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## Notes from the Comar design team... Large 62mm glazing pocket for acoustic

BIM ready.

With thermal foam and triple glazing, U-values are reduced to 0.77, creating a future proof solution.

> The latest thermal break technology including foam.

Slim sight lines for both the casement and tilt/turn.

Windows hang direct from the Comar 9P.i Frame as well as rebated doors.

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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/.

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Front Cover...Photo kindly supplied by Altro. www.altro.co.uk

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#### WWW.ISGPLC.COM

Title: ISG Appointed To £17.5 Million Bradford Leisure Centre Scheme Architect: ISG





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#### ALIGN-ARCHITECTURE.CO.UK

Title: Educational Excellence – Align Architecture Designs Classroom Extension For Moor Hall Primary School Architect: Align Architecture



Align Architecture, one of Birmingham's emerging talents, recently helped Moor Hall Primary School achieve planning permission for a building extension.

The school, which has built a reputation for providing high-quality education to all its pupils, required the extension to improve the school's facilities and provide staff with additional early years learning space. Align was appointed to create a sustainable proposal that would make best use of the available space, outlining plans for a new extension alongside refurbishment works that could accommodate a 60-pupil classroom.

The proposed development entails the demolition of a partition between two existing classrooms to provide one large, flexible space – refurbishment works have also been proposed to the existing reception classroom to create a new main reception and administration area. The access has been reconfigured and the external play space rejuvenated to reflect the proposed changes to the school buildings.

Principal Architect at Align, Nick Clewer commented: "Moor Hall Primary School is well-known for its commitment to quality, boasting an experienced

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team of teaching staff and a comprehensive range of facilities. We were engaged to design an extension that would help create muchneeded early years teaching space – a 60-person classroom that would contribute to the sustainability of the school's site.

"While it was important to offer a proposal that would be practical for its intended use, it was vital that the extension did not compromise on style and was visually appealing within the site. All aspects of the design process were carried out with consideration given to health & safety aspects of the proposal – combining our experience and industry knowledge to design a flexible large teaching space that would be an asset to the school.

"This included details of refurbishment works to an existing classroom, creating a modern main reception area and administration area."

Andrew Steggall, Headteacher at Moor Hall Primary School, said: "In order to continue delivering the high-quality educational experiences that parents and pupils expected, we required a new large teaching space to accommodate our classes.

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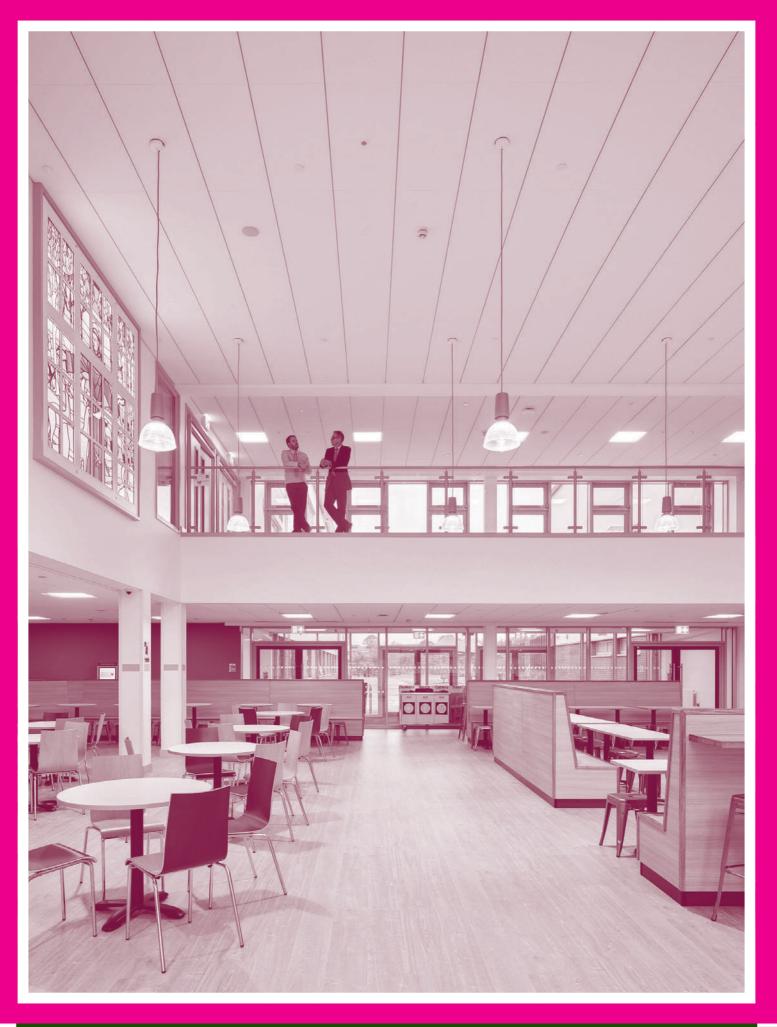
اطلاعات ، مقالات و دورههای آموزشی دکورا،

"We engaged Align Architecture as we knew they had experience helping other schools with similar projects and could trust their expertise to deliver a proposal that ticked all the boxes. Not only did they deliver a practical teaching space that matched our size requirements, but they understood our ambitions to create a modern classroom that would be visually appealing and sustainable"

"They successfully delivered a proposal that exceeded our expectations and addressed all of the key objectives we had originally set out. We're very much looking forward to seeing the final result and would recommend Align Architecture to any other educational organisation looking to expand their existing premises."

Through the proposal of the extended and updated teaching space, Align aimed to deliver a high quality educational experience which operated practically while contributing to the modernisation of the school. Align hope that the scheme exceeded expectations and addressed all of the key objectives set out to provide a visually appealing and sustainable design solution for the school community.

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## opinion!

this months contributors:

Rockfon

Sto

"Get the habit of analysis - analysis will in time enable synthesis to become your habit of mind."

**Frank Lloyd Wright** 



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#### WWW.ROCKFON.CO.UK

Article By: Rockfon Title: Making sound sense Author: Tim Spencer, Technical Manager



Rockfon Technical Manager Tim Spencer discusses how acoustic design can create successful learning environments in schools and colleges.

Recent studies have shown that a high level of noise in the classroom can impact on academic achievement. A speech intelligibility in classrooms research project by Herriot-Watt University in Edinburgh found that up to 80% of the consonants spoken by teachers cannot be heard by pupils. 77% of students in a Danish study on the indoor climate in the classroom complained about noise as a disturbing factor. As the purpose of a school is to provide an education, it is important



that the buildings are conducive for learning. Today's classrooms are designed for variety of uses which makes achieving the ideal acoustic environment a challenge. Teaching methods are changing too. Schools are moving away from the classical lecture format where a teacher stands at the front of the classroom and, instead, children work collaboratively with

a teacher and, often, an assistant working in unison. While these more dynamic and sometimes lively teaching styles benefit students in many ways, background noise can also impede learning.

Poor classroom acoustics are exacerbated by the increasing use of internal hard surfaces, for example, glass, metal and plaster, which reflect sound creating reverberation making it difficult for teachers and students to understand one another. Background noise from inside the classroom and adjacent areas can also hinder concentration levels and performance. Memory research carried out by Noise in Educational Institutions 2008 showed that irregular background sounds, for example, speech, music and traffic noise, interfere with short-term speech memory even at low to medium volumes.

Keeping noise to acceptable levels in the classroom has a positive influence on a teacher's ability to impart knowledge and a student's ability to learn. Designing learning environments using products that absorb sound and control the spread of noise will improve the acoustic conditions. Research into the effects of noise on children at school by Acoustic Specialist Professor Bridget Shield and Psychology Professor Julie Dockrell found that 10% more words are correctly identified by students in classrooms fitted with acoustic panels. Sound absorbent materials reduce reverberation times and control noise levels ensuring good speech intelligibility. Appropriate sound insulation prevents intrusive noise from travelling from one space to another helping improve concentration levels and performance. Installing acoustic ceiling solutions which provide sound absorption across a wide frequency range will make a significant contribution to learning outcomes.

When building schools suitable for children with special educational needs (SEN), more attention needs to be paid to the acoustics. SEN pupils are often sensitive listeners and can be easily distracted or distressed by too much noise. At a new academy designed especially for children with SEN, sound absorbent ceiling and wall panels providing the highest classification of sound absorption (Class A), which significantly decreases reverberation, are installed in all learning areas to create the desired acoustic comfort.

