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£35 Million Aerospace Centre For University Takes Flight

LEADING architects CPMG have designed a state-of-the-art research centre at Cranfield University that will change the design of future aircraft.

The £35 million Aerospace Integration Research Centre (AIRC) will bring together academic research and testing of new ideas by co-investment partners Rolls-Royce and Airbus within a purpose-built environment.

Groundwork has begun for the three-storey building, that includes an open laboratory space with a 40m clear span, capable of housing large airframe integration projects, presentation and visualisation spaces alongside state-of-the-art simulation facilities. Researchers and engineers from Cranfield, and its partner companies, will be working closely together in an open plan office environment on the top floor.

Hugh Axion, design director at CPMG said: “We were thrilled to be selected by Cranfield University to design and deliver this unique project. The new building will bring researchers and manufacturers together to help drive forward innovation in engineering and design – not only is this a significant development for the university, but for the future of manufacturing in aerospace and transport.”

The public face of the building is provided by a glazed triple-height ideas centre at Cranfield University that will change the design of future aircraft.

“The AIRC project’s £35 million funding consists of co-funding from Airbus and Rolls-Royce, HEFCE (the Higher Education Funding Council for England) and investment from Cranfield itself. ISG has commenced work on an £11.5 million project to create a luxury private members’ club in two historic Grade II Listed buildings in Devonshire Square in the City of London. The company is building a solid reputation in this niche sector after recently securing a scheme to convert the former West End branch of Hambros Bank into an exclusive private members’ wine club – ‘67 Pall Mall’.

Work to redevelop the 18th Century former East India Company warehouse and adjacent residential building in the Devonshire Square Estate, between Bishopsgate and Aldgate, sees ISG deliver a 58,000 sq ft full-service luxury lifestyle club for private members. SUSD is developer and architect for the project with Brian Clivaz, interiors by renowned specialist March & White and cost consultant is EC Harris.

Peter Kilby, divisional managing director for ISG’s Hotels and Hospitality division, said: “This project strikes the perfect balance of introducing contemporary and sensitively designed elements to the historic architecture of Devonshire Square, creating an exclusive private members’ club that will prove a real asset to the area. Realising the vision for this technically complex and demanding project saw us once again drawing on our historic building expertise and high-end delivery credentials to ensure a successful outcome.”

www.isgplc.com
Mapei Unveils Its Exclusive London Showroom – Mapei World, London City

Mapei, the world’s leading manufacturer of adhesive and chemical products for the construction industry is pleased to announce the opening of its UK Showroom based in the architectural design area - Great Sutton Street, Clerkenwell, London.

The impressive Showroom, designed by Marco Manzoni from Mapei SpA, was unveiled to key customers on Thursday 2nd July and was officially opened by Adriana Spazzoli, Operational Marketing & Communications Director and Veronica Squinzi Global Development Director, together with the Mapei UK Joint Managing Director’s Phil Breakspear and Mark Louch. To celebrate the opening the Italian Ambassador Pasquale Terracciano came to show support and Guest Speaker Lord Digby Jones of Birmingham Kt, was invited to provide insight into the future of the British and European Economy.

The showroom is a first for the Mapei Group and demonstrates the relationship between Manufacturer and Architect, from technical expertise and innovation, to providing bespoke project solutions in the UK and internationally.

Each of the 15 product lines is displayed in the Showroom through a series of textured samples and prestigious project references, accompanied by installation videos and supporting literature; offering Architects, contractors and designers alike a comprehensive guide for specifying Mapei products. Mapei’s Specification and Technical Teams are on hand throughout the year together with the training team, to provide practical and theory based guidance on the selection, installation and maintenance of Mapei products - through a calendar of dedicated CPD presentations. The technical CPD presentations cover a range of topics such as; Fast Track Screeds, Avoiding Ceramic Tiling Failures, Sub Floor Preparation and Successful waterproofing and many more.

The showroom has been fitted out using a range of Mapei products; in particular the floor and walls have been finished with Ultratop Loft - a new highly decorative, unique wall and floor coating, suitable for residential, commercial and industrial applications. The CPD presentation room has been fitted with pre-finished wood flooring adhered with Ultrabond Eco S955 1K.

The showroom promises to be a centre of excellence for Mapei, providing hands-on, practical and informative support throughout the entire specification process.

For more information on events, training dates and CPD presentations subscribe to Mapei UK’s Newsletter, details can be found on www.mapei.co.uk. For any further queries please email info@mapei.co.uk or tel. +44 (0)121 508 6970.

Enquiry 1
One Month To Go Until Solid Wood Solutions

With less than one month to go until this year’s Solid Wood Solutions, places are running out! Being held on September 16 2015 at the Inmarsat Conference Centre, London – packed full with industry pioneers – Solid Wood Solutions is a one day conference and exhibition that creates the ideal networking opportunity for construction professionals looking to create new connections in sustainable design and construction. If you are interested in finding out about record-breaking, engineered timber structures, as well as other innovative projects and products in the solid wood sector, then this is an event not to be missed.

After last year’s Solid Wood Solutions was declared a success by attendees and with structural timber buildings reaching new heights of up to 10 storey in the UK – this year’s Solid Wood Solutions could not be more relevant to today’s industry. Wood is making further advances and continues to push boundaries within the construction industry - clients, engineers and contractors are now realising the extent of where this strong, sustainable, structural material can be taken.

With sustainability and offsite construction high on the building agenda - Solid Wood Solutions is the essential event to hear first-hand from industry leaders and innovators. Wood may be one of the world’s oldest building materials, but it is now also one of the most advanced.

This one day conference and exhibition will showcase the very best in engineered timber by creating a platform for the industry’s innovators to present some of the most prestigious projects from across the UK and Europe. As engineered timber is one of the fastest growing modern methods of construction, this event is designed to inspire through innovation.

Tickets are just £125 +vat. Book now to avoid disappointment: www.solidwoodsolutions.co.uk/book

Enquiry 2

Notes from the Comar design team...

Latest Thermal Break Technology Produces the Next Generation of Windows.

Comar’s Design Team brief was to specifically meet architectural demands; low U-values, matching slim sight lines for both the casement and tilt/turn windows, large glazing pocket for acoustic glass, Secured by Design and large sizes. For our fabrication and contractor partners, performance with built in fast-track fabrication and installation.

The technology from the Comar 9P.i system has been incorporated into the Comar 5P.i window range. This ensures the Comar 5P.i Advanced Casement and Tilt/Turn window system integrates seamlessly into Comar 9P.i framing and creates the option for standalone high performance windows, up to 2.5m high with U-values as low at 0.77. BIM Models available at Comar Partners: www.comar-alu.co.uk/login.

For more information about Comar5P.i ADVANCED please contact us:
Tel: 0208 8685 9685
Email: projects@parksidegroup.co.uk
Web: www.comar-alu.co.uk
Enquiry 3
**Bauder Strikes Gold Once Again With Investors In People**

Flat roofing specialists Bauder have once again been awarded the prestigious Investors In People (IIP) Gold status, which recognises high performing organisations that put their people at the heart of their success.

This is the second time that the company, based in Ipswich, has been awarded the highest accreditation of Gold, an accolade that is awarded to only 7% of applicants each year, which is particularly impressive considering over a third of the UK’s workforce used IIP this year.

Now in its 24th year, Investors in People has long been acknowledged as the most successful framework for business improvement through people, and its accreditations are regarded as a mark of real organisational excellence around the world. The primary objective of IIP is to optimise workforce performance by championing best practice in people management and equipping organisations with the tools to succeed. www.bauder.co.uk

Enquiry 4

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**Cavity Trays Latest Building Envelope Solutions At The Build Show**

The longest-established company in its specialised field and the only cavity tray company in the UK, awarded European Technical Approval is displaying its latest products at the Build Show. Cavity Trays of Yeovil has a history dating back to the 1920’s and its approved products are accompanied with a performance warranty.

The latest updated Type X cavity tray for gable abutments provides a swift and effective way of arresting and controlling rain penetrating masonry above a sloping abutment. Being launched at the Build Show is a reveal face closer that permits full fill insulation to be continued unpunctuated to the reveal face. It provides a novel way of eliminating the need for separate insulating elements being required within a fully insulated cavity wall that is able to meet the thermal requirements demanded. The Cavity Tray stand number is B3/204. www.cavitytrays.co.uk

Enquiry 5

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**Everbuild – A Sika Company Expands Their Powdered Tile Adhesive Range**

Everbuild – A Sika Company are thrilled to be expanding their array of powdered tile adhesives by introducing four new products to the popular range. The key product within the new range is Lightweight Extra Floor and Wall Tile Adhesive, a multi-purpose product created from a unique lightweight formula which can be utilised as a thick, thin or pourable adhesive. One 15kg bag can cover the same area as a standard 25kg bag. This product is also dust reduced and made from an eco-friendly formula containing approx. 50% sustainable raw-materials.

Also in the range is Standard Set Tile Adhesive, a cement based wall and floor tile adhesive with excellent adhesion and non-slip properties, formulated to give a longer open and working time.

Large Format Tile Adhesive is a synthetic resin-modified thin bed adhesive that is specifically formulated for binding large format ceramic, vitrified, porcelain and stone tiles to walls and some floors and finally a FBR Adhesive which is a pourable thick bed adhesive for bonding large format tiles to floors in highly loaded areas. www.everbuild.co.uk

Enquiry 8

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**Wrightstyle Achieves ISO 9001 Certification**

Wrightstyle, one of Europe’s leading suppliers of steel and aluminium advanced glazing systems, has been certified to ISO 9001 with the British Standards Institute (BSI). BSI has been certifying organisations for their quality management systems since 1978, and is a globally accredited certification service, approved by a wide range of international standards bodies including the United Kingdom Accreditation Service (UKAS). The ISO 9001 certification, the world’s most widely recognised quality management standard, was awarded for “the manufacture and supply of specialist glazing systems” – and covers every aspect of Wrightstyle’s business from quotation through to the final supply of fully fabricated systems.

The company has always provided a high level of customer service with quality products, with significant investments to develop market-leading systems to mitigate against fire or terrorist threat. Wrightstyle operates in a global market and supplies its systems worldwide. ISO 9001 requires continued external and internal auditing, with trained internal staff providing continual review and assessment, and to identify areas for further improvement.

“This certification means that customers and suppliers can be assured that we are committed to excellence in everything we do,” said Denis Wright, chairman of Wrightstyle. “It means we can effectively operate as an extension of our customers’ supply chain for the fabrication and supply of our specialist glazing systems, meeting their requirements throughout the project process,” he said. www.wrightstyle.co.uk

Enquiry 9

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**“Spaces” - New Digital App From Pressalit Care Inspires With Bathroom Layouts For The Less Abled**

“Spaces” is a new digital app from Pressalit Care to inspire and assist architects and specifiers when designing bathrooms for the less abled. With virtual room sets created for applications within a hospital, assisted living facilities, a hotel as well as a private home, each is illustrated with layouts and bathroom elements most suited to the environment.

The app shows the differing degrees of adjustability, offering the optimal bathroom layout with space requirements, specification and installation details for each suggested Pressalit Care product.

The BBA approved Pressalit Care CPD seminar, Best Practice in Accessible Bathroom Design forms part of the BBA core curriculum under design for accessibility. The free Apple app is now available and an Android version will be released soon. The web version is available at http://en.pressalit.com/flexible-solutions-for-kitchens-and-bathrooms/spaces/

As well as presenting specific bathroom layouts with space requirements, specification and installation details for each suggested Pressalit Care product, the app shows the differing degrees of adjustability, offering the optimal bathroom layout with space requirements, specification and installation details for each suggested Pressalit Care product.

www.pressalit.com

Enquiry 7

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**Caesarstone Collaborates With Designer Rona Meyuchas-Koblenz For London Design Festival 2015**

Caesarstone and Rona Meyuchas-Koblenz from Kukka design will present an exclusive composition of surfaces and tables at the Thirty Four Project installation at TENT London, 24 - 27 of September 2015.

The leading manufacturer of premium quartz surfaces, Caesarstone will collaborate with Rona Meyuchas-Koblenz from the British design house Kukka on the creation of the Thirty Four Project at Tent London on view from the 24 – 27 of September 2015.

This exhibition promotes Caesarstone’s 2015 Supernatural Series through an innovative re-interpretation of surfaces and tables. These will be presented using the 1941 pure white colour from the colour palette as a primary source of inspiration.

Modern and geometric in their design, the exhibited surfaces and tables are inspired by manufacturing techniques, quartz structure and Caesarstone surfaces. The exhibition’s name, Thirty Four, was created in reference to the unique palette of 34 colours within the Caesarstone 2015 Supernatural Series. Designer Rona Meyuchas-Koblenz, originally inspired by the 1941 colour - the epitome of the whole collection - was then further captivated by the additional tonalities of the 2015 Supernatural Series colour palette, which she then included in the overall tables and surfaces’ composition.

Elfi Figgis, VP marketing of Caesarstone, emphasizes: “Caesarstone aims to inspire and challenge the creative world to use its surface materials in innovative ways. We are proud to be a part of London Design Festival and excited that Rona Meyuchas-Koblenz, again, chose to use our product in her design.”

www.caesarstone.com

Enquiry 6
at:length
sounding board
More Work = Guess Work

www.aico.co.uk

SURTME LE DIFFERENCE!

No matter the manufacturer, smoke alarms will be fitted with one of two different sensors – Optical or Ionisation.

