



building construction design


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February/March 2017

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**[REDEFINING
SUSTAINABILITY]**
[REGENERATION]



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Strategic Partners:





Increased presence for James Latham at SDS17



Timber distributor James Latham is gearing up for the Surface Design Show in February, where it is set to have its biggest presence yet at the UK's only annual show to focus on interior and exterior surfaces for the built environment.

As well as an impactful, eye-catching stand at its usual position on the ground level (stand 208) – where it will show a number of new additions to its range for 2017 – for the first time, this year, Latham's will also be utilising its Product Specification Showroom which is located on the Gallery level of the Business Design Centre at Suite 301.

The new showroom, which only opened in September, has given James Latham a permanent presence in the Capital and is already proving to be a major success with the architect and design community. It will give visitors to the show, the opportunity to



Accoya® Cladding will feature on Latham's stand

see an even wider range of Latham's massive portfolio of products – many of them exclusive and semi-exclusive – and all under one roof.

As well as Latham's highly experienced team of product specialists, during the show, the newly created A&D specification team will be on hand to discuss the company's extensive range of products, providing expert advice to architects and designers and helping them to keep abreast of the latest trends and developments in surface solutions.

This year, among others, the products



Kronospan's Trends 16-17 collection will also be on show

on show will include new decor launches for Egger, Kronospan and XyloCleat, Valchromat, the innovative and highly popular, engineered coloured high density fireboard, HI-MACS solid surface, UPM composite decking, Latham's new range of fire resistant products, KYDEX thermoplastic sheet, which is proving particularly popular within the retail sector, Accoya cladding and window sections, WoodEx, Moralt & Flamebreak door blanks and the new generation of OSB board from Smartply.

0116 257 3415 www.lathamtimber.co.uk

First FASERFIX® BIG SLG channel run installed in UK

The first run of Hauraton's FASERFIX® BIG SLG channel system has been installed in the UK across an access road leading to the Tarmac Leapers Wood stone quarry, east of the M6 motorway at junction 35 in Cumbria.

Just off the B6254 the quarry access road falls steeply towards the open cast facility. Rain water running from the entrance of the quarry contained a lot of silt and this was ultimately blocking up the culvert ditches on the main road – a problem highlighted by the Local Authority. A channel run that traversed the road was needed to catch the water and silt and divert this to a separate catchment area. The quarry is operational six days a week and has about forty, 40 tonne vehicles per day driving in and out of the facility – an average of 480 passes every week. Where the channel had to be located was also where the

vehicles had to brake as they near the bottom of the hill, so huge dynamic forces would be exerted on any channel run installed.

Discussions were held between the customer, sub-contractor and the Hauraton Project Manager identified Hauraton's FASERFIX® BIG SLG 300 channel as having the features required to answer the problem, having both the strength and wide catchment area needed. Additionally, the seven metre channel run had to be installed in one day so as not to disrupt quarry operations. The extra thick concrete surround already part of the channel meant that the contractor was able to install the channel run quickly and have enough time for the road to be reopened within 24 hours.

The FASERFIX® BIG SLG 300 channel component has an overall width of 588mm, is 600mm high and comes in one metre



lengths. With a nominal size of 300mm the channel has a drainage cross section is 1020cm². The each length is made from the company's Fibre Reinforced Concrete (FRC) and features 6mm (nominal) thick ductile iron plates permanently moulded onto its top edges. These reinforced edges together with the ductile iron; 14mm grating, provides exceptional wear and load resistance which easily complies with the EN 1433, F900. Each half metre grating is held by four high tensile bolts.

01582 501380 www.hauraton.co.uk

Schöck's latest thermal break innovation for Parapet Walls benefits architects

As with balconies, continuous parapets are prone to the problems of thermal bridging because energy is transferred through the thermal barrier. The conventional method of insulating parapets is to wrap the perimeter of the wall with an insulation barrier and, by wrapping the parapet, it becomes part of the heated building mass. However, the Schöck Isokorb type AXT provides a more thermally efficient and cost-effective alternative. It sits outside the heated building mass, separating the parapet at ceiling level and thereby reduces the energy loss significantly. The Isokorb type AXT has an insulation thickness of 120mm, resulting in low psi values and tests show that the heat loss reduction is significant. Its Performance is also certified as suitable for Passive House design, therefore satisfying the most stringent energy standards. In addition, a recent independent construction cost comparison