For more voluminous multi-use areas where large numbers of children gather, for example dining and sports halls, the installation of acoustic wall panels in conjunction with acoustic ceilings will improve room acoustics by reducing flutter echoes and ensuring optimum sound absorption. Acoustic wall panels should be fitted on at least two adjacent walls to ensure uniform speech intelligibility around the room.

Ceilings providing a combination of sound absorption and high sound insulation are ideal for protecting occupants against external intrusive noise. Typically, these higher performance solutions can be installed on top floors to reduce the noise generated internally by rainfall on metal roofs ensuring compliance with the requirements of Building Bulletin 93 and Approved Document E Part E4 (UK). The ceilings' superior sound absorption and sound insulation decreases the ambient sound level in the classrooms and limits noise transference to the spaces around and below.

By considering acoustics at the outset of a new build or a refurbished school project, the costs related to the acoustic design could be limited to less than 0.5%, whereas acoustic improvements made after construction work is completed will be considerably higher. Engaging with an acoustician and a reputable acoustic ceiling and room acoustic products' manufacturer for advice can ensure that the solutions chosen will meet all the performance requirements.

By understanding the demands of a building, how each space will be used and the impact on its occupants, the correct acoustic solution can be installed to ensure our schools are a positive and focused learning environment.



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#### WWW.STO.CO.UK

Article By: Sto UK Title: How Façade Paints Have Taken On A Whole New Look Author: Gary Bundy, Technical Director



Technical Director for Sto UK, Gary Bundy, takes a look at some of the latest advances for façade paints, and examines the potential they offer to create exciting new appearances for today's buildings.

Although great consideration is given to the overall appearance of our buildings, the paint or surface finish that will be used is often the poor relative that is overlooked in the quest to find the right cladding and render system for a project. This really should not be the case though. Paint finishes deserve just as much consideration, as the results they achieve are often surprising. Given the major advances in paint and finish technologies made in recent years, there has never been a better time to take a fresh look at this important area.

#### The natural look

Surprisingly perhaps, the world of nature has provided the inspiration for some of these advances. For example, a façade paint is now available which creates a surface modelled on the shell of the fog-basking beetle. The shell uses special micro textures which are highly efficient in simultaneously repelling water and channeling it away. By using a special composition of binding agents and filler material, this façade paint recreates this action on the surface of the building. The result is that the surface repels water rapidly and allows the building façade to dry out very quickly. This also prevents the growth of the micro-organisms which can lead to unsightly staining and marking.

This intelligent technology paint is also able to offer great creative freedom to the building designer, as it is available in a very wide range of colours. This opens up new possibilities for the creation of fresh and inspiring building façades, and by providing a high level of colour stability this type of paint also ensures that those façades will keep their good looks for many years.

#### Natural roots

This is not the only type of façade paint that has its roots in the natural world though. The task of maintaining the appearance of building façades can seem to be relentless, but once again a naturally-inspired, dirt-removing façade paint is on hand to help out.

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This paint uses the same 'self-cleaning' effect which is found on the lotus plant, and the resulting 'lotus-effect' forces rainwater to run off the building façade in droplets, washing any particles of dirt or debris from the surface in the process. This reliable dirt-removing process helps maintain the original appearance of the surface for far longer than a conventional alternative. This benefit is not restricted to new-build projects either. The paint can be used on both old and new external render substrates, allowing each type to effectively be washed clean every time it rains.

#### Dark dangers

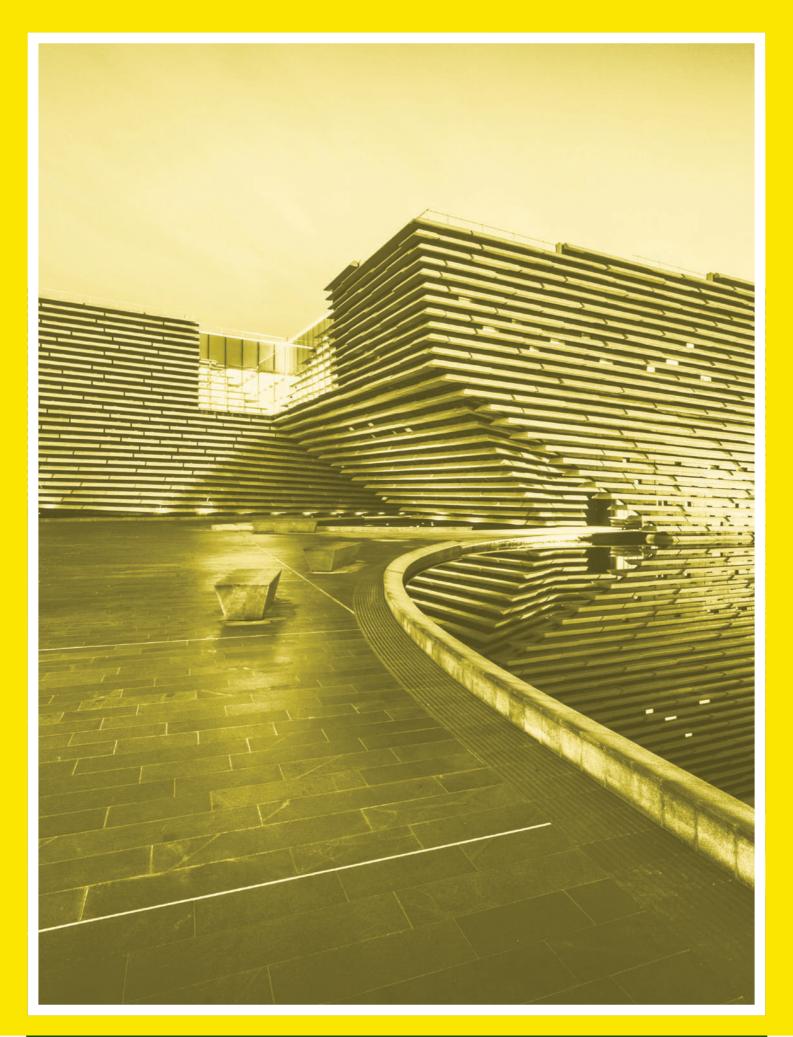
Alternative colour options are another area where today's advanced façade paints can make major contributions to the building design process. To take just one example, the task of adding a very dark render finish to external wall insulation has traditionally been extremely difficult, almost to the point of being impossible. The problem lies when the render absorbs solar heat, and it can often reach temperatures of up to 80°C, which then causes the render to suffer from dimensional instability and cracking.

Fortunately, a façade paint is available today which provides the solution to this long-standing problem. It uses special black pigments which reflect much of the solar energy in the invisible near-infrared spectrum. So, although the render surface might be a very dark colour, it will remain relatively cool. This protects both the render itself and the insulation it covers from the damaging extremes of thermal stress. As a result, the thermal limits, which have previously inhibited the use of dark coloured render designs for buildings, are effectively eliminated, allowing architects and designers to give free reign to their creative talents.

New solutions such as these illustrate the fact that the options available for modern façade paints are now almost unlimited. If architects and designers work with a manufacturer who is a proven specialist in this area, the possibilities for creating eye-catching, attractive and practical building designs are virtually unlimited, and the resulting building façades are also protected from the effects of weather and deterioration.