Optical alarms are ideal at detecting large particle smoke from smouldering fires typical of those involving furniture and electrical goods. They are less likely to react to the type of invisible smoke produced by cooking fumes, making them ideal for circulation spaces such as hallways close to kitchens and landings. However, they can react to steam, so should not be located too close to bathrooms.

Ionisation alarms react well to the almost invisible smoke produced by fast flaming fires, most often caused by clothing or papers. They are sensitive to cooking fumes, so shouldn’t be used anywhere near a kitchen. Despite being the most popular alarm – most likely because they are the least cost – they are generally best left to bedrooms.

A further alarm type is available - Heat alarms. These don’t detect smoke at all, but instead react to temperatures of 58ºC or over. A heat alarm should only be used in a kitchen or garage, and only as part of a five alarm system that also includes interconnected smoke alarms.

Here’s a useful graphic to clarify where each alarm type should be used:

STANDARD PRACTISE

Alarm installation is guided by Building Regulations and BS 5839-6:2013 (the standard for domestic smoke alarm installations) which clearly identifies both Grades of alarm system to use and Categories of protection.

Grades are the type of alarm system to be fitted. Grade D is the most common for domestic properties, although larger properties may require a different Grade of alarm system. Grade D requires one or more interconnected mains powered smoke alarms (and heat alarms if required), each with an integral stand-by supply. The back-up supply can be from a rechargeable Lithium battery or alkaline battery.

Interlinking the alarms is essential as it provides an earlier warning for residents and the best chance of escape. When one alarm goes off, all the other alarms on the system activate – and there’s little chance of the occupant sleeping through that noise! Interlinking can be achieved through hardwiring or by using wireless interconnection technology, such as Aico’s RadioLINK, which is increasingly popular in new builds as it allows for a more flexible system; last minute changes to building layout can easily be accommodated. Furthermore, buildings with concrete ceilings and unusual layouts are readily accommodated with these systems.

Grade F systems using battery powered alarms only are still permissible in certain existing properties, but we would advise against these because of the issues caused by residents not replacing the batteries.

Categories are the level of protection afforded by the smoke alarm system. This will generally be dependent on a risk assessment of the property and its occupants. The categories range from High (Category D1) through to Minimum (Category D3) protection. For those unsure, Aico recommends Medium protection (Category D2) for the majority of installations. The level of protection required will dictate the number of rooms to be protected with an alarm, as laid out in BS 5839-6:2013.

DOTTING THE I’S

If you are in doubt as to what alarm type you should use (e.g. where the bathroom is close to the kitchen or where there is an open plan kitchen) then there’s the Multi-Sensor to the rescue.

A Multi-Sensor combines optical and heat sensors in the one alarm unit and has built-in intelligence which enables it to not only monitor the signals from both sensors, but also to interpret them. This allows it to detect all different fire types, from fast flaming through to slow smouldering, and provide the best possible protection to residents. Yes, it’s pricier than a single sensor alarm but then you get double the sensors, plus in-built intelligence.

ONE STEP BEYOND

To really get in grips with fire alarm systems and all they have to offer, you might want to consider a dedicated training scheme to ensure your contractors are fully up to speed in best practice and the latest guidelines and regulations. There are a number of these available through colleges and also from manufacturers, including ourselves with our AFPTIS scheme which has now trained over 10,000 contractors!

There are also plenty of resources out there to help with the alarm selection process, including books, apps and web sites. Aico has a wide range of these including our Electrical Contractors Handybook, our online Smoke Alarm Specification Selector at www.aico.co.uk and a recently produced short YouTube animation (www.youtube.com/user/aicoalarms) to help further explain what alarms to fit where.

Fitting the right alarm type is fundamental to a successful smoke alarm installation. If you’ve done your job properly by fitting a quality mains powered alarm with the appropriate sensor for the alarm’s location, there is no reason why you should hear back from the home owner for the life of the alarm.

A wholly owned subsidiary of EI Electronics, Aico is a market leader in residential fire and CO protection in the UK. All Alarms are designed and built by ourselves with our AFPTIS from manufacturers, including ourselves through colleges and also from contractors.

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Fixing The Foundations After The Scraping Of Zero Carbon Homes

www.kingspantimbersolutions.co.uk

Last month the Treasury announced the scrapping of the zero carbon building standards. The statement was presented within detailed documents, published as part of George Osborne’s economic productivity drive called, ‘Fixing the Foundations.’ The plans have been received with a wave of disappointment from across the industry. Businesses throughout the UK have been investing heavily, for the best part of a decade, in preparation for these future standards. For example, £4.8 billion – including £3.2 billion of public funds – was invested in the AJPA project, developing and applying materials to create low carbon homes, now to be told that these standards will no longer be implemented. On the back of this announcement the Green Deal cashback scheme was also axed – shipping further away from the government strategy on dealing with high energy bills through home energy efficiency.

The transition strategy to a low-carbon economy presented our industry with great aspirations for growth. Environmental considerations would help transform how buildings are constructed, what materials are used and the methods employed. I believe that we are now on the cusp of the predicted ‘sea-change’ with UK power generation in need of a significant upgrade. The better buildings to minimise the environmental impact of high energy demand reducing energy costs for occupants and the energy poverty that is becoming increasingly common.

The holistic approach of building to high standards now and facilitating the upgrading of existing stock now and building regulation and financial instruments is the correct way forward. Our industry has proved time and again that creating sustainable homes is not more time consuming. In fact, it is actually quicker and more efficient to manufacture, deliver and assemble a high-quality, low-carbon timber frame building than build one onsite with lower thermal insulation created from materials which directly contribute to increasing carbon emissions. In this regard timber holds a unique position in the sustainable material agenda and one which is available to rich and poor economies alike. It is a global material supporting a solution for a global problem. It isn’t by chance that the majority of the world’s population live in timber base dwellings.

The zero carbon homes target is just one of many policies from the government’s plethora of promises and undoubtedly the recent reversal of Carbon limiting policy is unlawful. We are only two years into the government 2025 strategy – a strategy which states the requirement for the construction industry to reach a 50% reduction in carbon emissions by this date – this is now becoming further out of our reach. This abrupt decision also comes at a time when the UK should be taking strong action on climate change ahead of the UN conference in December this year. Particularly in light of recent declarations by President Obama’s administration, if we are to maintain credibility within that forum. Whatever the short term solution - there is overwhelming evidence from across the scientific community of the genuine threat that CO2 poses to this country and to our world. This is something that cannot be overlooked.

Without even getting into the bigger scientific issues - the compounded problem of lack of delivery of housing stock during the recession now needs to be reversed and it isn’t just the volume of houses that must be increased but the quality. Significant increases in home building have always been government inspired and this is still the case today. By announcing this policy change, the government seem to be saying loud and clear that energy efficiency, when it comes to building new homes, is not going to be a priority and that production of short term ‘cheaper’ homes is taking its place. The fact of the matter is, a future on energy efficiency may reduce initial build costs but not by much compared to the longer term costs to society and national energy demand. Indeed it is exactly these issues that drove the development of the green deal to tackle poor performance in the existing housing stock.

It is regrettable that zero carbon homes policy has been pushed aside and in the long term this will ultimately cause issues in a range of different areas. The government are going to find it challenging to ‘fix the foundations’ if it keeps digging holes for future generations to fall into.

Kingspan Timber Solutions will continue to keep energy efficiency as a key factor in all of our projects. We recognise the value of low energy homes to the British economy and will continue to invest and innovate in this area. Part of the reasoning to scrap zero carbon homes was that it was an unachievable target that would be costly to the industry. This is something that I strongly disagree with. As a nation we need affordable, well designed and energy efficient homes that address the significant issues of fuel poverty and climate change – particularly within the social housing sector. This combination of requirements play to the strengths of timber frame and structural insulated panel systems (SIPS), which deliver a sustainable solution.

Kingspan are currently delivering a Self Build Live event which will showcase the first ever Passivhaus show home – demonstrating on a real time basis, the value of creating a home at such a low energy standard. A Passivhaus building requires very little energy for heating or cooling at the same time as providing a high level of comfort to the occupants. Self Build Live will allow visitors to attend and access all-areas of the build project. This gives attendees the opportunity to view the site at various stages throughout the build and see the new show house come together. (www.selfbuildlive.com for further information)

Author: Ian Loughnane - Business Unit Director of Kingspan Timber Solutions
Tony Gittings, of water heating product manufacturer Rinnai, argues that the industry is in dire need of a central body or council to co-ordinate the burgeoning weight of new and pending standards, legislation, Codes of Practice. This includes emerging support technologies such as BiM which needs clear and concise communication to the marketplace.

Within the next 10 years the HVAC industry could change out of all recognition as we face an unprecedented set of challenges here in the UK and Europe. The industry is facing the relentless drive to ever greater energy efficiency and lower emissions – all in line with the UK’s legally binding carbon reduction target of 80% CO₂ (on 1990 levels) by 2050.

The UK government and European commission’s growing agenda for the enablement of the greening of industry has resulted in the emergence of new Building Regulations, green technology accelerators such as RHI and the commercial green deal. Also part of this is the introduction of new technologies, such as BiM, designed to unlock more efficient ways of working at all stages of the project life-cycle. And there is more – the implementation of Energy labelling to energy related products across the HVAC industry is currently underway.

The regulatory horizon will see amendments to the Building Regulations; the introduction of energy labels for water heating equipment; the tiered approach to emission reductions taking full effect from 2015 and beyond (under the guidance of ERP) thus continually driving efficiencies and emission reductions.

There is such a blizzard of mandatory information that it is a job in itself to keep up with it all - and all in addition to maintaining and servicing existing customers and, winning new contracts.

There is a pressing need, I believe, for complete and transparent harmonisation of key product parameters and measurements to ensure simple and accurate communication. This need can be answered in the form of a centralised body - or council of existing bodies and organisations - which can co-ordinate all the information swirling around on industry topics which are of such major importance.

The body or council - whichever wishes to take up the baton - should represent the information needs of the contractor, consultant, end-user, and property owner and manager. There is an overwhelming need for one recognised source delivering clear and concise information on all current and impending legislation.

Manufacturing corporations can also make a difference bearing in mind that the marketplace needs ready-to-go products that obviously meet and exceed all existing legislation as well as pending legislation and new practises. This is where innovation is critical and manufacturers should truly commit to the research and development of new products and methods to make installation quicker and easier, and product performance better and more efficient. We cannot continue trying to wring the last vestige of life from modes of seriously outdated provisions of water heating in the commercial and residential arenas, not in today’s mercurial marketplace.

I believe that the industry needs a single body for all the information needs. We would be readily prepared to financially support such an initiative. We can supply a value-added solution for today and the future – now.
at:source
new products & services
Probably The Best Saltless Water Softener In The World

People have been copying Aquatiere’s saltless water softeners over the past few years and have achieved limited success. Unfortunately the customer who expects ‘soft water’ was often disappointed by the fact that the softener did not perform as they expected.

Aquatiere was the first UK company to use pre-crystalisation resins such as TAC and WAC to stop scale forming in pipework. They expected.

People have been copying Aquatiere’s saltless water softeners probably the best saltless water softener in the world.

New Video Highlights How To Reduce Energy In Your Building

A new video from Mitsubishi Electric shows how the company took its head office from an ‘E’ to a ‘B’ energy rating and offers advice on how other companies can do the same. With tough legislation focusing attention on energy use in the built environment, how we heat, cool and ventilate our buildings is coming under scrutiny as never before.

“We’ve been on an eight year journey and one of the things we are saying in this video is that any business could and should be planning to improve the performance of their buildings”, explains Russell Jones who hosts the video. “Just like any other company we have had to make a strong business case for each new piece of equipment, but the fact that we have improved so much and have significantly reduced running costs shows the advantages that can be gained”. The video can be viewed on the company’s dedicated YouTube channel: https://youtube.com/mitsubishi-electric

Flexible Pressure Booster Systems From Wilo

Supplying water reliably in some buildings can be a real challenge where the fluctuating water consumption requires very flexible systems. Modern pressure boosting systems from Wilo UK ensure that there is a fully automatic water supply and pressure boosting considerably improve the cost balance.

State-of-the-art systems like Wilo-SiBoost Smart Helix EXCEL, Wilo-SiBoost Smart Helix VE or Wilo-SiBoost Smart (FC) Helix V are currently used in department stores, residential, office and administration buildings. There is a fully automatic water supply all the time.

The efficiency values of the pumps in the Wilo-SiBoost Smart Helix EXCEL, Wilo-SiBoost Smart Helix VE or Wilo-SiBoost Smart (FC) helix V are currently used in department stores, residential, office and administration buildings and as well as in industrial systems very effectively. Wilo systems with high efficiency pumps for full automatic water supply and pressure boosting considerably improve the cost balance.

Troldtekt® Wave Wins Top German Architecture Prize

Within a short timeframe, Troldtekt wave has achieved more international acclaim – this time with its new wave-shaped acoustic panel winning an ICONIC AWARD from the German Design Council. Troldtekt’s new Troldtekt Wave has been given a great reception by international designers and architects. In June, this acoustic panel won a Green Product Award and now, the German Design Council has decided to honour it with an ICONIC AWARD 2015 in the category Product-Wall, Floor, Ceiling.

The ICONIC AWARDS celebrate visionary architects, innovative and sustainable products. The jury explained its choice of Troldtekt describing Troldtekt Wave as a sculptural wall and ceiling panel whose natural and simple aesthetics harmonise well in many different types of rooms.