was undertaken involving two parapets each 12.5m long. One was a conventional parapet construction detail and the second incorporated the Isokorb type AXT. This showed that in construction cost terms

alone, the Schöck alternative comfortably achieved savings of up to 10 per cent, depending on the structure. Other benefits are that as no wrapping is required, the type AXT permits a more sophisticated construction opportunity with greater freedom of design. There is no risk of any additional thermal bridging through balustrade fixings, the solution is impermeable to water and requires no maintenance, so there is no risk of expensive restoration due to waterproofing problems. In addition to being a "Certified Passive House Component"; the AXT provides BBA Certification; LABC Registration; NHBC approval – and meets full compliance with the relevant UK building regulations and many projects in the UK are already benefiting from this exciting new innovation by Schöck.

01865 290 890 www.schoeck.co.uk

Modelling Abet's Laminates

Abet Laminati is delighted to announce that, as part of its ongoing drive to ensure ease of specification, Building Information Modelling (BIM) is now available across its core ranges in the UK.

The BIM Objects are now available for the Doors Collection as well as the complete ranges of compact grade high pressure laminates. This includes the Cubicles, Lockers and Labgrade Collections as well as MEG, the exterior grade self-supporting laminate. All Objects are compatible with both Autodesk Revit® and IFC programs.

Abet's UK & Ireland compact grade solutions are available in different thicknesses and a variety of sizes in a range of plain colours, speckled finishes, woodgrains and textured surfaces. The compact grade's solid core construction, available from 6mm to 12mm thick, makes it a perfect choice for areas prone to high moisture and humidity. This particularly applies to leisure centres,



swimming pools and changing rooms and where there is no risk of peeling, cracking or delamination. The fully self-supporting boards are also easy to work with for cutting and fabrication and are widely used in situations where high quality performance and design can be carefully crafted together to create an attractive visual experience.

The BIM Objects will shortly be available from the NBS National BIM Library website and are also available direct from the Abet website. Further information and support is also available from Abet, please contact them directly or visit the website.

020 7473 6915 www.abetuk.com



Saracen 'gains' a win



Saracen Interiors has been awarded a contract to provide office fit out and move management services for leading customer engagement software provider, eGain. The project, valued at £130,000, started in November and is expected to be completed within six weeks by the award-winning

workplace consultant. Work at the office in Oxford Square includes the installation of power and data, including new CAT cabling, AV, monitor arms, fibre links and server room framework. eGain's new offices will incorporate approximately 5000 sq ft of space.

enquiries@saraceninteriors.com

Saracen increases forward order book



Saracen Interiors has announced an increase of almost 30 per cent on its forward order book compared to this same time last year with almost five million pounds worth of orders coming in within the last few weeks of 2016. With a plethora of contracts scheduled to start in 2017,

from new as well as established clients, the award winning, workplace consultant is on track to demonstrate further continued growth in the coming year. The company saw a climb in its turnover of 10 per cent, over the last 12 months, despite the impact of Brexit.

enquiries@saraceninteriors.com

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Newsletter



Emailed on a fortnightly basis, the Housebuilder & Developer newsletter is designed to provide housebuilders and developers with the latest information on products and services of interest, direct to their inbox. The reader can quickly gather a snapshot of information from up to 12 carefully selected companies and easy-to-follow links through to further information. Visit www.hbdonline.co.uk or go directly to the company's own website for more details. Newsletter and magazine subscriptions are also available.

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Driving regeneration at Ecobuild

Ecobuild returns from 7-9 March with an immersive exhibition and conference programme that aims to redefine sustainability, identify future growth sectors and tackle the housing crisis.

The leading show for built environment professionals, Ecobuild 2017 will see ExCeL London transformed into a 'city' – complete with a main street, distinct destinations and special feature attractions. Central to the experience will be Regeneration Drive, a boulevard running through the centre of the exhibition floor, linking different aspects of the show and enabling visitors to experience the very best examples of innovation and creativity from across the built environment.

Martin Hurn, brand director at Ecobuild, explained: "For 2017 we're completely overhauling and innovating the Ecobuild experience. We asked our visitors what they want and need from the show, and sustainability overwhelmingly came to the top of the agenda. To deliver this, we've ripped up the floorplan and reinvented Ecobuild as an immersive city centred around Regeneration Drive.

"Imagining the exhibition as a city allows us to deliver a unique programme focused on regeneration, in a way that is relevant and inclusive to all our exhibitors and visitors. Different aspects of construction and the built environment deserve specific focus, and each of Ecobuild 2017's destinations will each have something distinct and exciting to offer."