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picture perfect projects:

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'Beauty is the oracle that speaks to us all"

Luis Barragan

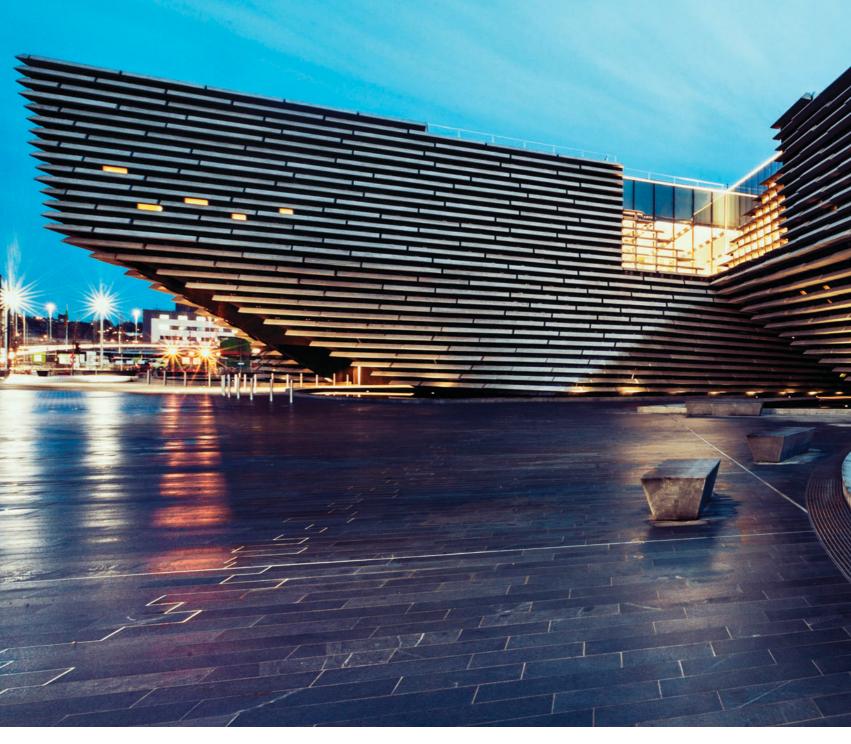


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## SFS Fastening Solutions Deliver Superior Envelope Quality For Dundee's New V&A

High performance A4 austenitic stainless fasteners by SFS will play a vital role in ensuring that the stunning new V&A Dundee will retain its superb visual appeal throughout its lifespan.

The market-leader in building envelope fastener systems has partnered with Sika Sarnafil and Q9 Cladding Solutions to deliver a secure and durable warm roof for the highly acclaimed museum, which is the first V&A outside London and explores Scotland's design heritage past, present and future.

Their comprehensive building envelope package will ensure the visually stunning façade delivers on the architect's aesthetic goals throughout its lifespan. Opened in September, the V&A is the centrepiece of the Dundee waterfront regeneration programme, a £1 billion project designed to reconnect the city with its river. The 30 year redevelopment scheme (2001-2031) stretches 5 miles along the Tay riverside and is expected

to help create more than 7,000 jobs. Designed by globally acclaimed Japanese architects Kengo Kuma & Associates, following an international competition, the V&A Dundee is an eye-catching 8,000m<sup>2</sup> building. A total of 2,466 huge cast stone panels, weighing 3000kg each and spanning up to 4m wide, wrap around the museum's façade, the design of which was inspired by the coastal cliffs of the North East of Scotland.

As part of the building envelope package, SFS worked closely with membrane manufacturer Sika Sarnafil to ensure that the innovative design of the V&A warm roofs could be delivered sustainably, and to a superior build quality for maximum longevity. This typifies SFS's dedication to providing industry-leading support and guidance along the entire supply chain. Colin Black, Technical Sales Manager for SFS in Scotland, worked closely with Sika Sarnafil and Q9 Cladding Solutions, providing multiple pull-out tests at various stages of the project and technical backup during the installation phase.

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With the building's exposed waterfront location, and a design which features an impressive cantilever over the River Tay and a roof height of 18m, it was crucial that no risks were taken with the long term reliability of the fastening solutions for the warm roofs.

Wind load calculations confirmed that membrane and insulation layers needed to be mechanically fixed, and the building's location in an exposed saline environment demanded the highest level of corrosion resistance achieved through austenitic stainless steel grade A4 (316) fasteners. Their application will ensure that the life of the fastening system will meet or exceed the life of the roof system and eliminate the risk of premature failure.

Sika Sarnafil S327 membrane was installed with the Sarnafast fastening system, which includes thermally broken SFT sleeves and SFS's BS-S-4,8 austenitic stainless steel grade A4 (316) fasteners. The tapered insulation system was also installed with BS-S-4,8 fasteners which were combined with Sika SBT sleeves and SBIW insulation washers.

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Being A4, grade 316 austenitic stainless steel, the SFS BS-S-4,8 fasteners are available with a 25 year warranty and have been proven in environmental conditions worldwide. This is due to the material characteristics of A4 austenitic stainless steel which is recommended for industrial and coastal regions where design life requirement exceeds 15-20 years.

Colin Black says "It was great to work with both Q9 Cladding Solutions and Sika Sarnafil on this prestigious building. This was a very complex build, which inevitably threw up some problematic fixing applications for the installers, so site visits were necessary to understand the issues being encountered, in order to provide practical and workable solutions to the problems. It's a building that means a lot to the redevelopment and growth of Dundee and we are very proud to have been able to assist with our products and expertise." www.sfsintec.co.uk

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Corian<sup>®</sup> Has The Right Credentials To Clad The New Lancashire Constabulary West Division Police Headquarters



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Adequate space and enhanced security were key considerations. By undertaking a land swap with the local authority a new site further back from the waterfront was acquired. This not only positioned the new HQ in a location that offered a significantly enhanced footprint and greater road network connectivity, it brought inward investment into a challenged neighbourhood.

The project came under the Scape framework for matching specific expertise to public sector projects and was put out to a competition between qualifying architectural practices, which was won by McBains Architects. The building was conceived to answer the needs of the new age of policing and to reflect its civic identity in a way that was commanding but not intimidating. Optimum sustainability was vital and the building is rated 'BREEAM very good'. Clearly, functional longevity was also a key concern and careful cost analyses were performed to ensure the best value for the investment of public money,



in terms of reliability and performance. Appealing aesthetics were also a fundamental consideration.

"It was important," says Mark Baseby, Project Director for McBains, "that the building reflected its relationship with Blackpool as a seaside location. And while the design needed

to incorporate protection against security threats, there also needed to be a degree of 'transparency' especially in terms of the communityfacing aspects of the building. The idea was to avoid a completely uniform appearance for the building but to create something characterful and unique."

The building is made up of three main elements: an office block, a custody block (which is constructed of concrete and houses forty-two cells) and an ancillary block that contains facilities such as CSI labs. The main office building is a glass box over a steel frame, designed to suggest waves upon the sand, and this is wrapped in a white shell of Corian<sup>®</sup> Solid Surface. The main length of this element is north facing, thus the cladding functions as a ventilated façade while also offering a visual openness. The western edge of the building has a cantilevered canopy for greater solar shading while the southern edge has fewer apertures and a more solid sense of cladding.

"The façade works both as a 'protective' shield in terms of thermal efficiency and a pristine, easy-care finish, while also being reminiscent of shells found at the seaside," says Mark "Thus the three-storey building is revealed from within this outer shell." On investigation into appropriate cladding options, the McBains team participated in workshops with Corian® Industrial Partner, Unique Fabrications, to explore whether the material would meet all the high demands of the specification. "We found that Corian® was right up our street," says Mark Baseby.

"It was not the first material we looked at for the building as controlling costs was a key consideration," he adds, "But our analysis showed that ultimately it would be a wise investment as it was not only within our budget, but also offered long term durability with minimal maintenance. We are really pleased with the results. It was a great experience to work with Corian<sup>®</sup> and we would do so again. Everything we wanted from the product, we got."

In total, 1600 square metres of Corian $^{\otimes}$  in Glacier White was fabricated into cladding panels using skilled techniques such as thermoforming, and installed using a Keil mechanical fix system by Unique Fabrications Ltd.

Chief Supt Matt Horn said: "The new West Division Police Headquarters is a massive improvement to the facilities we had at Bonny Street, which were very dated and simply no longer fit for purpose. These new facilities ensure we are well placed to deliver our service to communities, from an operating centre that delivers a modern working environment for our staff who work so hard to keep the area safe."

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## Privacy On Demand For Four Degree Whisky Lounge

Situated in South West London stands Four Degree: A contemporary Japanese restaurant with a modern European twist! Recently featured on the popular Channel 4 reality TV show, Made in Chelsea, Four Degree really is the place to be for exquisite cocktails and fine dining.

Now home to the UK's first Macallan Whisky Lounge, the restaurants' interior design demanded a high quality touch for their valued customers. ESG were commissioned to supply the LCD privacy glass needed to create a floor to ceiling wall partition between the Whisky Lounge and the restaurant space.

For a space that demanded elegance, quality and privacy, ESG switchable glass was the optimum choice. By utilising ESG's latest 12mm LCD privacy glass with a grey switchable tint, a total of of 20m<sup>2</sup> was manufactured at ESG's UK facility before one of it's preferred installation partners installed the glass partition between the two spaces. The minimalist, frameless design was achieved by installing a minimal 25mm depth top and bottom track to hold the glass which allows an unobstructed view into the lounge showing casing its fantastic whisky displays.