Spa-Like Cleanliness Within A Sleek And Streamlined Exterior

Winner of two prestigious design awards, for its outstanding product design concept with sophisticated technology, the Geberit AquaClean Mera takes the comfort and convenience of a shower toilet to a whole new level. Characterised by high-quality materials, smooth lines and a seamless finish, the chrome surfaces on the design cover create an impression of the WC floating in front of the wall.

This latest shower toilet from Geberit has the appearance of a standard WC on the outside, while a wealth of technological benefits are neatly concealed within. With a discreet orientation light activated by a proximity sensor serving as a guide at night, ideal for hotel bedrooms where the glare from an overhead light can disturb a good night’s sleep. Promoting good hygiene levels in the hotel bathroom too, the WC lid opens and the seat begins to warm up automatically on approach.

The shower toilet technology is the very latest patented (Whirlspray from Geberit), which uses two nozzles to provide a targeted, thorough and exceptionally pleasant clean with water at body temperature. The separate lady wash, meanwhile, delivers a particularly soft shower spray when activated.

Geberit AquaClean Mera also offers an optimal drying performance, with the airflow temperature gradually reducing as the skin is dried. A low-noise odour extraction unit eliminates unpleasant odours from inside the ceramic pan leaving the room smelling fresh and clean after every flush.

Schell, the German manufacturer of washroom solutions and fittings, has appointed Bedfordshire Bathroom Distributors (BBD) as a UK distributor for its WRAS approved angle valve range. Schell’s angle valves present a visually appealing solution for connecting showers, WC’s, bidets and taps to the water supply. Gerry Deller, Managing Director of BBD, has built his business on supplying quality fittings and exceptionally pleasant clean with water at body temperature. The shower toilet technology is the very latest patented (Whirlspray from Geberit), which uses two nozzles to provide a targeted, thorough and exceptionally pleasant clean with water at body temperature. The separate lady wash, meanwhile, delivers a particularly soft shower spray when activated.

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Enquiry 11

Enquiry 12

Enquiry 13

Enquiry 14

Enquiry 15

Enquiry 16
MX Extends Shower Range

MX Group have extended their ranges of shower products including an extension to both their thermostatic and electric shower ranges, their accessories ranges, and added a range of taps and mixers and a new range of electric water heaters to their extensive portfolio of showers and shower related products.

In addition the company has launched its brand new catalogue – The MX Collection - an impressive brochure that is a must for anyone working in the specification or installation business. The catalogue covers every facet of the company’s product range through thermostatic mixer valves, electric showers, shower trays, shower enclosures and bath screens, shower accessories and brassware. www.mx-group.com

Enquiry 17

LG Launches New Multi V S

LG Electronics (LG) has released its latest variable refrigerant flow (VRF) solution, the Multi V S. Designed for small offices and retail stores, the compact, lightweight model offers effective heating and cooling as well as considerable installation flexibility. Multi V’s rivalry fills the gap between Multi Split systems and large VRF systems. LG’s new VRF system boasts superior energy efficiency, as evidenced by a 3.95 energy efficiency ratio (EER) in cooling operation and a 4.25 coefficient of performance (COP) in heating operation. Visit http://partner.lge.com/uk or email LG at HVAC.marketing@lge.com.

LG's new VRF system is also a winner of the Greenpeace Cool IT Challenge. The Multi V S is designed to help companies meet the growing demand for efficient, flexible, space-saving cooling and heating solutions, and to help improve the energy efficiency of buildings.

For more information contact LG at HVAC.marketing@lge.com.

Enquiry 18

Smooth, Silky And Sensuous – It Could Only Be From Compac

Dark Concrete is one of four stunning quartz colours just launched by COMPAC, innovators in surface technology for over 40 years. Inspired by America’s loft culture, Dark Concrete is part of COMPAC’s New York Collection, a unique quartz worktop range that explores an industrial and urban aesthetic which will change the way we think about worksurfaces.

Smooth, silky and sensuous to the touch, the New York Collection will excite the senses by offering the opportunity to create contemporary kitchens that replicate the style and uniqueness of loft living in the ‘Big Apple’.

The New York Collection consists of seven urban colours including new additions: Dark Concrete, Ice Concrete, Beige Concrete and Beige Cement. All with exclusive finishes, depth of colour and definition of grain – all durable, hygienic, easy to clean and maintain - www.compac.eu

Enquiry 21

SCOTTISH WIDOWS INVEST IN KEMMLIT LOCKERS

Scottish Widows Investments have selected Kemmlit lockers for their impressive new London offices. The lockers are manufactured from galvanised steel with a scratch and abrasion resistant stove enamelled finish and can be configured to provide a wide range of options.

For this project, architects Morrow & Lorraine specified Kemmlit’s Type 522 lockers which offer integrated air duct ventilation and clothes hanging/drying facilities for those employees who cycle or jog to work. www.kemmlituk.com

Enquiry 19

GLAMOROUS VICTORIA JOINS RAK’S TILE COLLECTION

A new polished ceramic wall tile range has joined RAK’s Tile Collection. Victoria includes a plain ivory and matching décor tile, that can be used in combination to create a stunning, chic aesthetic. The range is ideal for design-led bathroom schemes, and is the perfect solution for the Scratch resistant, and non-porous properties.

For a novel way to revitalise hotel bedrooms, bathrooms, corridors, meeting rooms, bars or restaurants, Interior Film from David Clouting is the perfect solution. Interior Film is a CE Certificated self-adhesive, decorative film designed for the hotel and leisure sectors where speed of redecoration is often critical. Interior Film can be applied to almost any room surface including: wood, metal, plaster board, plastics and concrete. This enables feature walls, doors, furniture, skirting and architrave to be attractively and quickly transformed with minimum disruption and at low cost. Available in a range of designs and finishes including: Exotic woods, Leather effect, textured metals and Natural stone (Fabric featured), the Interior Film range is now available to view on the BIMSTORE website. www.davidclouting.co.uk

Enquiry 23

INTERIOR FILM FROM DAVID CLOUTING – FOR THE PERFECT ROOM SURFACE

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Enquiry 22

Compac quartz is made from 93% natural quartz - one of nature's strongest minerals, providing the ultimate combination of form and fuction, allowing for a durable, practical and practical surfacing material with its stain, scratch, and non-porous properties.

www.caesarstone.co.uk

Enquiry 20

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Enquiry 22
Introducing Mast Screening And Shelving Systems From The Shopkit Group

Mast is a versatile range of screens and partitions available in different heights, materials and with various fixing options to suit most interior applications including retail, exhibitions, offices, receptions, cafés and domestic installations.

It is elegant and adaptable and has the unique concept of combining the strength and simplicity of rigid posts to support tensioned cables. This then allows the Mast System to provide an easy, cost-effective and durable way to create fixed, freestanding and temporary screening/room dividers with a virtually limitless range of shelving and accessories.

The Mast posts are available in various heights and can support single or double cable setups on one or both sides, allowing for sophisticated combinations of screening, graphic panels and shelving that can be used as stand-alone units or as part of a multi-display system and can easily incorporate Shopkit’s TZ low-voltage lighting range. Retail units / Shop in Shops can be produced from the different Mast systems, with display shelves available in a variety of materials and finishes to co-ordinate with other elements within the retail environment.

Made to Measure and Installation options available

Mast offers a wide standard product range to meet most requirements and Shopkit also offer a custom design / manufacturing service to meet all other individual needs. Delivery and installation is possible on all elements - quotations will be supplied on request. www.shopkit.com

Enquiry 25

Rundum Meir, High-Tech And Classic Handmade Garage Doors

Rundum Meir specialise in high quality, standard and custom made, exterior door systems that are made in a range of beautiful materials including timber, copper, aluminium and glass. They offer a complete exterior door systems service - from survey and design to manufacture, installation and maintenance.

Rundum Meir work closely with architects and clients and pride themselves in their personal service and ability to provide design solutions to clients wishes. Their exterior door systems have been used on listed buildings, award-winning new build, conceptual architecture, refurbishment projects and a high profile passive house.

Door applications have included open courtyards, boathouses, curved buildings, coach houses, over sized and undersized garages, underground multi-user, ventilated and security garage doors. Using Rundum Meir garage doors gives the specifier flexible layout options with almost any size door available. They use quality components and hardware. Manual or unique remote control operation is available. Door gear, door curtain and automation are provided as one package. www.rundumuk.co.uk

Enquiry 24
Comar SPA Advanced Window System

Integration is the key factor which underpins the latest new product launch from Comar Architectural Aluminium Systems. Their market leading Comar SPA Framing system offers fast-track semi unitised construction for floor to ceiling glazing, allowing tilth/tilt or casement windows to hang directly from the Comar SPA Frame as well as rebate doors. With the addition of thermal foam and triple glazing Comar SPA offers U-values down to 0.77, creating a future proof solution for their architectural, contractor and fabricator partners. Comar announce they have incorporated the technology from their Comar SPA system into the Comar SPA window range, and are now launching the Comar SPA Advanced Casement and Tilt/Turn window system which integrates seamlessly into Comar SPA, creating the option for standalone high performance windows. www.comar-alo.co.uk

Enquiry 26

Two New Products Enhance Schueco’s Sliding Door Offering

New from leading sustainable building envelope specialist, Schueco UK, are two products, SmartClose and SmartStop. Developed for use with Schueco’s range of sliding door systems, both products make the sliding door easier to operate. SmartClose makes the closing action effortless by converting the energy generated by the initial pull on the sliding door into momentum that carries the door smoothly along the length of its track until its final soft insertion into the frame. Schueco’s SmartStop employs a controlled soft braking action that allows the vent to be drawn smoothly along its track but brings it to a stop prior to closing, when it can be locked in the normal way. This makes the door safer and more user-friendly. SmartClose is mounted on the upper profile of the door, is suitable for vents weighing up to 400 kg. Both products are primarily designed for Schueco ASS 50 and ASS 70 HI premium segment systems. www.schueco.co.uk

Enquiry 30

Do Your Fire Doors Perform In A Real Life Situation?

A recent fire at a block of flats in Preston, Debyshire is the latest real life example to demonstrate the necessity of specifying the right fire doors for your new build or refurbishment works. Luckily, nobody was injured in the blaze, and leading door and window supplier to the social housing sector, Nationwide Windows, is proud to say that the fire doors it manufactured and fitted did exactly what they were supposed to do.

Chris Costall, Health, Safety & Environmental Manager at Nationwide Windows comments: “We are obviously very thankful that nobody was injured at the Preston flats, but equally pleased to say that our doors performed in exactly the manner they were supposed to do.” www.nationwidewindows.co.uk

Enquiry 29

Carbon Monoxide – And How A Window Could Help Save Your Life

It is the most common cause of poisoning death. You can’t see it. You can’t smell it. Yet it kills hundreds of people each year around the world. Carbon monoxide, or CO, is a deadly risk to health. It is also imperceptible without the right equipment. No doubt you have heard news stories of people dying from carbon monoxide poisoning. You are probably aware that it has a lot to do with badly-maintained gas appliances.

Why is it so dangerous – and how can windows make a difference?

In this short article we take a look at some important facts about carbon monoxide, before talking about some Roto products that can be used to form part of a safeguarding policy.

What exactly is carbon monoxide?

Although it can occur naturally, in this context carbon monoxide is produced by the incomplete combustion of fossil fuels. Fuels such as gas, oil or wood all contain carbon. Normally, when they are burned with a sufficient supply of oxygen, the carbon oxidises and becomes carbon dioxide (CO2). However, if there is insufficient oxygen, it is possible for the oxidation process to be incomplete and the result is carbon monoxide (CO).

Why is it so dangerous?

Carbon monoxide is highly poisonous to humans. When inhaled, it is absorbed into the blood much more readily than oxygen. From there, it binds itself to the haemoglobin in the bloodstream. This has the effect of reducing the oxygen-carrying capacity of the blood. Carbon monoxide victims die of hypoxic oxygen starvation. Exposure to less than fatal levels of CO can also cause permanent neurological damage.

Important things to check

There are a few basic checks you can make in the home from time to time to make sure there is no obvious cause of carbon monoxide or lack of ventilation.

- Look for sooting or discoloration and around gas appliances, including boilers and water heaters.
- Pilot lights and gas flames should burn blue. If yellow or orange, this is a sign of incomplete combustion and carbon monoxide may be being produced.
- Make sure flues and chimneys are clear and don’t contain leaks.
- Check that air vents in walls are not blocked.

Where do Roto products come into this?

It is highly recommended that you have a carbon monoxide detector in your home. There are many battery and mains-products devices on the market. Many are stand-alone devices that emit an alarm signal when CO is detected.

However, it is also possible to have a detector wired into a ‘smart’ home automation system. Roto’s electromechanical drive systems enable windows to be opened, closed and locked remotely. The drive units can be connected to a ‘smart’ system so that windows open or close in response to conditions, for example humidity, rain – or carbon monoxide.

Immediate ventilation

Therefore, you could have a system that not only sets off an alarm and warns you of carbon monoxide, but which also opens windows immediately in order to provide ventilation. The Otto E-Vec Drive is the ideal product for automated operation of Tilt/Turn and Tilt-Only windows.

Completely concealed

It is suitable for Timber, Aluminium and PVC windows and the drive unit is completely concealed within the window frame. When used with the Roto Designo concealed Tilt/Turn hardware, it creates a window on which there are no visible hinges or drive components.