As visitors make their way up Regeneration Drive, they will be introduced to key destinations including The Arena, City Hall, The Campus, The Gateway and The Performance Lab.

The Arena will be home to the Ecobuild Conference, with headline guest speakers, staging a range of keynote speeches from industry thought leaders and innovators across the three days. As part of the programme, UK-GBC will host daily leadership panels chaired by the organisation's CEO, Julie Hirigoyen.

The show's sustainability hub, City Hall, will be home to the UK-GBC and World Green Building Council, representing the culmination of Ecobuild's 'Redefining Sustainability' campaign – which seeks to create an industry-wide understanding of sustainability objectives and drives, and a clear direction for the future.



Architectural collective Assemble will also present its award-winning Granby Workshop project at the Campus – the show's destination for innovative thinking and the latest technology. Visitors will be able to view and interact with a unique installation created by Assemble, telling the story behind the collective's Turner Prize winning regeneration project. Attendees will be also able to interact with Future Materials, a gallery curated by ARCC, previewing next-generation materials and processes currently in either research or testing stage.

The Gateway is where visitors can explore national and social infrastructure projects in partnership with ICE, as well as a separate seminar theatre dedicated to Green Infrastructure. The Performance Lab, meanwhile, will showcase the latest in Smart Home and Smart Building technology in association with Ecobuild 2017's building performance partner, the Chartered Institution of Building Services Engineers (CIBSE).

In response to the increased Government and industry focus on offsite construction, Ecobuild has also partnered with Explore Offsite to bring a significant showcase of the exciting opportunities offered by offsite technology in the future of construction, with the industry's leading suppliers and a series of daily masterclasses.

Another new partnership sees Ecobuild and UK District Energy Association creating a new and exciting area: the ukDEA District Energy Town Square, host to leading British suppliers and also international pavilions from Sweden and Denmark, two of the most mature district energy markets in the world. The ukDEA District Energy Town Square will be located adjacent to Ecobuild's Performance Lab.

Conference highlights

Day one of the Ecobuild Conference will focus on future-proofing building and construction. Key topics will include large scale domestic refurbishment, carbon reduction in the built



environment and promoting Green Infrastructure through planning, while Ecobuild's Big Innovation Pitch reaches its climax with finalists presenting solutions to M&S and a panel of industry judges.

The second day will see industry leaders debate solutions to the housing crisis, featuring a panel including Jules Pipe, deputy mayor for planning, regeneration and skills, Greater London Authority and Ben Derbyshire, HTA Design partner and RIBA president-elect, among other sector experts. Topics covered will range from improving energy efficiency in non-domestic buildings to meeting the new zero carbon homes standard as part of the 'Low Carbon London' initiative. Broadcaster Will Gompertz will also interview Niall McLaughlin of Niall McLaughlin Architects, a recent RIBA Charles Jencks winner.

Among other things, day three topics include the possible legislation binding developers in an agreement to consider the wellbeing of future generations when planning. Reiterating the importance of effective building operation, speakers will discuss managing down energy consumption and using BIM for facilities management.

Redefining sustainability

Although more than two thirds of professionals in the built environment identify sustainability

as the industry topic of greatest interest to them, the actual meaning of the term is constantly developing. Ecobuild's 'Redefining Sustainability' campaign has been developed to drive discussions about and ultimately create a universally accepted understanding of sustainability that is appealing, engaging and most importantly, accessible to all.

Ecobuild has announced key collaborations with Lead Partner UK Green Building Council (UK-GBC), World GBC, RIBA, BRE, the Construction Products Association, the Institution of Civil Engineers (ICE), CIAT and the CIBSE. Additionally, pavilions will be showcased from associations including the Builders Merchants Federation, Passivhaus Trust, NFRC, Concrete Pavilion, TRADA and the STA.

With such a wide variety of exhibitors and partners, this year's show will provide the industry with the perfect platform to collaborate and address the key issues of regeneration and its role in shaping sustainability.

Free registration is now open for visitors. For more information on this year's event, exhibitors and conference topics, visit www.ecobuild.co.uk

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

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Home is where the heat is as Ecodan features in new Buckinghamshire development

When Matthew Homes - an experienced building company based in Potters Bar, Hertfordshire - announced that it was constructing a small development of two and three bedroom homes in Hazelmere, Buckinghamshire, it took the decision to offer a renewable technology option to potential home buyers in the form of air source heat pumps from Mitsubishi Electric.