The complete installation was powered by just one ESG-4K Controller and a wall mounted, wireless switch. All electrical systems were fitted with no visible wiring and bus bars providing a clean, aesthetically pleasing finish. Each switchable panel hosts a high clarity film situated between two low iron glass panels.



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By producing near zero haze, the glass walling will easily allow natural light to flow throughout the Lounge, while also blocking 99% of UV rays. At the touch of a button, the glass can effortlessly change from uninterrupted views across the restaurant to instant privacy. In approximately 100 milliseconds the Whisky Lounge can be turned into an intimate space for whisky lovers, private parties and valued clients.

With the unique technology inside ESG's 4K controllers, developed in house and exclusive to ESG, the company has no doubt that it's switchable privacy glass will provide a stunning, yet functional, addition to the Four Degree restaurant for years to come. www.esg.glass







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"Men can do all things if they will"

Leon Battista Alberti



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#### GEZE UK 'Family' Celebrates 30th Anniversary

2018 is a milestone year for GEZE UK, which celebrates 30 years in the business as a 'go to' manufacturer and supplier of innovative door and window solutions. GEZE UK, is part of the global GEZE GmbH, a family-run business where traditional values are combined with pioneering strategic vision. So, it was entirely fitting that to mark three decades of business success, its UK workforce and their families should enjoy a fun-filled family day of celebrations, hosted at Rodbaston Hall, near Penkridge in Staffordshire.

Kaz Spiewakowski, GEZE UK's managing director – who himself celebrates five years at the helm this year – said that "GEZE was most definitely "a family business" and this is reflected in how it treats its employees.

"There are family members engaged in the business at all levels and GEZE considers each and every member of our 250-strong team very much part of the extended 'family'. Everyone contributes so it was wonderful to get together this September to enjoy some downtime, celebrate our achievements and toast our continuing success in the years ahead," he said



2018 was also a milestone year for head of the GEZE family, Brigitte Vöster-Alber, chief executive officer of GEZE GmbH, based in Leonberg, Germany, who this summer celebrated

50 years with the company. Taking over in 1968 at the age of only 24 years, Brigitte asserted herself in a man's world and has since developed corporate strategy, the product portfolio and international business whilst continuing to champion the visibility of females within the workplace. www.geze.co.uk.



#### Hauraton Product Literature Update

Hauraton have updated their technical literature of the most popular Landscaping and Civils surface water drainage channel systems with separate full colour publications, including: Landscaping: RECYFIX® PRO, RECYFIX® PLUS, RECYFIX® SLOTTED,

Civils: RECYFIX® MONOTEC, RECYFIX® NC, FASERFIX® KS, FASERFIX® SUPER, RECYFIX® HI CAP

Architects, main contractors and groundworkers can request hard copies by telephone 01582 501380, or download PDF versions via www.hauraton.co.uk . CAD installation drawings and BIM objects can also be downloaded from the website. Hauraton supports specifiers and installers with project specific proposals, including expert specification and technical advice from the initial survey through to completion. For Case Studies featuring many Hauraton drainage products go to www.drainage-projects.co.uk

#### Lanes Group Invests £1M In Latest Pipe Lining Technology

The UK's largest independent drainage and utility specialist, Lanes Group plc, has invested over £1million in new and more sustainable pipe lining technology. The purchase of three new dual-core ultraviolet light cured-in-place-pipe (CIPP) lining systems significantly adds to the company's sewer rehabilitation capability.

The technology can also be used for lining process pipes, including ones needing chemical resistance. Two of the UV systems will line pipes with diameters from 150mm to 1600mm. The third is mounted on three rail pods and will line pipes with diameters of up to 1200mm.

The package includes two new robotic cutters, for preparing pipes for lining, and opening lateral connections, adding to a powerful range of remote cutting equipment already in service



with Lanes. The equipment, supplied by ProKASRO, is housed and carried in new low-emission trucks, adding to the already impressive sustainability credentials of UV lining as a method for rehabilitating pipes. The Lanes Sewer Lining and Rehabilitation Division offers a full range of lining technologies, including UV, hot water, and ambient CIPP lining. www.lanesfordrains.co.uk

#### New Bradite Coating "Will Take Market By Storm"



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British manufacturer of high quality protective coatings Bradite is set to take the specialist paint market by storm with the launch of a new multi-purpose product that is suitable for use on all surfaces.

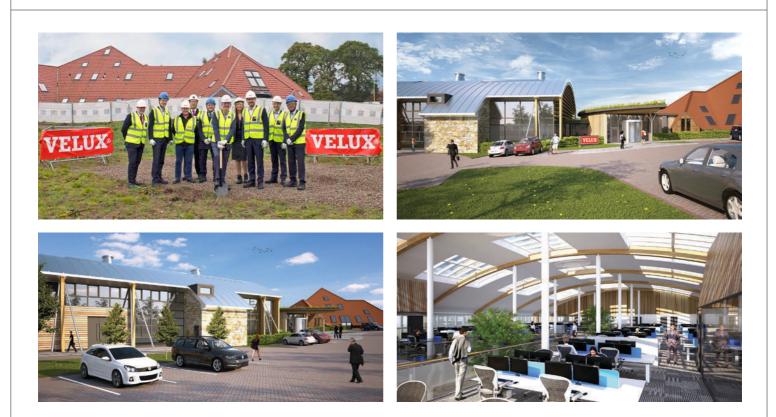
Bradite 'One Can' is an interior and exterior, anti-corrosive, quick drying, low odour, low VOC, primer, undercoat and finish. It offers the decorator a single pack, direct-to-substrate paint that provides superior stain locking and adhesion properties.

The high-performance coating will give protection to many substrates. In addition, 'One Can' gives excellent stain locking

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properties. It will block stains and lock them in the coating even hiding tanning, knots and resinous bleed when applied to hardwoods, as well as locking in water stains. 'One Can' also gives excellent anticorrosive protection making the product ideal for application to all metals, both ferrous and nonferrous, including brand new galvanised steel. www.bradite.com

News



## VELUX Announces £7Million Expansion In Fife

Roof window manufacturer VELUX® Company Ltd has today announced a £7million expansion to its iconic UK and Ireland head office building at Woodside Way in Glenrothes, Fife.

A new customer service centre, training facilities, office space, meeting suite and a staff restaurant will be housed within a 3,500 metre new build structure, which Glasgow-based main contractor ISG will deliver by autumn 2019.

The building has been designed by Sinclair Watt Architects to sit alongside the existing head office, which features 200 VELUX roof windows. The new building will showcase the VELUX Modular Skylight System, alongside VELUX flat roof windows and sun tunnels.

Mick Schou Rasmussen, managing director of VELUX UK and Ireland, said: "Once completed, the new building will provide our existing employees with a much improved working environment and accommodate any increase in headcount in the future. The new building has also allowed us to decrease our estate's footprint by selling off a number of vacant buildings to growing local businesses, in turn boosting the local economy. VELUX is committed to having a strong presence in Glenrothes, Fife, so it is great to see work start on the new building at a time when the company is going from strength to strength." Councillor Altany Craik, Convener of the Economy, Tourism and Strategic Planning Committee at Fife Council said: "It is fantastic to see a local business expanding and growing like this. This new building looks very impressive and showcases many of the company's products. There is no doubt this will help VELUX continue to be a leading roof window business in the UK and it clearly shows their commitment to developing their operation in Fife." www.velux.com

> Left to right: Councillor Altany Craik, Anders Dam Vestergaard, Sandy Page, James Connelly, Sam Small, Keith Riddle, Pamela Stevenson, Mick Shou Rasmussen, Peter Bang, Michel Langrand.

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News



## Cupa Pizarras' Cupaclad® Gets BBA Certification

CUPA PIZARRAS' CUPACLAD® 101 and 201 slate cladding systems are now BBA Certified - an industry recognised symbol of quality, safety and reliability.

For use over external masonry, concrete, timber and steel frame walls, CUPACLAD® rainscreen cladding is made from highly durable tectonic slate to create a completely sustainable alternative to other cladding systems that is lightweight and easy to install. 101 series CUPACLAD® uses a totally invisible fixing system and is available in three designs, while 201 series has a visible fixing system.