The smart roof window

The new RotoComfort i8 roof window can also be connected to a smart automation system in exactly the same way. Featuring a completely concealed drive, the RotoComfort i8 opens significantly more quickly than conventional electric roof windows. With a maximum opening angle of 45 degrees, the window provides a good level of immediate ventilation. www.roto-frank.co.uk

Enquiry 31
at:source

Imago Lift & Slide Doors - Italian Style

With Latin flair and engineering that is designed to be both practical and beautiful, Imago Lift & Slide Doors have it all. Marco Zen, AGB’s sales manager for the UK and Ireland, talks about how Italian style is perfect for UK homeowners.

It’s almost 500 years since Leonardo Da Vinci painted the Mona Lisa that hangs in the Louvre. This stunning painting has lost none of its fascination over that time. But although seen as one of, if not, the greatest painters of all time, Da Vinci had many other sides to his professional life. And perhaps, it was precisely because he was such an exceptional mathematician, engineer and anatomist that made him a better artist. He understood that behind the beauty was the anatomy, it’s the thing that created the famous enigmatic smile. Fast forward four centuries and the Italian style is still leading the way with Modernism. Form and function. It strips out all the finery and leaves us with pure elegance.

Italians are still leading the way with Modernism. Form and function. It strips out all the finery and leaves us with pure elegance. And maybe it’s why more modern classics come from Italy than anywhere else in the world. Italian architect Luigi Caccia, who spent most of the 20th Century dedicated to designing buildings, furniture and household products, invented the famous enigmatic smile. Fast forward four centuries and the Italian style is still leading the way with Modernism. Form and function. It strips out all the finery and leaves us with pure elegance. And maybe it’s why more modern classics come from Italy than anywhere else in the world.

The Italians have been masters of simple elegance for many years. Perhaps the words of Italian architect Luigi Caccia, who spent most of the 20th Century dedicated to designing buildings, furniture and household products, invented the famous enigmatic smile. Fast forward four centuries and the Italian style is still leading the way with Modernism. Form and function. It strips out all the finery and leaves us with pure elegance. And maybe it’s why more modern classics come from Italy than anywhere else in the world.

So it’s no surprise that the Italians have a highly coveted design award. The ADI Design Index is the publication of the Italian Association for Industrial Design. It selects the best of Italian design put into production and displays them in a permanent exhibition. The ADI Design Index was first established in 1964 and includes some amazing designs from the last 50 years. Ferrari, Ducati and Maserati have all been winners. The finalists for the Compasso d’Oro award 2015 have been chosen. And Italian hardware company Alban Giacomo Spa, known as AGB has been listed for its Imago lift and slide hardware for timber doors. It’s the first time a lift and slide door has been recognised by them. Technology must be beautiful, it’s the philosophy at AGB and Imago is beautiful technology. With the slimmest timber frame on the lift and slide market, Imago has been designed to create a door with the widest glazed area available, so views overlooking stunning countryside or cityscapes aren’t broken up by individual door leafs.

The sliding door offers the pioneering Poseidon lock which provides maximum security levels. The hardware is installed flush to the frame so that it does not disrupt the aesthetic of the design. Imago features the Climatcheck threshold, manufactured from a fibre glass reinforced material which guarantees excellent thermal performance. A strong barrier against wind, rain and cold air. Imago doors are perfect for all weather conditions. It looks spectacular and has the natural movement of wood, but it’s also been engineered to be extremely energy efficient and secure. And that’s the point. Beautiful and practical.

Since launching Imago in the UK in June last year it’s already attracted a huge amount of interest from architects and designers. The simple download feature in the toolkit on www.chooseimago.co.uk makes it really easy to get all the technical information needed to have it specified at the early stages.

For installers who want to offer more product choices for customers, Imago is the perfect addition. It offers a very special alternative for people who have already invested in timber windows. And because it can be manufactured in any type of wood, it matches perfectly to other doors and windows. Imago Lift & Slide Doors follow the Italian style bible of simple elegance. It is an engineering masterpiece and it belongs on the design podium and in beautiful homes.

Enquiry 32

V5-1 Curtain Walling System Shortlisted for Prestigious Construction Industry Award

Innovation in façade design, manufacture and installation by GLASSOLUTIONS has been recognised by the judging panel of one of the construction industry’s leading awards programmes. The company has been shortlisted in the category of ‘Product Design Innovation Award – Building’ in the British Construction Industry Awards (BCIA) for its new V5-1 curtain walling system and its role in the creation of the Believe in Better Building for media giant Sky.

The 3000m² timber framed BREEAM ‘excellent’ building, located on Sky’s Osterley campus in West London, is an industry-leading community engagement and educational facility which is home to the Sky Academy Careers Lab.

GLASSOLUTIONS was commissioned to design and install the entire building envelope by Sky, who worked in conjunction with Make, including a centrepiece glazed façade on its main elevation for which V5-1 was the ideal choice. The award winners will be announced at a prestigious ceremony held in central London in October.

www.glassolutions.co.uk

Enquiry 33

SAM® Trimax Fascias And Soffits From Timbmet: Like Water Off A Duck’s Back

Timbmet, one of the UK’s largest distributors of timber and timber products, has added SAM® Trimax fascias and soffits to its extensive product portfolio. Providing enhanced dimensional stability, superior durability and strong fungal resistance, these fascias and soffits are especially suitable for use in outdoor environments where humidity, extreme temperatures and changeable weather conditions can be a problem.

Manufactured from Medite® Tricoya® Extreme, a highly durable engineered wood panel, these new fascias and soffits offer new possibilities and creative solutions for wood-based panel products in a wide range of secondary exterior applications. In addition to roofline installations such as fascias and soffits, the SAM® Trimax range is also suitable for cladding systems, external joinery and window components.

Durability tests have also shown Medite® Tricoya® Extreme to be a high performance material, highly resistant to swelling, shrinking and cracking. With a 50-year warranty offered on the core material and a 10-year warranty on the paint finish, SAM® Trimax fascias and soffits ensure longer maintenance costs.

New pre-finished white SAM® Trimax fascias and soffits are currently available from stock from Timbmet, with any RAL colour available to order. Cladding, window components and external joinery are also available to order.

New SAM® Trimax fascias and soffits from Timbmet combine the practicality and versatility of a wood-based composite panel with strength, insulation, machinability, light weight and ease of installation.

www.timbmet.co.uk

Enquiry 34

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www.timbmet.co.uk

Enquiry 34
at:large
the BIG pictures...
Caesarstone Unveils 5 New Colours For Autumn/Winter 15

Caesarstone has unveiled five, stunning new colours for this autumn/winter. Three of the colours – Statuario, Symphony Grey and Urban Safari – will be exciting new additions to Caesarstone’s pioneering Supernatural series of colours, whilst Raw Concrete, a semi-matt, putty coloured quartz and Vanilla Noir, a dramatically dark colour, will join the Classico Collection.

Launched just three years ago, Caesarstone’s Supernatural Series, with its focus upon emulating the aesthetic appeal and tactility of natural materials, and in particular, marble, has been exceptionally well received. The range is acknowledged as having set a new ‘blueprint’ for quartz and the new colours are being launched as a direct response to demand from retailers, designers, architects and consumers alike. As with Caesarstone’s existing colours, the new palette provides an incredibly realistic, yet highly versatile alternative to marble and natural stone that can be specified throughout the home to stunning effect.

Colours are perfectly in keeping with the current mood for muted, timeless shades – see the warm earthiness of Urban Safari or the cool, contemporary aesthetic of Symphony Grey. Vanilla Noir has a dark, opulent density that makes it perfect for industrially influenced kitchens, whilst Statuario with its elegant, soft grey veining will surely become as popular as Caesarstone’s 2014 hit, Calacatta Nuovo. Raw Concrete, meanwhile, belies its name with a warm, urbane appearance that is beautifully aligned with the current vogue for pared down, modern rustic room schemes.

A Refined and Sophisticated Engineering Process

As with all Caesarstone quartz, the new colours might embody the beauty and tactility of natural materials down to the very last detail, but that is where the similarity ends. The result of a refined and sophisticated manufacturing process, Caesarstone has championed the design and production of superior quality quartz.

Versatility, Durability… Peace of Mind

Unlike marble and many natural materials, Caesarstone’s quartz is completely non-porous. This means it can be used for myriad applications throughout the home – including within bathrooms, wet rooms and shower rooms. It is also so durable and resistant to wear and tear that it can be confidently used for flooring. And unlike marble, a spilled glass of red wine, olive oil or beetroot is unlikely to trouble a Caesarstone work surface. Ditto heavy pans, scratchy scourers and even ‘creative’ kids.

Chris Pepper, Caesarstone UK’s Business Development and Marketing Manager says, “We are really pleased to be unveiling these five, fabulous new colours. The Supernatural colours in particular offer the unquestionable appeal of marble and natural stone, but deliver so much more than simply aesthetic values – and it is this outstanding blend of style, longevity and durability that makes Caesarstone’s quartz such a superb specification for so many applications. These new colours are some of our most exciting and significant to date and we have been delighted by the early enthusiasm shown by customers.”

www.caesarstone.co.uk

Enquiry 35
A Burning Passion For Fire

The German premium manufacturer of tiling technology Spartherm proudly presents an exclusive range of bioethanol fireplaces branded ebios-fire® which are now also made available for the discerning customer in Great Britain. Made And Tested In Germany - In order to provide an optimum of customer service, the expansive range of ebios-fire® models comprises both standard and made to measure built-in fireplace models in almost any thinkable layout.

Great versatility, product safety and outstanding German quality are key values at Spartherm’s production facilities where all ebios-fire® models are originally designed, crafted and tested by passionate, skilled craftsmen. Test certificates issued by TÜV Germany further underline the outstanding safety of ebios-fire® bioethanol fires, which feature a wide choice of manual and automatic bioethanol burners.

Versatility Is Key - The ebios-fire® range of products is available in a vast variety of finishes meeting the requirements of architects and interior designers on an international level. Please visit www.ebios-fire.com or write to info@ebios-fire.com for further information. Spartherm – The Fire Company – www.spartherm.com

Enquiry 36

The Passion of Making

In 2013 a passion for great craftsmanship, respect for a fantastic design heritage and an urge for pushing boundaries led to the establishment of Overgaard & Dyrman and to the foundation of their workshops in Denmark. Overgaard & Dyrman values high-quality materials and significant details which reveals a complex and non-compromising design. Overgaard & Dyrman believe the most efficient way to increase the longevity of a product lies not only in the use of great materials and a durable construction, but also in the overall design and the attention to details.

Publishing their film ‘The Passion of Making’, which is shown on their website, Overgaard & Dyrman gives a glimpse of the crafting part of the creation of their Wire Dining Chair, showing the process, complexity and passion behind their debut furniture collection, the Wire Collection. A collection inspired by traditional saddle making techniques and metal work combined with the use of modern technology. The O&D Wire Collection includes a dining chair, a lounge chair, a lounge sofa, a coffee table and a bar stool in two heights.

www.oandd.dk

Enquiry 37
Mapei Wood Floor System Specified At The Beaumont Hotel, Mayfair

Mapei’s complete wood floor system has been used to install oak flooring at a new hotel in Mayfair, The Beaumont Hotel. Grand in style, the elegant hotel, which has a distinct Grade II listed Art Deco façade, was developed by Grosvenor Britain & Ireland, in partnership with renowned restaurateurs Corbin & King.

The interiors were designed by Richmond International and fitted-out by Chorus. Traditional fumed oak herringbone wood flooring was specified alongside Mapei’s eco system and installed, by AJK Wood Flooring, throughout all suites, bedrooms and public areas.

The hotel’s 1920’s Manhattan-style interior features over 1,300m² of FSC and PEFC-certified Weitzer Fumed Oak Parkett, which combines a classic design with a stunning dark aesthetic. To prepare the subfloor, Mapei’s low VOC primer - Eco Prim T - was specified to improve the adhesion of levelling compounds.

Mapei’s Ultraplan Renovation screed was then applied, prior to installation of the engineered flooring using Mapei Ultrabond Eco S955 1K— a single component isocyanate and solvent-free, sililated polymer-based adhesive.

For more information on the project and Mapei product systems, please visit www.mapei.co.uk, email info@mapei.co.uk or tel. +44 (0)121 508 6970.

Enquiry 39

THORS-DESIGN Upcycling

The fundamental idea behind Thors-Design furniture is that of upcycling. Rustic Azobe wood, sourced from decommissioned Danish wharves, is turned into simple and stylish designer furniture. The result is bespoke, hand-made furniture with a natural Nordic feel that retains the integrity, history and natural character of the wood. The original raw look of the wood is a result of its exposure to the natural elements for more than half a century. Not any two pieces of wood are identical – which makes each piece of furniture a unique work of art full of character and soul.

The Restaurant Show - The Conscious Hospitality Show - Olympia - Stand UG50’

www.thors-design.com

Enquiry 38
at:work
the latest project news
**JS Air Curtains Are Blooming At Cannon Hall Garden Centre**

The company’s quick response and cost effective products made JS Air Curtains the ideal retrofit choice to protect the customers from chilly drafts at Cannon Hall Garden Centre, located in the picturesque village of Cawthorne in South Yorkshire. JS Air Curtains suggested a cost effective and attractive Mini Optima. Offered in several lengths, the Mini Optima air curtain is available as a single or three-phase unit, making installation simple. Heating can be via LPHW or an electric heater, as in the case of Cannon Hall, and it is also available as an air only model. Adjustable outlets enable the airflow to be directed at an angle to give a tight seal across the doorway. www.jsaircurtains.com

**Green VM2ZNC For Perthshire Designer Home**

VM2ZNC PIGAMENTO Green Double and Single Lock standing seams have been used on the roof and façades in Leadhams, Jamieson, Rogers and hynd’s design of East Bankhead Farm, Monknie. Set in the open landscape of Mepal, Perthshire the house was designed as a contemporary barn with a distorted roof that responds to the gently rolling landscape.