Not only was Ecodan the natural choice as a proven, reliable form of renewable heating, the ability to provide Matthews Homes with an in-built remote maintenance and technical support was a key part of the decision.

Growing up

Hazelmere started out as a small hamlet in the ancient Desborough Hundred but it has since become a thriving community, boasting a variety of shops, pubs and restaurants and even an 18 hole golf course.

The new development consisted of eight two and three bedrooms homes backing onto woodland. Matthew Homes were on the lookout for a hybrid system that would run alongside a gas boiler and quickly identified Mitsubishi Electric's Ecodan heat pump range as an ideal solution.

In with the renew

Mitsubishi Electric is well known for its development of pioneering heat pump technologies and its Ecodan system is one of the most efficient solutions on the market.

Offering an affordable alternative to traditional heating systems, Ecodan features a modern, inverter-driven heat pump compressor which converts free energy from the air and upgrades it to higher temperatures, providing reliable heating and hot water all year round. The heat pumps only require a small amount of electricity to harvest, upgrade and move the heat to areas that it is needed.

Installation company AP Faulkner was handed the job of fitting the heat pumps, having had plenty of previous experience in dealing with renewable technologies.

Kim Faulkner, Managing Director at the company, comments: "Heat pumps are an efficient and effective way of heating a property and the cost of implementing a heat pump solution in either small scale or larger projects is dropping all the time. We expect to see plenty more of these installations in the short-term future."

As well as the obvious requirement to meet building regulations, Matthew Homes was particularly interested in offering a heating solution that was simple to use and required little maintenance. Being easy to install and maintain, The Ecodan met all of the specified criteria. On top of this,



the system is capable of significantly reducing running costs and CO₂ emissions - helping to meet renewable energy targets - and is fully scalable and able to work in conjunction with other systems.

Under control

In order to provide the homeowner with additional peace of mind, Mitsubishi Electric's MELCloud was installed as a simple Wi-Fi adaptor. MELCloud enables the user to control the Ecodan system either locally or remotely via a tablet, smartphone, PC, Mac or other Internet enabled device.

MELCloud is simple to set up and gives the operator complete control of their Ecodan system over a wireless Internet connection. Residents at the new Hazelmere development will then have the ability to view and control their heating and hot water from anywhere in the world, keep an eye on energy consumption and heat energy produced, set up a seven day weekly schedule and run a holiday mode, get temperature history reports, take in a live weather feed from the Ecodan's location and share or restrict access to the Ecodan system.

The added advantage of the MELCloud system is that it automatically includes access to the MELConsole remote maintenance and technical support available from Mitsubishi Electric.

This means that in the event of the new homeowners having any issue with their heating and phoning Matthew Homes, the company can get straight on to Mitsubishi Electric's technical helpline. Staff here can then interrogate the system remotely and in the vast majority of cases resolve any issues - without the need for a site visit.

Ready to go

With the Ecodan system in place, both Matthew Homes and Mitsubishi Electric are confident that residents in the new family dwellings will enjoy years of stress-free, efficient heating.

Stevie Byrne, Renewable Solutions Consultant at Mitsubishi Electric, concludes: "Ecodan has been optimised to operate flawlessly whatever the weather throws at it. The system has proven itself as a viable alternative to traditional heating systems and I have no doubt that its low noise levels and running costs will be warmly welcomed by the new Hazelmere residents."



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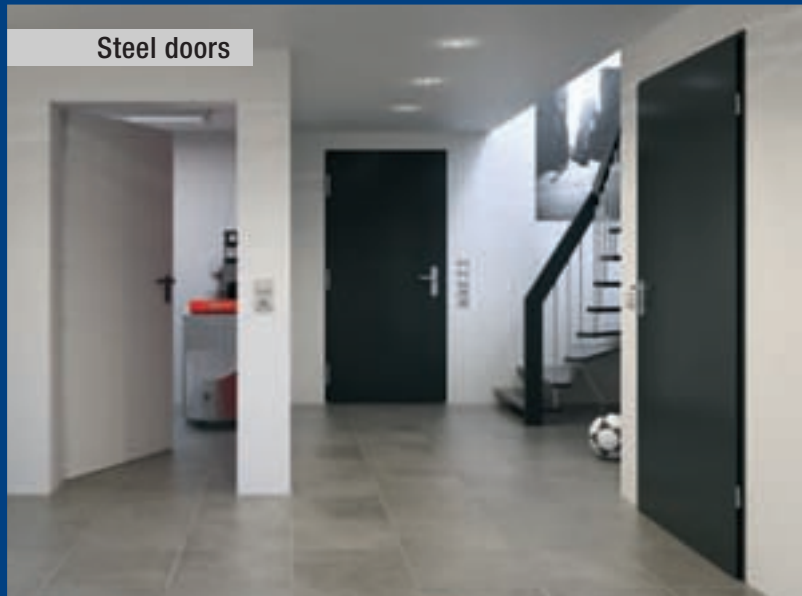
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More is more from Simpson Strong-Tie