The 101 and 201 systems were independently assessed across a number of key factors including strength and stability, behaviour in relation to fire, air and water penetration and durability. The certificate verifies that in normal UK exposure conditions, the systems will have a service life in excess of 35 years. Julian Gomez, Director of Marketing at CUPA PIZARRAS commented, "CUPACLAD® opens up a world of options for designing with natural slate. It is a competitive, totally sustainable alternative for cladding any type of façade and can be adapted to any architectural design. With the BBA certification for CUPACLAD® 101 and 201, specifiers can also be assured of the systems' long term



For more information on CUPACLAD® and CUPA PIZARRAS' natural slate roofing and cladding, please visit www.cupapizarras.com/uk.



performance too."

News

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## Market Survey Shows Rinnai Tops For Quality Product In Continuous Flow Water Heating

Plumbing and heating engineers have reviewed and rated Rinnai continuous flow units and systems as a leader in a recent survey into hot water heating delivery systems and products, identifying the company as having 'superior quality' to competitor products.

The survey showed respondents - all Gas Safe registered engineers - answered questions regarding overall satisfaction, brand awareness and product quality. Rinnai came top on product quality - and technical service, in particular.

Over 70% of those surveyed stated they were regular customers and identified 'strongly' that 'quality of products' and no 'call backs to site' as being the main reasons for their views. Over 65% of respondents said that the quality of Rinnai's product offering is 'superior' to the claimed market leaders with a further 85% indicating that the brand, including all elements of product range, reliability, innovation and customer service, is a genuine market leader.

Rinnai units and systems are now the number one choice for large buildings and businesses with a heavy demand for constant hot water or where high peaks of demand occur at certain times. The water handling capacity is infinite as units can be installed to 'cascade'.

The benefits for the end user are big savings on fuel over other forms of water heating solutions, with the added advantage that there is no need

to give up valuable space to install a cylinder. And there are no standing losses to account for as occur with traditional stored hot water systems. The Rinnai system produces useable hot water on demand, at the turn of a tap or the push of a shower button. The relatively compact footprint of the units also means they can be housed in tight spaces and still be easily accessible for maintenance and servicing.

According to Rinnai's Chris Goggin: "We believe our range represents the best value-for-money commercial hot water solution on the market today, and it can be delivered direct to site in one complete, easy to manage package. Its impressive energy performance ratings also make it a highly desirable development at a time when everybody is looking at decreasing energy bills and maximising energy efficiency."

The condensing process delivers 95% thermal efficiency, which translates to significant energy savings when compared to standard on-demand water heaters. Rinnai's high efficiency condensing range of continuous flow water heaters, including the HDC1500 with its 96-97% gross efficiency, covers a vast number of requirements.

Rinnai condensing continuous flow water heaters are low NoX, less than 50mg with gross efficiencies of 96-97% and recovery of 740 litres per hour at 50° Delta. All units are A rated on ErP. www.rinnaiuk.com

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#### Stelrad Partners With Newcastle Falcons

Stelrad Radiators has become Premiership rugby's Newcastle Falcons principal partner. The two-year partnership, with an option for a third year, will see the company's name and logo on the front of the Falcons' playing shirts, with Newcastle looking to kick on from their best season in 20 years.

Finishing fourth in last season's Premiership, the Falcons' home attendances in the competition grew 42% on the year before,



Newcastle also reaching the semi-finals in both cup competitions. Playing Heineken Champions Cup rugby this coming season for

the first time in 14 years, the new principal partnership deal with Stelrad Radiator Group continues the flow of optimism around the club.

Last year the Falcons had the Premiership Player of the Season, Director of Rugby of the Season and joint-top Try-Scorer of the Season as well as an average Premiership attendance of over 10,000 for the first time ever.

Find out more about Stelrad at www.stelrad.com

#### New Water Treatment Product Cuts Plastic Waste

The RedProtect<sup>©</sup> water treatment system from FLAMCO offers the heating industry the ideal opportunity to reduce the amount of plastic waste generated after use of the chemical, in line with global and local opinion

on plastic waste in the environment. Compared to traditional liquid domestic heating chemicals, the RedProtect© system offers approximately an 84% reduction in plastic packaging content when compared to a



traditional one litre chemical jerrycan and an approximately 77% reduction in plastic when compared to a standard 0.5 litre chemical bottle.

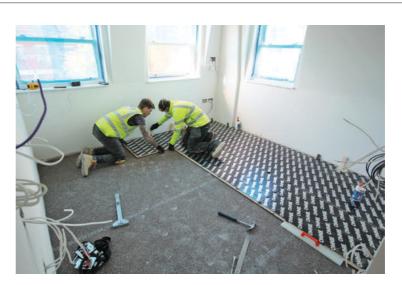
Of the 12.9 g of plastic in the RedProtect<sup>®</sup> product, all 100% is recyclable. As a solid product - the RedProtect<sup>®</sup> chemicals come in a solid tablet format, unlike virtually all other water treatment products that come as liquids or gels - Flamco can guarantee there will be no spilling and no leaks from the new RedProtect<sup>®</sup> range. To find out more head for www.flamco-redprotect.com

#### Lowboard Provides Ideal UFH Solution For Fit-Out Of Central London Flats

A complex and time constrained redevelopment contract in central London is making extensive use of 'LowBoard22' underfloor heating panels, as well as other products from the OMNIE range, to offer optimum comfort and flexibility of living space for its future residents. The site in Hermes Street, a short walk from the Angel Tube Station, is being developed by MY Construction & Carpentry Ltd. being the main contractor for the project. The work has seen an existing property demolished, being replaced by a five storey structure with office accommodation at ground and first floor level while the upper storeys are being fitted out to create half a dozen dwellings.

With overall storey height restricted by planning, the developer wanted to maximise the headroom within the high-

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spec apartments, while facilitating a rapid build programme which would also leave the interiors walls free of radiators. The layout by architects, Bickerdike Allen Partners, features three two-bedroom flats on the second floor, with a further pair, plus a three-bedroom apartment on the floor above. The latter's kitchen and living room area will be located on the very top floor of the building again using the LowBoard22 to deliver space heating.

The LowBoard22 panels are a widely specified and very popular product within OMNIE's UltraLow offering with an overall panel depth of 22mm, accommodating 12mm diameter pipe runs. This offers low water volume while the relatively small diameter pipe is also easy to push into the precisely routed board profiles. Each room is typically taking some 70-90 metres of pipework, connected back to OMNIE's own Precision-Flo multibranch manifolds. With the addition of thermostats and 7-day programmable timers, these create individual zones, whose low temperature hot water (LTHW) circuits will enable each dwelling's condensing combi boiler to deliver optimum efficiency. www.omnie.co.uk



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#### LG Wins Award At Cooling Awards



LG has won the Air Conditioning Innovation award at this year's Cooling Awards in London with its Multi V S Heat Recovery VRF system.

An industry first, this front discharge, Multi V S Heat Recovery model, fits the gap between Multi Split systems and large VRF systems.

The Multi V S Heat Recovery offers a host of unique LG technological

developments, including LG's own 5th generation compressor equipped with a High Sided Shell (HSS) and a new Polyetheretheketone (PEEK) bearing which allows an all inverter system compressor to operate between 10Hz - 165Hz, increasing partial efficiencies, extending capacity, and increasing reliability. LG's Multi V S Heat Recovery VRF solution is perfect for buildings where space is at a premium. It offers superb energy efficiency, strong, quiet performance and unbeatable flexibility. Find out more at partner.lge.com/uk

#### Tower Blocks' Fire Alarm Systems Raised To Top **Category Protection With Aico**

Watford Community Housing has completed the installation of Grade D, LD1 fire detection systems in two 16 storey tower blocks using Aico Multi-Sensor Fire Alarms and accessories, wirelessly

interconnected with Aico's RadioLINK+ RF technology. Aico's Multi-Sensor Fire Alarm uses two sensor types, optical and heat, to constantly monitor smoke and heat levels which are processed through intelligent detection software to provide the best response to all fire types, as well as reducing potential false alarms;



the latter is enhanced through a dust compensation feature. Three to four Multi-Sensors have been installed per flat, plus an Ei164e Heat Alarm in the kitchen and a wall mounted Ei450 Alarm Control Switch. www.aico.co.uk

#### Effective Heating Controls From ESi

ESi offers a range of programmers from a simple one channel version to a three channel version Multi-purpose programmer which enables a housing provider



to comply with Part L of the Building Regulations by providing separate timed heating control for living and sleeping zones in a home, whilst also providing timed control of hot water.

These programmers also feature a "landlord" option to encourage social housing tenants to allow access for annual maintenance, often a real challenge for social landlords.