The subtle zinc colour complements the rural environment while blending seamlessly with other envelope materials and has led to a Scottish Design Award for housing in a rural context and a RIBA Design Award www.vmznco.co.uk

**Marmox Thermoblock Specified For Affordable Passivhaus Project**

A development of 25 new properties for a leading social housing provider, located close to Minewater on the Bristol Channel, is making use of Thermoblock from Marmox in order to meet the very stringent airtightness and insulation standards demanded under Passivhaus guidelines. The project for Hasco Housing, is seeing Halall Construction Limited build a total of 25 houses to full Passivhaus requirements, while a further five also offer excellent energy performance. Thermoblock is available in several widths to suit different wall constructions and features miniature columns of concrete encased within high performance insulation. They can be used at upper floor levels and other locations as well as around the perimeter to the oversite.

The Site Agent for Halall Construction Limited, John Gray, commented: “The Passivhaus properties feature the use of 150 mm wide Celcon aircrete blocks up to floor level then the course of Marmox Thermoblocks and another single course of blocks above, which ultimately carries the timber frame. The outside of the buildings then features either local stone or render outside a further 200 mm thickness of Kingspan Kooltherm insulation. The Thermoblock is employed to help achieve the very low U-value, while the airtightness figure required is 0.6 (m²/K/W). The Project Architect at GCP, Mr Colin Powell, added; “Thermoblock is being used to break the thermal bridge between the sub-structure blockwork and the superstructure above; achieving a psi value of 0.007 W/m²K”. Each course of Thermoblock was bedded on mortar and jointed with Marmox Multibrand, the manufacturer’s versatile and easy to apply one-part sealant and adhesive. www.marmox.co.uk

**Steadmans Provides Roof And Wall Materials For Distillery In Remote Corner Of Britain**

Steadmans is raising a dram after supplying materials for maturation warehouses at a new malt whisky distillery on the island of Harris. Steadmans provided products for the roof and walls of the buildings on the edge of Loch Bunabhrainadha. These will be used by Island of Harris Distillers, after it begins operations this summer. They provided over 1,700 linear metres of 40mm thick A285 composite panels, in juniper green for the warehouses. This consisted of almost 980 linear metres for the roof and over 740 linear metres for the walls.

The company also supplied 750 linear metres of 24d parleys, over 500 linear metres of C sections, more than 50 linear metres of beams and 500 linear metres of fixings, plus furnishings and accessories. Steadmans’ output includes steel cladding, galvanised roofing sections, metal cladding, roofing products and fibre cement sheeting. www.steadmans.co.uk

**Compact High Pressure Laminate Finds Its Feet**

Hundreds of metres of compact grade High Pressure Laminate from Abet Laminati has been used to innovative effect at the new £20m Steven Swaminarayan Sakti Sanatan Mandal Temple in Kingsbury, London. As part of the design, Benton Plastics supplied Abet Laminati’s Decori Minimi 567 and 568 in 0.9mm in a Mandarin texture and 807 in compact grade in a SEL texture from the Colours range. The Decori Minimi range offers a moulded effect decor. This laminate was fabricated to produce innovative show lockers in both the male and female changing areas as well as shower lockers, cubicles and wall panelling in the sports complex and elsewhere. www.abetuk.com

**Coxdome Trade Range Sheds New Light On Technology At Essex School**

A six week contract carried out by a building company experienced in roofing work, comprised of a series of rooflights on an East London school upgraded to insulated, twin-skin units from the Jet Cox Coxdome Trade Range: offering improved natural daylighting as well as enhancing the all-round energy and weather performance. The work, at the All Saints Catholic School in Dagenham, was carried out by Forest Gate Construction earlier this year without any inconvenience to the school’s staff or pupils. Although the flat and barnel washed roof areas were in a generally good state of repair, the estates’ department responsible for the buildings’ upkeep took the decision to replace the existing rooflights over the computer suite and design & technology teaching space. This was due to the fact the existing units offered little insulation value and were coming to the end of their working life. A total of 38 of the 600mm x 600mm Coxdome Trade Range Rooflights, along with 300 mm high insulated upstands.

The double-skinned domes feature tough polycarbonate glazing which will resist physical damage as well as extremes of weather. The rooflights feature trickle ventilation on two sides to help maintain a healthy indoor atmosphere, through they are hinged for manual operation if increased airflow is required during spells of unusually hot weather. www.jet-cox.co.uk

**Coxdome Trade Range: offering improved natural daylighting as well as enhancing the all-round energy and weather performance.**

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**Enquiry 40**

**A Tale Of Two Parks**

Housubiodler Taylor Wimpey selected Redland’s Fowland Pantile roof tiles for two large scale housing projects in Norfolk to help ensure the developments blend in with the local vernacular. Redland developed the Fowland Pantile for the purpose of catering to the South East and East Anglican markets that favour a particular aesthetic when it comes to roofs. The classic single pantile shape provides a modern interlocking concrete format that guarantees robust, weather tight performance in all conditions. www.redland.co.uk

**Gregs Relies On Stertil Dock Products For Safety And Efficiency**

Stertil Dock Products has installed a series of loading dock houses for Greggs plc to ensure safe and efficient distribution from the Group’s bakery in Birmingham. Stertil Dock Products proposed replacement of the existing outdated installation with a series of 12 dock houses. Each dock house features a 6000kg capacity, 27158 hydraulic dock leveler. Manufactured from high tensile steel, the leveler incorporates a 600mm telescopic extending lip to ensure precise positioning of the lip onto a vehicle bed and a constant contact near hinge assembly for the smooth transfer of goods. The accuracy of the lip allows full loading up to the rear of a vehicle. www.stertil.co.uk

**Compact High Pressure Laminate Finds Its Feet**

This laminate was fabricated to produce innovative show lockers in both the male and female changing areas as well as shower lockers, cubicles and wall panelling in the sports complex and elsewhere. www.abetuk.com

**Enquiry 45**

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**Enquiry 46**

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**Enquiry 47**

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**Enquiry 47**
Altro Flexiflow Works For Dramatic Brighton Office Space

Innovative Altro Flexiflow™ resin flooring is providing a practical yet visually appealing solution to a challenging space in one of Brighton’s most unusual and striking office buildings. Built in the 1980s, Sovereign House has recently undergone extensive refurbishment, and has been transformed into a dramatic, modern space with a spectacular glazed atrium at the heart of building.

Ben Adams Architects was tasked with creating the new look. Architect, Julia Hamson explains: “Specifying flooring for the reception and ground floor atrium was a challenge, because the entrance comes in on a diagonal. This unusual space meant that floor tiles wouldn’t have worked. We needed a solid, high quality, visually appealing surface that was flexible enough to go down on the existing substrate, without cracking or bending with any structural subfloor movement. In addition, we wanted flooring that could stand the test of time.”

“Sovereign House is a busy office building, with 800 people walking in and out every day. So we needed something that could tolerate heavy use, and still looking fresh, long term. Altro Flexiflow was the ideal solution for this project. It’s tough, flexible, and can withstand the kind of movement that other resin floors cannot. It’s designed to recover from scuffs and knocks, so it’s perfect for the day-to-day wear and tear of high traffic areas. In addition it’s visually appealing.”

Altro Flexiflow is available in three options - Standard (which was used at Sovereign House), Comfort, for increased comfort underfoot, and Acoustic, which satisfies the requirement E4 of Building Regulations and BB93 acoustic design of schools. The product is available in 28 standard pastel, solid and bright colours, with the option of bespoke shades, giving complete design freedom. There is minimal requirement for joints, and because the product is self-levelling, the result is a seamless and uniform finish with uninterrupted lines. In addition, its matt surface is mark resistant, so it will stay looking good for longer. Altro Flexiflow features a PUR top coat for UV colour stability, durability and ease of cleaning. www.altro.co.uk

Enquiry 49

Re refurbishment Project Demonstrates The Value Of Retaining Community Links

A lottery-funded project has transformed a deteriorating 111-year-old building into a vibrant new community facility at Horden Centennial Centre in County Durham. Designed by the team of architects at Leeds-based practice Ombersley Design Ltd, and executed by Vest Construction in conjunction with quantity surveyors Thornton-Filby LLP, the redevelopment of St Mary’s Community Hall has created 412 square metres of modern accommodation.

Commissioned by Accent Regeneration and Community Partnerships, the scheme uses sustainable design including maximum reuse of materials, thermal performance-upgrades, high efficiency-flow-energy lighting, zoned heating and air conditioning, solar panels, low-water-use and A-rated appliances and maximum use of natural light.

Michael Fishwick, representative of Accent Housing and Horden Centennial Centre Trustee, said: “We now have a sustainable and attractive building to be proud of and a successful project which is benefiting local residents and groups. Ombersley Design have provided outstanding support and customer care throughout. In working with a team of volunteers, Big Lottery and the local community, Ombersley have been key in helping deliver a first-class community building.” www.ombresleydesign.co.uk

Enquiry 48

Tile-A-Door Provides Easy Access To Hill’s Homes

Hill Green’s Tile-a-Door® has provided the award-winning Hill Partnerships with a seamless solution to accessing concealed services in bathrooms at The Scene, a contemporary redevelopment of the old Walthamstow Arcade.

Already a popular choice in commercial development and refurbishment, the Tile-a-Door® wall access panel is one of Howe Green’s many innovative, practical and economical solutions. Ideal for bathrooms, wetrooms, WC’s, kitchens and utility rooms, the steel hatches can be custom-made to the millimetre and are supplied ready to tile, with up to a 10mm thick finish.

Magnetic latches or security lock options keep the panel neatly and securely in place whilst frames can either be left discreetly visible or completely sealed. Howe Green’s wall access range also includes the Waldor 50, a hinged access panel for more frequent access within tiled walls.

Hill Green is one of the world’s leading manufacturers of floor, wall and ceiling access hatch products. The company has developed an outstanding brand name and a worldwide reputation for quality, customer care and service. For over 30 years Howe Green has been at the forefront of design and innovation in the highly specialised architectural building products sector.

Hill Partnerships develop pioneering new homes across London and the South East and recently achieved a 5-star rating for customer satisfaction in the 2015 Home Builders Federation independent survey. For housebuilders and homeowners alike, Howe Green’s Tile-a-Door® panel provides the added peace of mind that, should access for repairs be required, the process will be faster, easier and more cost-efficient. www.howiegreen.com

Enquiry 50
Timbmet Announces First Completed UK Project For New Timclad Range

For its first UK installation, new Timclad exterior cladding has provided the finishing touch for two four-bedroom high-quality, high specification houses recently completed in the upmarket area of Sandbanks on England’s south coast. This factory-painted end-matched exterior cladding is available in the UK through Timbmet, one of the country’s leading suppliers of timber and timber-related products.

It is manufactured in Finland by Spania, which has been supplying timber cladding to the Scandinavian housebuilding industry for nearly 30 years. The impressive new-build residences at Sandbanks were commissioned by a private individual and built by Poole-based Fresh Developments (UK) Ltd, who chose Timclad exterior cladding from Timbmet not only for the superior quality of the timber and its production, but also for its ease of installation, choice of colours and sustainability credentials.

Environmentally sourced from joinery quality Nordic Spruce, these claddings are then manufactured from centre cut material, prior to being factory-coated using state-of-the-art machinery and paint technology. For additional customer reassurance that Timclad exterior cladding can withstand the UK’s unpredictable and sometimes harsh weather conditions, there is a 10- or 15-year manufacturers’ warranty on all of these sawn faced, surface-coated spruce claddings.

Timbmet supplied 3000 metres of Timclad for the Sandbanks housing project. After Fresh Developments and their customer had considered the many colours available, they were finally able to settle on one, after viewing some samples. The Timclad range is available in a vast range of colours: customers can select from any RAL colour, as well as larch and oak colour finishes. www.timbmet.co.uk

Enquiry 91

SE Controls Gets Switched On With Bristol’s Electricity House Contract

A key contract to provide an advanced smoke ventilation system to Crest Nicholson Homes’ redevelopment of Bristol’s iconic Electricity House building, has been awarded to leading smoke and natural ventilation systems company, SE Controls.

Originally designed by acclaimed architect Sir Giles Gilbert Scott in the 1930s, the six-storey Grade II listed building is being converted into 85 luxury city centre apartments, while ensuring that many of the original design features are reinstated to enhance its art deco style.

Electricity House’s main atrium is at the heart of the SE Controls solution, as the smoke ventilation system is designed to vent smoke from the atrium in the event of a fire to ensure escape routes are kept clear.

To achieve this, SE Controls is designing, installing and commissioning the system, which comprises 37 SHEVTEC® automatically controlled louvres that are manufactured and tested in accordance with BS EN 12101: 2. The SHEVTEC® louvres also incorporate ‘fail protection’ to increase safety, as well as using IP rated external motors, which are essential to allow easy access for future maintenance. In addition, 21 low level air inlet louvres and linear door actuators also form part of the system, all of which are controlled by a series of OS2 control panels with integral battery back-up and fully compliant with the relevant sections of the BS EN 12101 standard. Further information on SE Controls’ products, solutions and projects can be obtained by visiting www.secontrols.com or calling +44 (0) 1543 443060.