The 2017 edition of Simpson Strong-Tie's flagship catalogue is here. Alongside the UK's largest range of connectors for timber and masonry construction, sit over a dozen new products and several range extensions, including: Post Bases; Joist hangers; Angle Brackets; Structural screws and Masonry Ties. The catalogue is also brimming with installation advice, performance characteristics and safe working loads. Sales Director, Jon Head explains: "It's been a busy year for Simpson Strong-Tie, with all new ranges for Light Gauge Steel and CLT construction, as well as our significantly expanded nails and screws ranges. We've really pushed the boat out to increase our core range though, which, coupled with our rapid made-to-order service, we really can say that if we don't have it – you don't need it". The latest version 'Connectors for Timber and Masonry Construction' is available from Simpson Strong-Tie on request and can be downloaded from the website.

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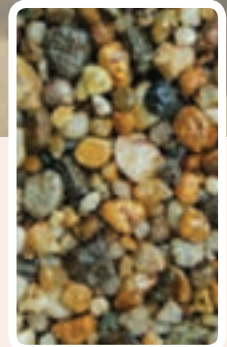
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Triton's Fastcoat delivers fast track elastomeric waterproofing

Triton's elastomeric, liquid applied TWS-Fastcoat, has provided a rapid drying waterproofing solution for the floor slabs of the subterranean light wells at the Material Store housing development in Hayes.

The material Store development is part of the £250 million regeneration of The Old Vinyl Factory in Hayes, West London, where thousands of people worked for EMI, pressing and packaging vinyl records and making everything from radio sets to bicycles.

The slabs were constructed approximately 1.5m below ground level and although the new concrete incorporated a watertight concrete admixture would have remained gas and vapour permeable. Two coats of Triton's TWS-Fastcoat, (which can be applied effectively in ambient temperatures even when substrate temperatures are as low as 0°), therefore provided an impervious barrier

which will also lower the potential risks of corrosion of the steelwork in the slabs as well as protecting the outer surfaces.

TWS-Fastcoat is a single pack, moisture curing, elastomeric resin. The membrane cures in a continuous and elastic form, as a totally adhered layer. It guarantees total water tightness and withstands minor building movements and vibrations. TWS-Fastcoat can be used as a base coat, a reinforcing layer or a top-coat. Other typical applications include podium decks, low pitch and flat roof areas with pedestrian traffic, wet rooms, lightly trafficked flooring, water channels and ponds. In green roof applications, the addition of Triton's geotextile fleece between the two coats of TWS-Fastcoat provides an effective root barrier and waterproofing layer.

At the Material Store development, as part of the preparation for the application of TWS-Fastcoat, Triton's Fillet Seal was applied



in 25mm beads to all internal angles that eliminates 90° angles at wall/floor transitions and minimises the risk of leaving gaps or holes unsealed. It was also important to ensure that the concrete surface was clean and dust free. On porous or friable surfaces, Triton's TWS-PU Primer should be applied before the application of TWS-Fastcoat.

The slabs will receive raised access floors over the TWS-Fastcoat layer, allowing any potential water/rain ingress to enter the drainage systems of the individual dwellings beneath the raised floor.

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TIMBER SYSTEMS DIVISION

Platform drainage at Historic Railway Station

The original York Railway Station was built within the City Walls, adjacent to where the current station now stands. Opened in 1839 by the North Midland Railway, the structure only served trains to and from the south and the northern coalfields. However by 1873, as more passenger and goods lines were built into York, a larger station, from which trains could gain access from all directions, was needed.

Opening in 1877, the new York Station took three years to rebuild. Designed by the North Eastern Railway's architect Thomas Prosser, the curved 800ft-long train-shed roof, supported by iron columns, arched 42ft above the platforms. The station was immediately hailed as one of the great buildings in Victorian era. At the time, it was the largest railway station in the world with four massive arches and thirteen platforms.