Most homes in the UK still tend to have a single heating zone - and the only control in the rooms is by thermostatic radiator valves - TRVs. When a new central heating system is installed it's possible to fit a full zone control that has different pipe loops and separate thermostats for two or more areas. This can offer significant energy savings. www.esicontrols.co.uk

#### Timeguard's LEDPro RF Puts The Homeowner In Control

Timeguard has added an RF-enabled PIR controller to its range of mix-and match Nighteye PRO outdoor LED lights. That means that once the light has bene installed outdoors, it can be controlled from anywhere in the house or garden using hand-held RF fobs.

Even better, the fobs are designed so you can also fit them into a standard switch backbox, behind a decorative switch plate of your choice, and give occupiers fingertip wall switch control wherever they want it, without the need to chase wires to the switch. Connecting wires are supplied with the fobs.

The PIR switch units can be used with any of the floodlights in the Nighteye PRO range - now ranging from 10W to 100W and available in black or white. Slave floodlights are available and terminals are provided for easy looping out so that one RF controller can be used to switch up to six LED floodlights.

#### Global Future For Renowned UK Brand

www.timeguard.com

The leading UK manufacturer of pipes, valves and fittings, is drawing on hundreds of years of expertise



from within the UK and across the globe to be the UK's only Integrated Piping Systems provider to the plumbing and heating industry. Pegler Yorkshire, part of the Aalberts Group, will be bringing together its technologies under the iconic brand name of Pegler.

Phill Jackson, Marketing and Business Development Director Pegler commented: "This is a truly exciting time for us, we are renowned for our expertise in valve and fitting technology for domestic, commercial and industrial applications and have now combined this knowledge together with Dutch

group member VSH to create a seamless integrated piping system solution for applications across the board." www.pegleryorkshire.co.uk

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## Rinnai: The 1200i Continuous Flow Hot Water Heating Unit - For Every Commercial Site

Now available from Rinnai UK, manufacturers of the world's leading continuous flow gas-fired hot water heater units and systems, is the HDC 1200i continuous model for use on all high demand commercial sites. It is capable of delivering in excess of 1560 litres per hour. It guarantees unparalleled levels of efficiency and hot water delivery for the end user whilst streamlining installations and guaranteeing future regulatory compliance.

This precision engineered water heating unit can also be combined as multiple units into one single, easy to handle module incorporating cascade frames and common flue. Both the HDC 1200 internal and external models turn in a market leading energy performance of 107% net efficiency and offer superlative ranges of modulation as the systems internal analytical system can modulate the burner modulation range from 54kw to 2.4kw. The Rinnai HDC 1200 is engineered for minimal energy wastage and maximum energy performance.

It is worth remembering that Part L of the Building Regulations 2013 has set minimum thermal efficiency levels of 90% for natural and 92% for LPG, consequently outlawing non-condensing gas fired water heaters for use in new build projects.

Rinnai is the only manufacturer that can supply a complete range of



internal and external ultrahigh efficiency condensing continuous flow water heaters, aligned not only to comply but surpass changes on the regulatory horizon.

Rinnai units and systems are now the number one choice for large buildings and

businesses with a heavy demand for constant hot water or where high peaks of demand occur at certain times. Any number of modules can be manifolded, so the water handling capacity is truly infinite and there is no risk of the 'cascade' of hot water ever running out.

The manifolded 1200i units can be delivered direct to site in one complete, easy to manage package and at a very competitive price. For the end user this guarantees considerable cost savings over other forms of hot water generation. The relatively compact footprint of all Rinnai units and systems means it can optimise plant room space and safeguard accessibility for maintenance and servicing.

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There is huge potential for on-demand style water heaters such as the Rinnai HDC 1200i units to play their part in new build and in refurbishments projects alike, where in the latter there are still many old systems that need replacing. By replacing this older technology with new condensing appliances will help support the UK drive towards greener industry.

The Rinnai Infinity HDC 1200i water heater uses heat exchanger technology to allow the largest capacity flow rates, thereby guaranteeing all the hot water needed, when it is needed. As well as increasing capacity, the Rinnai Infinity water heater has lower greenhouse emissions because of the new reduced NoX burner technology and as there is no storage, this scores well with BREEAM.

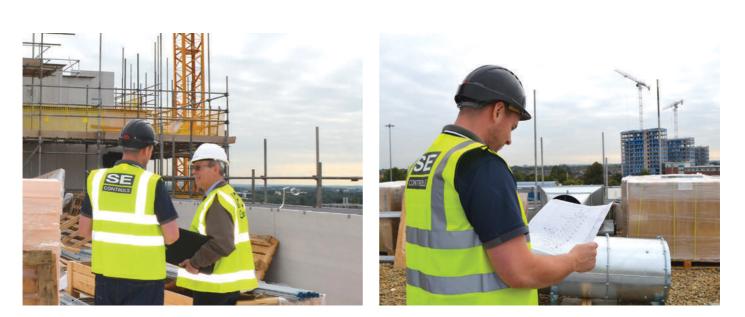
Available in both internal and external versions, HDC 1200i gives end users 105.5% net efficiency as the condensing process delivers up to 95% thermal efficiency, translating into significant energy savings when compared to standard tankless water heaters.

With a continuous flow water heating unit, it will deliver limitless amounts of useable hot water, whatever the site - school, hospital, hotel, office blocks, leisure club etc with no fluctuations in water delivery temperature. The only time the site uses energy to heat water is when there is a demand, in other words, it is only burning gas when a tap or shower is being run.

For more information on the RINNAI product range visit www.rinnaiuk.com

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## Setting The Standard – SE Controls Becomes The First SCA IFC SDI 19 Certified Company

SE Controls has become the first company to be approved under the new SDI 19 certification scheme, which has been developed by the Smoke Control Association (SCA) in partnership with IFC Certification and has been introduced to help raise standards across the industry.

Developed to ensure a suitable level of competency is maintained in all aspects of smoke control systems, the scheme also covers a contractor's ability to provide appropriate levels of service and maintenance following installation and commissioning, in line with a building's type, size and use.

Such is the importance of the recently introduced initiative that it is now mandatory for any SCA member involved in the installation of smoke control systems to achieve the accreditation as a condition of membership.

To become certified under the scheme, businesses must demonstrate their experience in fire strategy verification together with the design, installation and commissioning of smoke control systems in accordance with the relevant standards and industry guidance documents, including Approved Document B and BS7346 Parts 4, 5, 7 and 8. SE Controls is the first company to complete the IFC SDI 19 certification process including detailed internal office and external site audits.

SCA Chairman, David Mowatt, explained: "The independent review of building regulations and fire safety supports clear cultural changes in the procurement, design, construction and maintenance of buildings and building systems in order to deliver safer buildings. Contractors should be responsible for the systems they install and end users should always look to use a capable, experienced contractor."

IFC Director of Certification, Ian Woodhouse, said: "Since the launch of this scheme in June of 2018 we have already received a number of applications and companies are currently progressing through the certification process. This is not only encouraging, but also underlines the importance that the industry assigns to raising competency standards and improving the quality of companies involved in installation activities. We're proud to be a key part of this initiative in partnership with the SCA."

Will Perkins, Group Managing Director of SE Controls, is delighted with the company's new status and commented: "As a long-standing member of the SCA, we have always maintained high quality standards in all aspects of our business, as well as supporting the SCA's efforts to raise the standards across the industry. This new scheme raises the bar for the smoke control industry and ensures that competence, credibility, quality and skill levels are not only improved, but recognised through the auditing and certification process."

He added: "For over 35 years we have been at the forefront of our industry. Our expertise combined with our range of 'Tested Solutions' enables us to provide compliant products and solutions to the highest level, whilst also underlining our commitment and responsibility for the reliability of our life safety systems. Helping to improve industry standards has been a long-term commitment for us so it seems fitting that SE Controls has become the first company to achieve IFC SDI 19 and we hope many more will follow."

For more information visit: www.secontrols.com, tel: 01543 443060 or email: info@secontrols.com

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#### Georgian Bars Add Glamour To Prestbury Road

Situated in Wilmslow, Cheshire, this residential project juxtaposes minimalistic modern interiors with traditional Georgian window design. The stunning frames have been created by leading aluminium suppliers Reynaers and fabricated by Bespoke Design Glazing to create a truly unique dwelling. The layout incorporates a large kitchen, dining and lounge area with elevated ceiling heights and sizable window areas that blur the boundaries between inside and out, opening onto a large terrace area that is perfect for entertaining and fluid family living.