Enquiry 53

Advanced Provides New Fire System Simulator To Leading London Airport

London City Airport has recently opened a new simulation training room, mirroring its fire system which features panels from leading manufacturer, Advanced. The complex is already protected by Advanced MxPro panels and the new training room will allow staff to learn their use and explore various scenarios in a controlled and isolated environment.

The training room incorporates a two loop MxPro 4 panel and graphic package that will allow the staff to receive necessary training in the use of the airport systems. MxPro panels were originally selected due to their reputation for outstanding quality, reliability and ease of use. MxPro is the fire industry’s leading multiprotocol fire solution, offering customers a choice of two panel ranges, four detector protocols and a completely open installer network that enjoys free training and support.

MxPro panels can be used in single loop, single panel format or easily configured into multi-loop, high speed, 200 panel networks covering huge areas and thousands of field devices. MxPro 4 is fully compliant with EN54 Parts 2 and 4, and backed up with Advanced’s renowned customer care and technical support.

The MxPro 5 is Advanced’s highest performance analogue panel. It is EN54 2, 4 & 13 approved and is backward compatible with MxPro 4, offering long-term security for MxPro customers.

www.advancedco.com

Enquiry 52

Klober Permo Air Used In Grade 1-Listed Church Reroof

Extensive conservation and remodelling of the Grade 1-listed All Saints Church in Kingston-upon-Thames saw Klober Permo® air underlay used in the choir vestry reroof.

The £1.7m project, designed by Ptolemy Dean Architects, a practice specialising in conservation work, has opened up two entrances on the church’s north side, transforming the church into a revitalised centre for heritage and community in the heart of the town.

Permo® air has an unmatched standard of ‘breathability’ and its growing use in conservation and restoration projects is matched by a similar degree of use in new build work. www.klober.co.uk

Enquiry 54
Reynaers At Home Builds On Green Credentials With Green Acres

A brand new development in Princess Risborough has used an array of innovative products from aluminium systems company Reynaers at Home. Unusually for a domestic project, curtain walling product CW 50 has been used to maximise light and space, along with CE 77 bi-folding doors and CS 68 aluminium windows and doors.

This curtain wall has made it possible to have a feature wall of glass that is two storeys high. The aptly-named Green Acres not only boasts advanced and highly energy-efficient materials, with the ability to incorporate triple glazing and other sustainable elements, but also has wonderful views across the beautiful surrounding countryside.

Marketing Manager at Reynaers Rebecca Cope said: “Reynaers at Home’s range of made-to-measure aluminium windows and doors draws on 50 years of design and engineering excellence. The aluminium curtain wall systems are particularly well equipped to enhance the living and working environment of a residential building. Reynaers at Home also offers tailored solutions for those projects that require a specific architectural design for their aluminium façade. Our aluminium façade products are available in a hundred different colours and finishes for both inside and outside.”

Reynaers at Home’s products are robust, thermally efficient and strong. Its full curtain walling range complies with the highest standards in energy efficiency and security too and is fully compatible with its aluminium windows, aluminium doors, aluminium roof systems and even photovoltaic panels to offer a complete solution combined with endless design freedom. A 10-year insurance backed system guarantee is available for all of Reynaers at Home’s aluminium curtain walls.

www.reynaersathome.co.uk

Enquiry 55

Crittall Solution For Listed Lidl Development

Successful supermarket chain, Lidl, faced an unusual challenge with its plans to develop a store on the Lower Bristol Road in Bath. Occupying the chosen site was an empty and vandalised single storey industrial building circa 1966. Still irrevocably prime for new-build stores but, having split the acquisition of the site with a property developer, the new owners’ demolition plans were thwarted by an unexpected Grade II listing.

The reason for English Heritage’s attention was the mode of construction of the otherwise unremarkable structure. The 57,000 sq ft building was the first example in the UK of the use of the Merlo Space Frame. This system was designed to support the roof with the minimum number of columns. Birmingham-based Lapworth Partnership worked with Bath and North East Somerset Council’s conservation officer and English Heritage in the South West region to arrive at an acceptable refurbishment and upgrade of the building.

In order to replicate the slenderess of the original aluminium fenestration a steel window system was selected for all the continuous high-level glazing. The company supplied banks of coupled W20 and MY40 section fixed frames, double glazed in long runs. These were interspersed with bevelled insulated pressings both internally and externally to allow a link between upper and lower level windows, roof and internal services. Another element was a narrow metal fascia running at roof level around the building. This was recreated in steel together with its specially designed fixing system to replace the original aluminium and asbestos sill. A further aspect of the original design is a series of large louvres, an important visual element of the external elevation. Crittall reproduced these metal louvres. www.crittall-windows.co.uk

Enquiry 58

neaco Balconies Maximise Views And Sunlight

neaco’s glass panelled Juliet and bespoke balconies are helping to maximise the benefits of a unique outlook at a prestigious apartment development in Canterbury, where residents can enjoy views of the action at Kent’s County Cricket Ground.

Designed by Clarke Architects and built by Cardy Construction, Lime Tree House is a collection of two-bedroom luxury apartments combining striking contemporary architecture with flexible living space.

Set in an outstanding position next to the venue, now known as the Spitfire Ground, the properties are perfectly placed to enjoy coastal and international cricket, including the recent match between Kent CCC and the Australian team.

With their predominance of glass providing unobstructed views out, neaco’s Juliet balconies and balcony balustrade systems were an ideal choice for these high-end homes which also include bespoke designer kitchens, luxury bathroom suites and under-floor heating.

neaco’s UK business development manager, Peter Melia, said: “Maximum visibility is one of the defining features of our balconies. The use of glass panels and minimal or no stanchions has plenty of benefits besides the obvious transparency of the view – it also makes the most of natural light with maximum sunlight penetration and the minimalist aesthetic compares favourably in style to the cage-like appearance of heavily railed or meshed railings. That’s certainly a feature in keeping with the contemporary, high-end design of Lime Tree House.”

www.neaco.co.uk

Enquiry 57

KonCrete Quality

The stunning refurbishment of 10 Bloomsbury Way for London & Regional Properties by Architects BuckleyGrayYeoman includes Armourcoat’s KonCrete polished plaster wall finishes. Situated in the heart of central London, the former 1940’s Ministry of Defence wedge-shaped building has been substantially extended creating a modern open workspace. It includes a new double-height reception, with restaurants and retail space on the ground floor.

BuckleyGrayYeoman’s new design has transformed 10 Bloomsbury Way into a contemporary and relevant commercial building with a distinctive urban feel. The redevelopment has achieved a BREEAM ‘Excellent’ green building rating. Armourcoat KonCrete is an urban range of polished plaster colours and finishes designed for contemporary projects. The range offers a wealth of design options to achieve a distinctive modern look, including distressed effects or received ‘shutter’ markings.

www.armourcoat.com

Enquiry 58

View supplied courtesy Cardy Construction
The RECYFIX® channel component is made from 100% recycled PE-PP. The channel for the Brooke project has an intake cross section of 92 cm². For full Case Study go to www.drainage-projects.co.uk

Enquiry 60

Marmox Multiboards Feature In Goodenough Bathroom Contract

The total refurbishment of 64 guest bathrooms within a club, located on one of London’s most fashionable garden squares, has featured the use of Multiboards, manufactured by Marmox Limited to offer an ideal backing board for wetroom environments.

In total Marmox supplied some 1000 square metres of Multiboard in the 2500 x 600 (longboard) and 1250 x 600 (Standard board) options; at 12.5 and 6mm thickness respectively. The upgrade of the en-suite bathrooms within the Goodenough Club was completed over a 19 week period earlier this year.

The joints between the boards were covered using Marmox self-adhesive waterproof tape which enables contractors to tile directly over the top, though in this instance the tilers opted to apply a thin skim of the adhesive across the entire surface.

Marmox Multiboards are manufactured from extruded polystyrene or XPS and offer a range of positive physical characteristics in addition to being fully waterproof.

They are both light to handle and easy to cut, while still being able to carry substantial loadings if employed as part of a flooring build up. They further offer good acoustic as well as thermal insulation performance. www.marmox.co.uk

Enquiry 59

Hauraton Channels Used As Perimeter Drainage At Brooke Church Of England School

Located in Brooke village about six miles South of Norwich, The Brooke Church of England Primary School is a brick building surrounded by an asphalted playground which tended to flood when there was heavy rain.

As part of a number of measures designed to reduce future flood risk it was decided that the existing drainage needed to be upgraded.

The Hauraton RECYFIX® PRO 100 channel system, fitted with FIBRETEC® C250, MELSAFE 9mm slot gratings was specified by NPS Group of Norwich, and used to provide perimeter drainage right around the school building. This continuous 104 metre channel run not only drained the asphalt playground it prevented standing water reaching the walls and acted as a drain for roof downpipes.

The FIBRETEC® grating design helps eliminate any cross flow over the grating and important consideration for the Brooke project. The RECYFIX® channel component is made from 100% recycled PE-PP. The channel for the Brooke project has an intake cross section of 92 cm². For full Case Study go to www.drainage-projects.co.uk

Enquiry 60

Yorkon Off-Site Solutions Deliver Inspirational School Buildings To Meet Shortfall In Primary Places

A series of primary school buildings delivered by the Portakabin Group for Enfield Borough Council demonstrates the design possibilities of off-site construction and how the approach is providing inspirational education environments to address the rising and urgent demand for school places.

The Government has called for greater use of standardisation in school construction but as these projects illustrate, the technically-advanced Yorkon off-site solution is maximising design flexibility and yet offers all the advantages of factory working – less disruption to teaching, improved quality and completion in up to half the time of site-based construction. By 2023 there are expected to be more than 8 million pupils at school in England and the Local Government Association has predicted places will be needed for 880,000 extra pupils, creating major funding and construction challenges for schools and local authorities.

The Portakabin Group has delivered five very different school buildings in contracts worth £7.7 million for Enfield Borough Council working in partnership with Cornerstone Property Assets. Designed by Surface to Air Architects, these projects all used Yorkon off-site solutions to create:

• A two-storey building at Worceston Primary School providing a library, ICT suite, group rooms, four large classrooms and staff facilities.
• A 22-module scheme at Chestefield School, (integrating workshops with classrooms). The two-storey building was fully clad to complement other buildings on the school site and incorporates a tiered outdoor classroom on the upper floor.
• A single storey building accommodating nine new general classrooms, reception classrooms and a nursery at Highfield Primary School.
• A three-storey scheme at Edmonton County School for primary school accommodation on the ground floor with classrooms and science laboratories on the upper floors for the secondary school.
• An extension to the George Spicer School campus, comprising 12 classrooms in two wings linked by a hall area, and including covered and open play areas, community rooms, staff facilities and a catering kitchen.

The projects were delivered by the Portakabin Group via Scape framework contractors, Kier Construction and Wilmott Dixon, and often on very constrained, fully operational school sites which required detailed logistical planning and programming, particularly during the module installation phase.

A wide variety of architectural finishes was used on the projects, including:

• Natural wood veneer cladding to set the building at George Spicer School into its natural surroundings
• Timber-effect architectural panelling
• Multi-coloured cladding panels to create a vibrant appearance for the primary school building at Highfield School and striking green glazed brick cladding to the new nursery to complement the original Edwardian school building.

George Georgiou, School Business Manager at Edmonton County School, said, “This development was part of a primary expansion project on a secondary school site to meet the growing demand for places at reception level. It is welcoming, bright and well designed. Our experience has shown that off-site construction can be an effective way of achieving a high-quality facility ready for occupation as early as possible.”

Commenting on the design flexibility of the Yorkon off-site solutions used for the Enfield projects, Kevin Jones, Director of Business Development at the Portakabin Group said, “Our approach allows limitless possibilities whether for open plan learning spaces or cellular classrooms. This system is inherently flexible and very adaptable, and can easily achieve the wide spans that are ideal for education layouts.”

“The practical benefits of off-site solutions are also increasingly important with the rapidly rising demand for school places. It speeds up the construction process, there is less disruption when schools are being extended and it avoids the need for large site teams on live school projects.”

For further information, call 0845 2000 123, email info@yorkon.co.uk or visit www.yorkon.info

Enquiry 61

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Enquiry 61
**Riverwalk Incorporates High Specification Schöck Isokorb**

London's three historic embankments – Chelsea, Victoria and Albert – are currently being transformed as part of a regeneration scheme that will replace many of the outdated buildings which have characterised these areas for so long. The result will see the development of new homes, promenades and parks – and one of these commanding new developments, on the north bank of the Thames, is the stunning Riverwalk, at Millbank, designed by Stanton Williams.

Riverwalk features two organically shaped buildings of 7 and 17 storeys, connected by a central podium and incorporating 116 high specification apartments, plus penthouses. With such a high specification development it is not surprising to find that enormous consideration was given to the avoidance of the thermal bridging at the critical balcony connections; and the structural thermal break module specified throughout is the latest generation Isokorb type KXT from market leaders Schöck. The type KXT – for concrete-to-concrete applications – offers stepped height balconies, with increased fire protection also taken into account, as the HTE module offers fire-resistance class F 120.