Today, the structure still impresses. Serving



the busy East Coast mainline route, primarily between Glasgow Aberdeen, Edinburgh and London it is also a vital cross-route link between Glasgow, Manchester and Liverpool. The station currently copes with around 800 trains and thousands of passengers each week. With so many passengers using the station, the extended platforms, which project out from the original arched structure, are as

busy as ever. The platform surfaces have been designed to gently slope inward away from the track so any surface water naturally drains towards their centre. Effective drainage of these roofed and un-roofed "outer" areas was a major safety consideration.

Hauraton RECYFIX® STANDARD 100 channels were chosen for the slightly curving platforms. The 271 metres of channelling installed were made from the company's tough recycled Polyethylene-Polypropylene (PE-PP), all fitted with Class C 250 ductile iron "heel-safe" gratings finished in a Black anti-oxidisation coating. As each one metre unit only weighs just over 6kg, including the grating, contractor C. Spencer Limited was impressed with the ease and speed of installing the channels as all the units used easily complied with manual lifting regulations.

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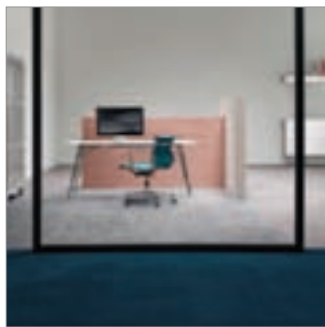
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Three designs, three shapes, three textures; one holistic workplace



Forbo's new Synergy collection brings together carpet tiles and Luxury Vinyl Tiles (LVT) that have been specifically designed to work together, enabling designers to create an almost infinite number of stimulating, on-trend floor designs for multi-use, commercial interiors.

The collection is split into three designs – Seagrass, Hybrid and Marble. Each design has four Tessera carpet tile and four Allura Flex LVT co-ordinated colourways, complemented by pure colour from the Tessera Clarity cut pile carpet tile range. Reflecting the growing trend for different modular formats, Synergy offers planks and extra large tiles in addition to 50 x 50cm tiles.

The new Synergy collection is as convenient as it is stylish. All of the products can be easily installed using the same tackifier and can be fitted directly next to each other without the need for transition strips, additional profiles or sub-floor build up. Designers can concentrate on achieving their desired scheme as there is a standardised cost per square metre.

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Polyflor is pleased to announce the launch of Silentflor PUR, a collection of heavy commercial sheet vinyl flooring with acoustic properties, available in a variety of high design wood, concrete and abstract effects. Silentflor is a robust, beautifully designed collection that achieves 19dB

impact sound reduction and has been expertly created for a wide range of commercial interiors, such as installations in the healthcare, office, education, residential, retail and leisure sectors. Made in the UK, this flooring range includes 36 stunning designs.

0161 767 1111 www.polyflor.com

Glass balustrade for contemporary style



Neaco have supplied a major balcony and balustrade specification for a stunning development of 58 luxury apartments overlooking the River Trent in Nottinghamshire. Handrails and balustrade have been precision-engineered in aluminium featuring a powder coated finish in one of Neaco's standard metallic colours which combines superbly with

tinted toughened glass infills to bring a stylish modern aesthetic to balconies and communal terraces enjoying spectacular views across the river. Neaco's product range also includes structural glass, adaptive bathing facilities and aluminium grilles.

Spitfire Doors launches timber fusion



Luxury residential entrance door supplier, Spitfire Doors, has launched a new timber fusion collection in response to growing market demand in the UK and Ireland for a high end alternative. The S-400 range, which is constructed from West Canadian red cedar, will sit alongside Spitfire's

S-500 exclusive aluminium range to provide luxury quality, high specification entrance doors. The door's elegant finish is complimented by modern stainless steel hardware and organic glass inlay options, as well as state-of-the-art security features.

01625 412570 www.spitfiredoors.co.uk

Neaco chosen for another landmark



Neaco's aluminium decking has been specified for another landmark bridge project at Bécon-les-Bruyères train station which forms part of the extensive redevelopment of the Zac des Bruyères Courbevoie in Paris. The striking new

footbridge is the key feature of first phase of modernisation carried out by contractors, Groupe GCC. It now facilitates access to routes for travelers and allows residents the passage of Asnières-sur-Seine at Courbevoie. Bécon-les-Bruyères is one of the busiest stations in the suburbs, with more than 20,000 passengers per day.