The eye-catching doors that embellish the rear façade of the project have been achieved by using two inward opening double Reynaers SL 38 doors that are encased by two fixed SL 38 windows across the living and dining area, adding classical Georgian symmetry to the property.

The SL 38 offers optimum comfort, safety and energy benefits and is available in three different frame styles, Classic, Ferro and Cubic, to perfectly match the architectural aspect of a building. The window and door are available in double and triple glazing without losing the ultra slim look.

The impact of the façade is elevated further by the bold yet elegantly designed

and energy benefits and is available ro and Cubic, to perfectly match the dow and door are available in double and look. er by the bold yet elegantly designed e softly-hued interior finishes and draw the eye towards the rolling countryside views. Modern properties

glazing bars in a jet-black that contrast the softly-hued interior finishes and draw the eye towards the rolling countryside views. Modern properties achieve this elegant Georgian grid effect by adding surface mounted bars onto the inside and outside of a window or door. This allows for just one pane of glass to be inserted, offering traditional aesthetics with all the benefits of modern performance qualities. www.reynaers.co.uk.

#### Steel Window Association Welcomes Crittall

Crittall, the U.K.'s largest designer and manufacturer of steel windows and doors, has announced that it has joined the Steel Window Association (SWA) the industry trade body that represents the majority



producers in the sector. The SWA supports its member companies

of UK

with a wide-ranging service relating to product development, market research and promotion and the helps ensure that each member operates to the highest industry standards. Commenting on the announcement Crittall Sales and Marketing Director Russell Ager said, "We are delighted to now be part of the SWA and look forward to working actively with other members in promoting the technical and aesthetic benefits associated with steel windows across the domestic, commercial and specialist security window markets ".

www.crittall-windows.co.uk www.steel-window-association.co.uk

#### When the Going Gets Tough

The chance to reflect on suitable solutions for toughened glass is now available from GEZE UK which has produced a new product guide and price list. SGG Solutions for Toughened Glass is a comprehensive



guide to an extensive range of products available for fitting frameless toughened glass doors. The brochure includes full glass preparation diagrams and technical performance information and is designed to enable specifiers to choose the most suitable products for their needs.

It provides a wealth of solutions suitable for single and double action doors, pinch free doors, internal and external doors. SGG fittings can be used with a variety of glass thickness – including 8mm, 10mm and 12mm as standard, with 15mm and 19mm also available.

The range is modular so all fittings complement each

other allowing a huge variety of different designs and configurations. Details of finishes are highlighted including mill, satin anodised aluminium (SAA), satin stainless steel and polished stainless steel. www.geze.co.uk

#### Schueco's Outward-Opening Window Viewed As 'Go-To' Solution

Originally launched in 2014, the AWS 70 SC outward-opening aluminium window from Schueco UK delivers Schueco's renowned 'build quality' at an economical price. Its versatility and excellent performance in use means that many specifiers now view the Schueco AWS 70 SC window as the 'go-to' solution for projects where high quality is paramount but budgets are tight.

The Q Mark product certification that it was awarded in 2017 has further boosted its popularity. With a depth of 70 mm, slim sightlines from 63.5 mm (outer frame/vent) and a choice of five vent profiles offering optimum cost/size/weight options, Schueco AWS 70 SC is ideal for punched openings, ribbon windows and curtain walling. The system can accommodate double- or triple-glazed units and achieves a typical 'U' value of 1.6 W/m<sup>2</sup>K with 1.0 W/m<sup>2</sup>K glazing units. Fittings include a choice of standard or heavy-duty stainless-steel friction hinges, together with multipoint locking for large vents. www.schueco.co.uk



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## Convenient Automatic Access For Convenience Store

Working with Smart Aluminium Ltd, TORMAX has installed an automatic sliding door system to a new Co-op store in Dudley. Using the reliable TORMAX Windrive 2201 door operator, all customers are welcomed into the shop with ease of access.

"Automatic entrance systems are the obvious choice for busy stores such as this," comments Simon Roberts, md for TORMAX. "In addition to ensuring quick access into and out of the shop for everyone, it is also an environmentally sound solution. Rather than having an 'open door policy', heat loss from the Co-op is minimised thanks to our hitech sensors that react with speed and precision to an approaching customer."

The new Co-op is the result of a £500,000 investment, with main contractor for the project being Thomas Roy Ltd, working with national architects, Corstorphine + Wright.

The development brings much needed local shopping convenience to the community. The in-house designed Windrive 2201 has proven its reliability and performance in busy locations worldwide. A cost-effective solution, the Windrive 2201 operator is not only easy to install but also quick to programme for everyday use. Measuring just 142mm x 100mm the drive is surprisingly slim, often allowing automatic sliding door access in tight locations.

However, it is still a powerful operator capable of powering either a single-leaf door of up to 120kg or a double set of doors weighing 100kg per leaf and providing an impressive pass-through space of up to 2000mm. For out-of-hours security, an optional electromechanical lock offers a secure and solid system that effectively reduces the risk of break-ins. www.tormax.co.uk

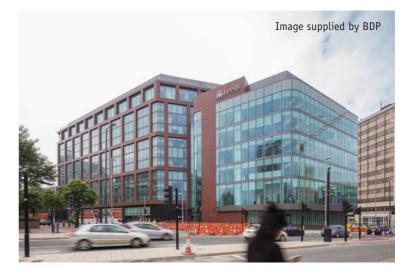
#### Bespoke Design From FGS Transforms Leeds Council Offices

FGS's contracting team (formerly Glassolutions Contracting) has helped transform a tired 1970s Leeds City Council office block into an innovative public-sector building, helping to improve the thermal efficiency and aesthetics of the building.

Merrion House is an iconic concrete tower block in Leeds City Centre. Designed by architects BDP, the work has breathed new life into the 170,000 sq ft of office space, including the creation of a 50,000 sq ft new six-storey extension. FGS supplied SGG Cool-Lite Xtreme 60-28ii sealed units to deliver thermally superior windows without compromising natural light transmission or causing summertime overheating.

The solar coating allows high natural light transmission to create an all year-round brighter interior, whilst limiting solar gain to reduce the reliance on costly air-conditioning, particularly important for a fully glazed working environment.

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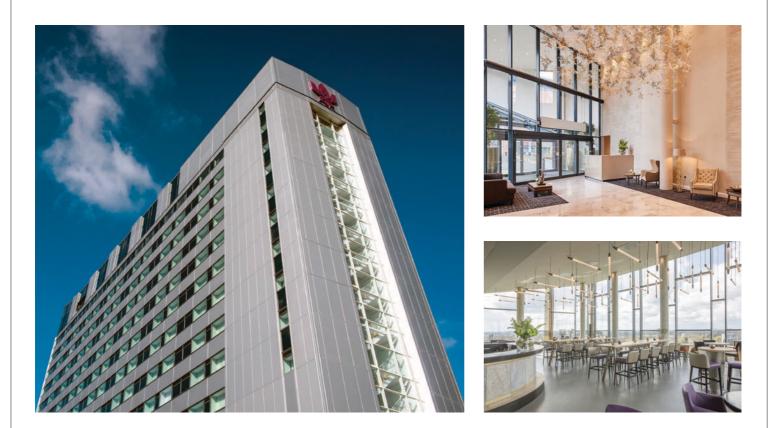


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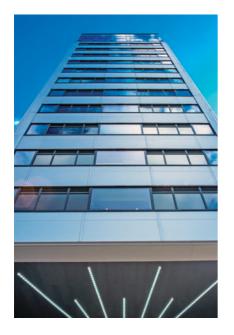
FGS's unique VS-1 curtain walling system was used to deliver clean sightlines and streamlined aesthetics on the new atrium extension. The system allowed the architect to reduce the number of horizontal steel supports and the strength of the mullions allowed glass spans of up to 9m. Additionally, the system's absence of transoms increased the amount of natural daylight coming into the building, as well as giving users an unimpeded view from the windows. The WICONA WICTEC 60 stick system curtain walling was installed to create the remainder of the building envelope, offering a narrow face width of 60mm and giving a filigree appearance. Hung from the curtain wall is a bespoke Corium brick slip system, fitted both horizontally and vertically, used to give a modern finish to the building. Use of the Corium system helped reduce onsite construction time, thanks to the profile being prefabricated off-site. www.fgs-uk.co.uk



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## Comar Are Welcome Visitors to Park Regis Hotel



International hotelier Park Regis have opened their first European hotel in Britain's second city Birmingham. Towering over the skyline at 16 storeys the £50 million pound hotel offers 254 rooms, a gym, various bars, business and conference centres and a 2 storey glazed terrace sky bar delivering high end dining to Birmingham. Comar Architectural Aluminium Systems were selected to provide the façade with curtain walling, windows and entrances. The key element of design for the Rofuto Sky Bar was to allow diners to enjoy clear uninterrupted views across the city, a double height Comar 6EFT Curtain wall was selected as it offers strength with a sleek 50mm sight-line. This ground breaking system, leads the way by offering a 50mm stick system with the capability to span further as the mullions and transoms have the highest Ix and Iy values on the market today.