A major reason for the superior performance of the Isokorb type KXT is the thickness of the insulation body. This is increased from the standard 80mm thick to 120mm, providing an even more efficient solution. The KXT not only improves thermal insulation performance by up to 30% in comparison to the standard range, it also improves sound insulation by around 50% as well. High quality stainless steel bars with improved tensile strength and a smaller rod diameter and therefore a reduction in the thermally conducting cross-section, resulting in a further increase in the heat insulation performance.

A further reason for the superior performance of the Isokorb type KXT is the HTE module, a pressure bearing block made of steel fibre reinforced high-performance concrete with Kronolith, a titanium ore aggregate from Kronos Titan. The unit offers a variety of design options and there is even the capability to construct stepped height balconies, with increased fire protection also taken into account, as the HTE module offers fire-resistance class F 120.

Schöck is a specialist in the provision of advanced solutions for thermal energy structural insulation and best known for its range of structural thermal break units. For your free copy of the Schöck Specifiers Guide and/or the new Thermal Bridging Guide – telephone 01865 290 890 or visit www.schoeck.co.uk

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**Secondary Glazing is the First Choice At GreyFriars**

Built during the late 18th century on the site of a Franciscan Monastery, stands GreyFriars originally built as a stunning family home. It remained as such until the beginning of the 20th century when it was sold alongside the neighbouring property for use as a convent and then became a college.

A period of several years followed, during which OMC Investments Limited, acquired planning permission to create a luxury hotel and restaurant in Greyfriars.

A period of several years followed, during which OMC Investments Limited, acquired planning permission to create a luxury hotel and restaurant in Greyfriars. Once a high-tech University of London's Faculty of Architecture and Planning building, the Grade II Listed building has been converted to hotel use. Much of the planning and conversion work was concept architects. Painstaking attention to detail has been dedicated to repair the features in this Grade II Listed building. An essential issue to resolve was the problem of old windows, not only causing heat loss and draughts, but admitting the ingress and egress of noise. Set to become a hotel of grand luxe, it was of the utmost importance to ensure the building performed to modern standards.

Selectaglaze was approached to give advice on the treatment of the original windows, as their products are a reversible adaptation and widely accepted by heritage agencies for use on Listed buildings. When high performance seals are used, secondary glazing can virtually eliminate drafts and traps an insulating layer which reduces heat loss. Secondary glazing also has the benefit of improved noise reduction; Selectaglaze's fully tested products can attain sound reductions to 45dB when fitted with an air gap of 100mm.

Selectaglaze fitted over a hundred units using nine different systems, tailoring the units specifically to the project's needs. Founded in 1966, Royal Warrant Holder Selectaglaze is the acknowledged specialists and market leaders in the design, manufacture and installation of secondary window systems. For further information contact: 01727 83727, enquiries@selectaglaze.co.uk or visit www.selectaglaze.co.uk

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**Driving Daylight Home**

Improved energy efficiency and an attractive interior are essential requirements for high performance building projects. This is particularly important for car dealership showrooms, such as this new Toyota dealership in Colchester, for which Space Projects were concept architects. Here, Structura UK Ltd provided and installed the Kalwall translucent daylighting system at high level to improve thermal performance and direct controlled daylight into the showroom. For the same reason, this glazing system is widely specified across the UK. The popularity of Kalwall is derived from its ability to diffuse daylighting evenly into an interior, thereby creating a well-lit and aesthetically pleasing ambiance. Internally illuminated at night, it will also emit an ethereal and attractive glow.

Unlike conventional glazing, Kalwall eliminates shadows and glare and the stark contracts of light and shade. The system also enhances simplicity by eliminating the need for blinds, curtains or solar control. Even on cloudy days, the interior is flooded with natural daylight, which means less artificial lighting and, because Kalwall is highly insulating, energy costs are reduced.

Kalwall is distributed in England, Wales and Northern Ireland by Structura UK, a leading supplier, fabricator and installer of glass curtain walling, rainscreens, glass atria, windows and other architectural glass building products.

www.structura-uk.com/kalwall

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**Internally illuminated at night, it will also emit an ethereal and attractive glow.**
Mapei Uses Superior Silicone Coating System To Help Restore 13th Century Castle

Mapei’s Silancolor Paint system has been used to restore Benton’s 13th Century castle, in Pembrokeshire, West Wales. The system was installed as part of a refurbishment to help protect the external stone-built surface.

Prior to installation of the system, the weathered external masonry walls were cleaned and a silicone primer was applied to the original substrate. The Mapei system offers a one-stop shop system approach to façade repair with all materials being available from a single source.

Approximately 800m2 of Silancolor Cleaner Plus, a protective, water-based cleaning product, was used to clean the surface, as the previous coating and mortar were damaged due to coastal weather from the estuary below, moss in the mortar and an algae infestation on the North face from adjacent trees. Mapei’s Silancolor Plus Primer, a silicone resin-based primer in water dispersion was then applied to the outer walls of the building to help regulate the absorption of the substrate and protect the wall surface from further chemical aggression. To finish, a coat of Silancolor Pittura Plus, a water-repellent and breathable, protective decorative coating, was applied to provide a long-lasting protective coating to help prevent micro-organisms (such as mildew, mould and fungi) reforming on the external façade. The project is now fully restored.

In addition, Mapei’s Mapesil AC, a solvent-free, acetic cross-linking, mould resistant silicone sealant, was used for the restoration of the cracks in the external façade. The project is now fully restored.

Mapei’s EWI and Coatings portfolio includes a wide range of thermal insulation products. For more information, please visit www.mapei.co.uk, email info@mapei.co.uk or tel. +44 (0)121 508 6970.

Enquiry 65

Energy Saving Refurbishment With Remmers IQ Therm System

The listed 19th Century former Schoolhouse overlooking the Dublin mountains was renovated and extended to create a new energy efficient residential family home.

So that the exterior façade of the existing property was not altered in any way, internal insulation was applied to the interior of the stone walls of the original house. Due to the build up of condensation behind conventional insulation when applied to single leaf constructions, it became apparent that a “breathable insulation system” would be required. Remmers IQ Therm was chosen as it has the highest level of insulation for given thickness of breathable systems. The original U-value of the wall was approx 3.3W/m2K and was improved to 0.33W/m2K. Remmers IQ Therm is a complete system of fixing/insulation and finishing available in 3 board thicknesses.

The renovation was followed on RTE’s “Room to Improve” house renovation show with Architect Dermot Bannon. www.remmers.co.uk

Enquiry 67

Royal Welcome

Trapezoidal pavilion roofs and facades, clad in Aurubis’ Nordic Royal golden copper alloy, define the welcoming character of a new children’s nursery building.

Arcadia Nursery brings together two existing University of Edinburgh nursery facilities, into a single, purpose-built complex. The three pavilion roofs are clad in Nordic Royal golden copper alloy, as well as some facades complementing adjacent timber cladding.

Malcolm Fraser Architects selected Nordic Royal for its warm and friendly persona. Double lock, standing seam points were used to give structure to the pitched roofs but the Nordic Royal wall cladding is installed with a reverse coulisseau joint, avoiding projections that children might catch themselves on at low level.

Nordic Royal is produced by Aurubis, part of the world’s leading integrated copper group and largest copper recycler. Other copper alloys include Nordic Bronze and Nordic Brass – now also available pre-weathered.

In addition to Nordic Standard copper, other Aurubis Architectural surfaces include Nordic Green and Nordic Blue factory-applied patinas - developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world. Nordic Brown pre-oxidised copper gives either light or dark brown oxidation that otherwise takes time to develop in the environment.

www.aurubis.com/finland/architectural

Enquiry 66
Metal Technology Products Transform '60s Office Building into A 'New Landmark’

Metal Technology products have been used to give a stunning facelift to a 1960s office building on London’s Edgeware Road. The refurbishment design by Architects AWW (Atkins Wickers Webster) specified a high-performance facade system engineered to reduce air leakage and exceed current insulation values. The modernisation of the building was completed with the introduction of a new, double height entrance lobby.

Metal Technology’s System 5-20D Hi+ thermally broken doors, System 17 high-rise curtain walling and System 25 Hi+ lift and sliding doors were selected for both their performance and aesthetic credentials.

System 17 Curtain Walling not only provides structural integrity with high levels of thermal and weather performance but offers limitless flexibility in specification. With a wide range of structural mullions, transoms and feature caps or the option of silicone pointing, System 17 can meet the visual and performance requirements for any building, from the smallest screen to expansive glazing applications.

The System 5-20D Hi+ High Performance Thermally Enhanced Door is part of Metal Technology’s THERMAL suite of systems that also provide high levels of structural integrity, weather performance, and security. This suite of systems utilises bespoke thermal gaskets, cellular foams and polyamide thermal isolators, all of which help achieve impressively low U values.

Commenting on the scheme, project architect Mark Alker Stone said: “AWW is refurbishing this prominent building to provide a contemporary building as a new landmark within Colindale that benefits the local area in terms of its architectural quality, energy performance and contribution to Edgware Road.”

www.metaltchnology.com

Enquiry 68

Trespa Enhances London’s Grosvenor Waterside

Grosvenor Waterside is a St James Group development in Central London consisting of six buildings adjacent to Chelsea Bridge. Moore House is the final building within the overall masterplan defining the entrance to the scheme and connecting the traditional streetscape of Ebury Bridge Road with the contemporary architectural style of the development. Trespa® Meteon® panels have been used extensively in this development, which is being transformed from its recent industrial use into a new public urban quarter.

Moore House is a nine-storey mixed-use development comprising 149 luxury residential apartments of varying sizes. The building consists of three distinct interlocking volumes; the volumes increase in height and decrease in visual density to create a unique facade. The central volume of the building is in the shape of a cube with vertical glass fins linking continuous balconies. On the ground floor there is retail and commercial office space.

EPR Architects redesigned the elevations working within the massing constraints of a previous planning consent. The use of Trespa® Meteon® as a ventilated rainscreen cladding facade has not only enhanced the visual impact of the development but also its thermal performance.

For further information and samples of Trespa® Meteon® products, contact the Sales Office UK, Petra Van Pol / Natasha Deform www.trespa.com

Enquiry 70

Trespa® Meteon® is an extremely versatile panel that can be combined easily with other building materials to create stunning visual effects. The material’s decorative surface also has excellent UV-resistance and colour stability which means it will not fade or discolour over time. At the same time, the product provides solidity and sturdiness, holding bolts, screws and other mechanical fixings.

The development is now complete and has been a focal point at Grosvenor Waterside for residents and visitors. The use of Trespa® Meteon® as a ventilated rainscreen cladding facade has not only enhanced the visual impact of the development but also its thermal performance.

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www.trespa.com

Enquiry 70

Mapei’s High Performance Decorative Flooring System Specified At The Green Room, London

A Mapei internal decorative floor system has been installed at The Green Room restaurant on London’s South Bank. The Green Room is a new neighbourhood restaurant, bar and garden created by local social enterprise Coin Street Community Builders and the National Theatre.

Designed by Benjamin Marks, The Green Room cost £740,000 to build. Three individual Mapei products were specified throughout the 150m² restaurant area and all floor works were carried out by Polished Concrete Designs.

Topcem, Mapei’s special hydraulic binder for producing fast-drying mortars, was specified as the base product due to its performance. Mapei’s Ultratop Anthracite was also chosen due to its inherent high appearance of a polished concrete surface; this was chosen to complement the look of the rest of the restaurant’s interior.

Mapei’s Ultratop Anthracite was also chosen due to its inherent high strength and excellent resistance to abrasion making it ideal for use in high traffic areas. All the joints in the floor were sealed with Mapeflex PU30, a two-component, high-strength, thixotropic epoxy-polyurethane sealant that was coloured to match the anthracite flooring.

The restaurant is situated next to Rambert Dance Studios and behind the National Theatre on London’s South Bank. The interior has been designed to provide a contemporary and airy atmosphere and features props and scenery recycled from National Theatre shows.

For more information about Mapei, please visit www.mapei.co.uk or tel. +44 (0)121 508 6970. For more information on The Green Room, visit www.greenroom.london

Enquiry 69

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Interior designers are increasingly turning to the use of glass partitions in office design as they seek to create stylish modern designs. Making maximum use of natural light transmission helps to create positive working environments, beneficial to efficient working.

The latest example of this thinking is at the new London offices of global workspace provider of WeWork™. Based in NY, WeWork™ has rapidly become one of the largest providers in the world of affordable, shared workspace, renowned for its ethos of creating a collaborative community where entrepreneurs and small businesses can interact and exchange ideas.

ESG, the UK’s largest independent glass processor, has worked closely with leading fit-out company Radii Partitioning to deliver over 12,000sqm of glass to the new Devonshire Square and Moorgate locations of WeWork™ for installation in just 8 weeks. This short timescale was a massive challenge for both companies.

ESG were running 24 hour production with two deliveries a day into central London to ensure that the Radii installation team were not left short of glass as they were running 24hr shifts to ensure the opening dates for each office were met. The 12.8mm acoustic laminated glass partitions supplied from ESG help to ensure that each office and meeting room has the privacy that a busy office requires, while the sleek modern partition frame from Radii combined with the glass helps to create the perfect WeWork™ environment.

Esg – Supplying The Glass Making The Next Generation Of London Workspace

Stelrad Radiators – The Finishing Touch For Boutique Homes In Ross-On-Wye

The Avenue in Ross-on-Wye is arguably the most desirable area of this riverside town in rural Herefordshire, yet the contemporary style of these nine quite excellent homes is something very different for a town that is a ‘tad’ conservative. But clever design, excellent use of materials and the retention of the beautiful mature trees, for the full length of this development, allows these exceptional new build homes to blend in perfectly with their impressive, if more staid neighbours.