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Bauder delivers largest solar array in higher education sector

The University of the West of England (UWE) in Bristol has recently quadrupled its solar generating capacity through the installation of 1,731 solar panels, which will enable it to produce over 400 MWh of electricity each year and making it the largest solar panel array in the UK university sector.

The new solar array has been installed on the roof of the University Enterprise Zone (UEZ) and the Bristol Robotics Laboratory, which have both undergone extensive refurbishment as part of the required works. Prior to the solar panels being installed, approved contractor Mitie Tilley Roofing overlaid the original failing single ply waterproofing with over 12,000m² of Bauder's lightweight, robust PVC single ply waterproofing system Thermofol. The solar modules, which weigh just 12Kg/m², were then fitted onto the waterproofing using a unique penetration-free, welding method by renewable energy specialists Dulas. This



installation technique means that the roof is not compromised by penetrations for fixings nor is it ballasted, which would add additional weight loading to the roof.

The new photovoltaic system will generate at least 74.32 Megawatt Hours of solar power each year which should; cover half of the energy consumed within the building, save around 200 tonnes of carbon and provide annual savings of over £50,000 a year. The university is highly committed to

sustainability and energy efficiency, and this solar project is just part of a much wider plan to achieve its carbon reduction goals and enhance local renewable energy capacity.

Fabia Jeddere-Fisher, Energy Engineer at UWE, stated, "From its conception, we chose a roofing system that would mean the flat roof would not need to be strengthened if we chose to add solar panels. Normally, panels placed on flat roofs require either weighing down or fixings that penetrate the roof membrane, which can introduce the risk of leaks. The system we have chosen means that the panels are welded into place, reducing load, and reducing the need for roof penetrations. The University will use 100 per cent of the power generated by the PV array, which will be equal to the amount generated by nearly 200 homes with solar panels. As a large organisation we want to set an example for others to undertake similar projects."

01473 257671 www.bauder.co.uk

Surface water channels efficiently drains aircraft hard-standing at Cork Airport

Beginning in June 2003 a €144.3 million investment in new 28,300m² facilities at Cork International Airport was completed in August 2006. The development included a new terminal and hard standing for parked aircraft. The hard standing area was drained by three sizes of Hauraton RECYFIX® HICAP® high capacity channels – 150, 200 and 300. All the sizes had fixed ductile iron 28mm open slot inlets that comply with loading category Class F900.

Having supplied high capacity surface water drainage channels for aircraft hard-standing areas at both Gatwick and Heathrow, UK airports, Hauraton were confident their RECYFIX HICAP channels would comply with the stringent specification asked for by the Cork Airport design engineers.

With aircraft tow trucks alone weighing 80 tonnes, manoeuvring aircraft impose an enormous burden on any surface drainage system. Not only must the area be efficiently



drained, the installed system must also withstand the twisting forces exerted by turning aircraft and numerous service trucks.

During the construction stage, just over 300 metres of RECYFIX HICAP were installed in the airport's taxiways and hard-standing areas adjacent to the terminal building.

Tim Connolly, Hauraton's managing director, was pleased when his company's high capacity channels were chosen for Cork Airport expansion scheme: "The HICAP channel components are made from specially formulated recycled polyethylene (PP), the heaviest one metre channel used, with the ductile iron inlet, weighed 25kg so allowed one-man-lift of the unit. This greatly simplified handling and logistics for merchant and contractor who found the combination of a tough PP channel and ductile iron slotted inlet resisted site damage during installation. The completion of this project means Cork ranks as one of the best regional airports in Ireland with its modern facilities and state of the art equipment. As with all Hauraton surface water drainage channels, the performance of the RECYFIX HICAP range complies with European Standards (hENs) and carries the CE mark".

01582 501 380 www.hauraton.co.uk

Laminates create a colourful campus

Abet Laminati's MEG exterior grade laminate has been used to colourful effect at a new Academy in Birmingham which specialises in preparing students for careers in Health & Social Care, Enterprise and Creative Technology.

Designed by international design practice Scott Brownrigg, with the exterior supplied by SIG Building Systems, the new purpose built premises spans several buildings all clad in grey and orange laminate from Abet Laminati's exterior grade high pressure laminate collection.