And the heating system is as impressive as everything else about these excellent four detached houses, three majestic apartments and two exquisite lodges – that form The Avenue development. As is common in new build developments these days, the properties benefit from the latest high efficiency condensing boilers that power the underfloor heating on the ground floor, and traditional radiators on the upper floors – although traditional is a bit misleading.

The designers of these homes have plumped for high quality Compact with Style radiators from Stelrad in the bedrooms and on the landings, and attractive tubular chrome finish towel rails in the wet rooms and ensuite bathrooms. Compact with Style radiators are slimline, flat fronted, minimalist radiators with horizontal folds that match other elements of the decor. Increasingly, particularly in upper market quality new homes, the use of decorative and designer radiators is taking over from the stock in trade steel panel radiators that were until a few years ago, the standard answer to the functional heating role in virtually all new build homes.

Joint Chief Executive of Freeman Homes – Luke Freeman, who are responsible for The Avenue development says the selection of radiators is as important as any other component of these stunning new homes: “The selection of radiators had to be right. So much thought and care has gone into these homes that we were not prepared to devalue the overall ambiance of the homes by settling for anything less than the best – and Stelrad’s Compact with Style met the requirements perfectly. We’re very happy with them and the impression they make and initial feedback from customers and potential purchasers has been extremely favourable.”

Full details of the Compact with Style radiators and the rest of the impressive range of Stelrad radiator designs can be found at www.stelrad.com
Enquiry 73

**Helifix: Supporting Conservation For Over 30 Years**

There is now far greater awareness of the general principles of conservation and the need for minimal intervention, maximum retention of the original building fabric and preservation of the building’s original aesthetics and appearance. At Helifix this is nothing new as these were the very principles on which the company was founded more than 30 years ago and which have guided its development ever since.

Helifix designed the first one-piece helixal remedial wall tie, which has since formed the basis of its extremely successful range of special purpose stainless steel ties, fixing and reinforcement systems that now repair, strengthen and preserve masonry structures worldwide. Being slim, versatile, lightweight and flexible they are non-intrusive, but very effective and reliable. They accommodate natural building movement, introduce no additional stresses and improve structural performance through a composite action with the host masonry to provide non-disruptive and fully concealed repair solutions to all commonly occurring structural faults.

Helifix non-disruptive concealed repair techniques are ideal for any masonry structure, but, with no external straps or unsightly plates, they are particularly suitable for listed or historic structures. Consequently, these systems have been widely used to successfully extend the life of a wide variety of historic buildings, churches and bridges. A good example of this was a Grade II listed 18th century stone cottage suffering from cracking, outward movement and bowing of the 500mm thick front elevation. Conventional Helifix repair techniques were able to stitch cracks, stabilise the wall and reconnect it to the floor jacks, restoring structural integrity, without affecting its aesthetic appearance, while satisfying the scrutiny of the local conservation officer. www.helifix.co.uk

Enquiry 74

**Best Access For Western Visitors**

Welcoming customers to the recently refurbished, Best Western Hotel in Brome, TORMAX was contracted to install an automatic sliding door system to the main entrance. Delivering a solution that subtly blends with the building, the discrete sliding door is powered by the in-house designed, TORMAX Win Drive 2201 door drive. With an exceptionally slim profile, the Win Drive has a long-standing reputation for reliability worldwide and an exceptional service life can be expected.

“We wanted to offer visitors the upmarket welcome of an automatic entrance but needed to counter this with consideration for the historic nature of the building,” explains Brian Keane, MD for Cameron Ventures Group, owners of Best Western Brome Grange.

The result of careful research at the TORMAX HQ in Switzerland, the Win Drive 2201 automatic sliding door operator is capable of smooth opening either a single-leaf sliding door of up to 120kg or a double set of doors weighing 100kg per leaf. Although only measuring just 142mm x 100mm the Win Drive can still offer an impressive opening width of up to 2000mm clear pass through space. Simple two-key programming makes the door easy for all members of staff to operate efficiently, ensuring the ambient temperature of the Hotel reception is maintained at all times, even in inclement weather. www.tormax.co.uk

Enquiry 75

**Kemperol Protects And Preserves Tectons At Dudley Zoo**

As roofing projects go, they don’t come much more unusual than a bear ravine at a zoo! At Dudley Zoological Gardens (DZG) it’s not just the buildings’ use that made a recent Kemper System project so remarkable, but the heritage of the structures in question too.

The Tecton buildings at DZG - 12 of them in total - were designed by Bethold Lubetkin and his Tecton practice. They are the world’s largest single collection of Tecton buildings and some of the few remaining UK examples of this innovative architectural movement from the 1930s and 1940s. Tecton was a radical architectural movement that used pre-dressed concrete to create striking curved structures that enabled the architects to work with the challenging slopes and underground limestone caverns on the site.

Over the years, trends in zoo best practice have meant that some of the structures are no longer in use as viewing enclosures. Time has also taken its toll on their wear and tear too. DZG’s Tectons were put on the World Monuments Fund’s watch list of world class buildings threatened by neglect, demolition or disaster in 2010. As a result, a lottery-funded project is now underway to preserve and protect the structures for future generations.

Among the Grade I and Grade II* Tecton structures that have so far been refurbished at DZG, under the watchful eye of English Heritage, are the entrance canopy and ticket kiosks, concession stands, and the impressive ‘Bear Ravine’ which was once used to allow zoo visitors to view the bears from above at close range. One of the main priorities of the refurbishment programme is to protect the structures from water and environmental damage due to rainfall, which led to specification of Kemper System’s Kemperol cold liquid-applied waterproofing systems.

The entrance canopy consists of five horizontal ‘S’ shapes, each overlapping the one before to create a wave like ripple that announces the word ‘ZOO’ in big white letters below. The curved shapes catch rainfall, which makes the structure vulnerable to standing water and the damage it can cause. The Kemperol 2K-PUR waterproofing system was ideal as it is impervious to standing water and able to follow the exact contours of each curve to protect the structure.

The design of the Bear Ravine includes a central bear pit with a raised walkway and viewing platform - accessed by a set of concrete stairs - that also forms a partial roof to the largely open building. There is also a viewing pier that extends out at a right angle beneath the main walkway. Explains Stuart Hicks from Kemper System: “The Kemperol waterproofing products from Kemper System can be applied to the exact contours of the existing prepared concrete substrates in a single process. They cure to form a monolithic membrane that is chemically bonded to the structure, providing an ideal base for the decorative and slip-resistant quartz aggregates chosen to match the look of the original structures.

As a result, the Kemperol system and aggregates used for the entrance canopy, kiosks and Bear Ravine provide the least obtrusive solution to ensuring long-term protection for the structures without any significant changes to their appearance.”

www.kempersystem.co.uk

Enquiry 76

**At Dudley Zoo**

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www.kempersystem.co.uk

Enquiry 77
Contemporary Style And Natural Ventilation Combine In New Children’s Hospital Facility

Windows, doors and curtain walling manufactured and installed by CMS Window Systems have played a key role in creating the ideal internal environment within a stylish facility created to support the families of children undergoing treatment at the Royal Hospital for Children, Glasgow.

The company has completed the £200,000 fenestration contract awarded by main contractor CCG for the new Ronald McDonald House. This ‘home from home’ facility provides free to use amenities and accommodation, including 30 bedrooms and plenty of outdoor green space, for families of sick children from all over Scotland.

More than 65 windows were manufactured by CMS using Metal Technology’s System 8 curtain walling system for the outerframes and their 4-20 thermally broken casement system for the opening vents. These large opening vents all feature parallel opening hinges to deliver much greater natural ventilation within individual rooms for a healthier internal environment. CMS also manufactured and installed over seven entrance doors created using the Metal Technology S-20D system. These doors provide safe, secure access.

Stephen Anderson, Director of the Aluminium Division at CMS said: “We’re extremely pleased to have been involved in the construction of this outstanding new facility and we wish Yorkhill Family House Ltd every success with it. The design is excellent and provides exactly the kind of high quality accommodation that is only right for families going through tough times.”

The Ronald McDonald House at the Royal Hospital for Children, Glasgow is one of fourteen that the charity operates across the UK. It is a crucial facility within a hospital which handles around 90,000 out-patients, 15,000 in-patients, 7,300 day-cases and 35,000 A&E attendances every year. www.cmswindows.com

Improving Social Housing

The aesthetics of residential buildings can improve the quality of life of their tenants and the surrounding community. For the past couple of years European Social Housing Owners have been renovating their properties to provide comfortable and energy efficient homes.

Built in the mid 1960’s, the Bolsward Housing Complex in The Netherlands was in need of a makeover. Its four residential buildings had low ranking energy certificates and old brick facades, the interiors were outdated and in bad shape.

Dutch Housing Corporation Elkien decided on a programme to improve the life quality of the tenants while offering affordable future – proof and sustainable accommodation to low income residents. A key requirement was to provide a building envelope and external insulation that would improve the energy performance of the complex from band G, the lowest in the scale to band B, while remaining respectful of the original architecture.

Architects SPMA BNA proposed a ventilated facade that would combine a modern, polished material with the old rough appearance given by the bricks. “Since the old design was outdated we decided to take a bold approach by creating vertical blocks through the use of contrasting colours,” explains Spma. “The whole complex is now clad in Trespa® Meteon®.

The ventilated facade, in combination with insulated balconies and roofs and the replacement of the old windows helped the building to achieve the desired B energy performance certification. The demand for the apartments has also increased as the complex has become a more popular place to live. The refurbishment programme was well received not only by the residents but by local authorities and community. www.trespa.com

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Sixth School Term For Jack Door

School projects increasingly demand quality Secured by Design doors that can also deliver energy efficiency, safety features and they have to be hard wearing against the daily knocks of school life. That’s why Architectural Windows and Glazing Ltd chose Jack Aluminium Systems’ PAS24 thermal TD68 Jack Door for six schools.

Derby based Architectural Windows and Glazing has manufactured and installed 16 single and 23 double leaf Secured by Design approved Jack Doors in schools across Manchester after impressing the contractor and local authority with the quality of the product and the quick turnaround times.

“We discovered Jack Aluminium Systems two years ago,” explains David Leeming, Director at Architectural Windows and Glazing. “Expectations for school projects are high and build schedules are tight. To be competitive in this market we needed a door that solved the challenges commonly associated with school buildings that we could manufacture on short lead times. Because Jack Aluminium tests its door suite to PAS 23 and 24 standards, we’re able to manufacture the TD68 as a Secured by Design approved product using Jack Aluminium’s technical information.

“The specialist school construction company we worked with on these projects also liked the curved finger guard design feature to prevent fingers trapping in the door and the thermally broken threshold which can achieve a 1.7 U-value. I don’t know of any other double door on the market that can do all of this,” adds David. “Jack Aluminium is an easy company to deal with, helpful and straightforward to get hold of when you need something quickly. We’ve continued to use the TD68 Jack Door ever since we first found it. We have a project in progress in Worcester for 11 more Jack Doors, and have just been awarded 2 more Manchester schools as well.”

www.jackaluminium.co.uk

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Vandersanden Group Supplies Bricks And Pavers For Shakespearean Theatre, Gdansk

The building consists of three main spatial components: the walls surrounding the theatre complex, the main building with its dominant scene tower and unique retractable roof over the auditorium, and an administration area with hotel rooms for artists. A basement under the theatre complex also houses a car park, plant areas and museum facilities.

Vandersanden’s Morvan dark charcoal-grey facing bricks were chosen for the façade, to represent strength, durability and elegance. The textured brick envelope is intended to express values such as tradition and timelessness, while also contrasting with the masonry of the surrounding buildings. Furthermore, it provides a rich contrast with the smooth white surfaces of the theatre’s interior.

The outer walls are punctuated by beams in the brickwork. These are required structurally to absorb the load from the sunroof wings when open, as they reduce the weight of the walls. The high walls also hide the theatre’s mechanisms and technical equipment.

Marco Solberg, Export Area Manager for the Vandersanden Group commented: “When the Italian architect, Renato Rizzi specified our product for this important architectural project, we were delighted to supply the bricks and pavers. We have four factories, constantly manufacturing in Belgium and The Netherlands, so can fulfil orders quickly, which we know is an issue for many other manufacturers at the moment.”

The clay pavers laid around the building, which comprise the floor of the ‘labyrinth’, as well as those used on the roof, are also fired in Vandersanden’s brick mills, and therefore have the exact same colour as the facing bricks. Special Vandersanden ensure the bricks – despite the fact that they are laid in a “straight” joint – are still approximately three millimetres apart, helping them to remain in good condition for as long as possible.

For further information please visit www.vandersandengroup.co.uk.

For specific information regarding the company’s sustainable products and environmental philosophy, please view the following video https://www.youtube.com/watch?v=CJggVUoEtXw

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Belgian brick and pavers manufacturer, Vandersanden Group has supplied the facing bricks and pavers used to construct the recently opened Shakespearean Theatre in Gdansk. The first theatre in Poland since 1989 that is built as a green field project.
The new colours of the New York Collection explore an industrial and urban aesthetic to transform ordinary spaces into extraordinary.

Seven colours with two unique finishes, Concrete and Glacé, created to surprise. Creating softness and warmth. Unique in every way.