MEG is a perfect choice for this kind of high demand environment where durability meets design. Carrying a BBA Agrément Certificate, MEG is a self-supporting high pressure laminate (HPL) for cladding the exterior of buildings, balconies and other applications. It features high resistance to temperature, climate shock, weathering, UV



light and impact. Furthermore, its chemical resistant nature and closed structure do not allow paint in spray cans, various inks, emulsion paints, lipstick or pastel paints to penetrate into the decorative layer negating the need for any anti-graffiti treatment and making the surface easy to clean.

The range is available in over 91 colours in a mix of traditional plain colours, wood finishes and simulated-concrete colours Metal. MEG is also able to incorporate Abet's digital printing technology. This means that almost any design, photograph or pattern can be reproduced in stunning detail to give architects and designers unparalleled freedom to create unusual and dramatic building facades.

Samples and technical literature are available from Abet Ltd's sample line on the website.

020 7473 6915 www.abetuk.com

Creating a healthy ambience



A specialist school in the South of England educates children and young people with special needs including autism and learning difficulties. Set in stunning grounds, the school has recently completed a major construction project, designed by Lee Evans Partnership, to ensure that all its buildings are suited to pupils with their wide range of neurological and developmental disorders. Insulating **Structura's** Kalwall was specifically chosen by the architects because of its unique ability to convert and diffuse daylight, as well as providing privacy. It also eliminates brightness, glare and shadows which are common with normal glass. This is particularly important as it helps students with visual problems such as hypersensitivity to light, or those affected by glare, colour contrast or brightness. Unlike glass, the translucent system resists solar gain so air-conditioning costs can be reduced without the need for external shading devices or internal blinds. Kalwall structural panels can be used for walls, roofs and skylights and are increasingly specified for the refurbishment of cladding or rooflights in older buildings. At night when viewed externally, the panels exude a gentle and attractive glow.

Kalwall@structura.co.uk

Getting on top at the Crick



The Francis Crick Institute in central London is a world-leading centre of biomedical research and innovation. It's research groups are now beginning to move into a new state-of-the-art building, featuring an extraordinary roof screening solution from **Levolux**. This striking new building, designed to achieve a BREEAM 'excellent' rating by architects from HOK with PLP Architecture, is one of Europe's largest biomedical research centres. Once complete, it will accommodate some 1500 staff including 1250 scientists. Levolux worked collaboratively with the project design team to develop a custom roof screening solution, to satisfy unique and challenging project-specific requirements. The resulting solution is impressive in scale; extending 160m in length and 80m in width, and reaching up to more than 43m above street level. The enormous roof screening structure resembles a modern vaulted roof, divided into two interlocking shells. Each shell is formed from a variety of screening fins, or louvres, that combine to create an attractive, yet multifunctional enclosure. Solid, perforated and twisted aluminium fins all feature, along with glass fins.

info@levolux.com

Rising UK construction output drives demand for Hueck UK's aluminium systems

A new survey has reported an increase in activity in the UK construction sector, despite current political uncertainty.

The Market/CIPS Purchasing Managers' Index (PMI) for the sector moved up to 52.6 from 52.3 in September 2016.

UK construction companies saw a rise in business activity in October, largely driven by residential housing activity.

Leon Friend, project development director at aluminium building systems manufacturer Hueck UK, says the firm has seen an increase in domestic and commercial construction projects this year.

Leon says that with a rise in new construction projects has come increased demand for Hueck's aluminium building systems.

A lot of challenges have faced the aluminium market in 2016 including Brexit, the China slowdown, sluggish pricing, the commodity super cycle and interest rates.

But, globally, aluminium demand has surprised on the upside in most regions so far



this year and is seen growing five percent in 2016.

In Europe, demand is set to remain stable long-term, despite political uncertainty. Reforms to the London Metal Exchange's global warehouse network have cut the amount of metal trapped in storage and, despite uneasy trading on the LME, aluminium in construction is doing well.

Leon comments: "Aluminium is a light, strong, long life material. It is also a green material as it is 100 per cent recyclable, with

re-melting only requiring five per cent of the energy required to produce the metal in the first place.

"As such, it is ideal for many building and construction applications and our high-performance systems meet the stringent requirements for functionality, energy efficiency, architectural flexibility and design that are in demand at the luxury end of this market."

Hueck is one of Europe's largest manufacturers and suppliers of aluminium window, door and facade solutions, specialising in both standard systems, as well as and bespoke applications.

The company offers a wide choice of profiles, all of which are designed to integrate with each other. In addition to the Lambda and Trigon ranges, Hueck also manufactures the innovative Volato suite of sliding systems, as well as a range of fire protection systems.

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