The profiles were finished in RAL 7016 Matt Grey which seamlessly blends into the mahogany, cream and gold interior. All structural calculations were carried out by Comar's Special Projects Team who ensured all Comar bracketry and fixings will withstand any sway, dead or live loads.

Comar's interface range of adaptors allowed the Comar 5Pi Advanced Windows to seamlessly integrate with the differing cladding elements.

Moving to the base of the building, Comar 6EFT capped curtain walling was used. Comar 6EFT interfaces with the dramatic angled cantilevered entrances. For this element of the face design the detailing and installation had to be precise to ensure that drainage and seals create a future-proof water tight solution.

Integrated into the curtain wall the entrances have to provide both a statement of welcome and ensure uninterrupted access. Often the first experience of a hotel is the entrance, which needs to provide form as well as function. The Comar 7P.i Commercial Door system is one of the most comprehensive on the market today. Sections are robust and offer an ideal solution for high traffic entrances. The doors selected were auto sliding which allow uninterrupted passage into the double

storey entrance lobby. www.comar-alu.co.uk

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#### Glassolutions' Installations Business Relaunches As FGS

Glassolutions' Installation business has relaunched as Facades & Glazing Solutions UK Ltd (FGS) following its sale to private investment firm CoBe Capital. FGS will retain the full activities, assets and employees of the **Glassolutions Installations** business, now operating as an independent contracting, commercial glazing and insurance services business. Whilst FGS takes on the assets, activities and employees of an established business, there will be a transition period whilst it implements IT



and system infrastructure to replace shared group services currently supplied by Saint-Gobain.

The Rotherham-based business, which was formerly part of Glassolutions UK, has retained its existing team which has developed long-lasting, strategic relationships with some of the largest and most reputable companies in the country for more than 25 years. It will continue to operate throughout the UK, partnering with main contractors, leading insurers, facilities managers and property owners to provide a complete 'glazing' building life cycle solution. www.fgs-uk.co.uk



#### Schueco Slimline Façade System Offers Unrivalled Elegance And Performance

The compelling combination of extreme visual elegance and excellent thermal performance makes the ultra-slimline FWS 35 PD panorama design façade from Schueco UK the ideal system solution for low-rise, high-end residential and commercial projects. A particularly attractive feature is the frameless glass-to-glass corner option that eliminates the need for an intrusive corner profile by transferring the glass load directly onto the adjacent mullions. The result is wider unobstructed views from the inside and a sleek contemporary look from the outside. The FWS 35 PD façade is offered with a choice of two levels of insulation – .HI (highly insulated) or .SI (super-insulated) – the latter being officially certified by the Passive House Institute with a Ucw value of 0.79 W/m<sup>2</sup>K. mkinfobox@schueco.com www.schueco.co.uk

#### A Deprived Building And Local Community Receive Something To Go 'Ping-Pong' Over

Christchurch, 35 Cosway Street, was granted a Grade II\* Listing in 1954. It is a distinctive deconsecrated church in the Lisson Grove Conservation Area. Greenhouse Sports was founded in 2002 as a sports coaching charity and initially provided young people something positive to do in the holidays. Demand grew and Greenhouse merged with another charity; Table Tennis for Kids (TTK). Recently, they acquired 35 Cosway Street and have refurbished the building into a state of the art sports centre.

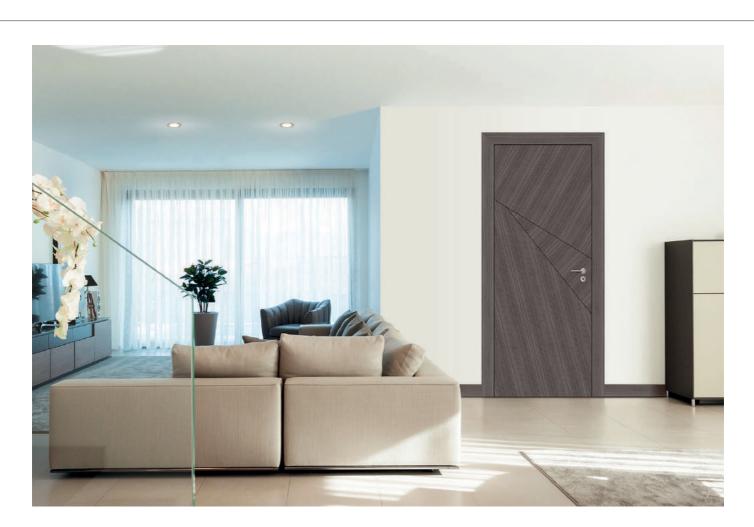
Latitude Architects was engaged to work on the renovation. Sound insulation was imperative to stop noise escaping and disturbing local residents. Therefore, Latitude architects specified secondary glazing to provide sound insulation. Cosmur Construction (London) Ltd, approached Selectaglaze to discuss the treatment and scheduling of secondary glazing works to the windows.



88 units were installed; a combination of Series 42 fixed lights, as well as Series 80 3HS contra sliding units. Some of the Series 80 weighed over 130kg when all assembled, so fixing points had to be checked for their strength to maintain integrity of the installation. The transformation is remarkable and has given the space a new lease of life, which will benefit the local residents for years to come. Established in 1966 and granted a Royal Warrant in 2004, Selectaglaze is the leading specialist in the design, manufacture and installation of secondary glazing. Selectaglaze has vast experience in working on all building types from Listed offices to new build hotels. For further information, please contact Selectaglaze on 01727 837271/e mail: enquiries@selectaglaze.co.uk or visit: www.selectaglaze.co.uk

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## **Create Transform Innovate**

Designing doors is an art form which comes naturally at Vicaima. Blending on-trend colour tones and surface materials such as veneer, laminate and foil with lacquers and stains to elevate the simply to surprising. Capturing truly fresh ideas that have the ability to harmonize with an existing theme or completely transform their surroundings.



Among the many recent creations to make the leap from drawing board to reality are two new additions to Vicaima's Exclusive range. The Ex20 collection blends the purity of white, acting like a canvas to off-set striking and modern grain patterns, forming a door which is almost abstract art. This

collection presents no less than five models and offers a choice of grained tones, including Dark Ebony, Bleached Oak and Zebrano in both Golden and Rouge.

For designers and specifiers looking for a more geometric style, the Ex70 collection displays multiple grain directions intersected by a commanding jet black and curved groove. These real Ash veneered doors come in four models and are stained in a choice of contemporary tones, which include Warm Umber, Dark Taupe and Charcoal Brown; making them perfect for modern environments

Of course innovation is not only confined to the appearance of a Vicaima door. The beauty of these products go far more than skin deep. With manufacturing expertise that has been honed for almost 60 years, Vicaima performance solutions in acoustics, security and of course fire doors, are widely recognised in the industry as a benchmark to which many aspire. This and Vicaima's suitability for multiple locations makes them an ideal choice for luxury living, hotels and commercial applications.

If you would also like to know more about Vicaima's latest collections or indeed any of the design and performance solutions provided, visit the website www.vicaima.com. Alternatively call 01793 532333.

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## Safety Glass Cladding Wins Outstanding Fire-Resistance Accreditation

A cladding system based on a unique safety glass has achieved an outstanding A2 fire-resistance accreditation and is now available to architects and specifiers looking for product re-assurance in the post-Grenfell environment.

Chromatics safety glass has undergone extensive testing by Exova Warringtonfire who awarded it an A2-s1-d0 'reaction to fire' classification. Class A2 means the product is non-combustible as no flashover occurs; s1 is the lowest level of smoke generation and d0 the lowest level for production of flaming droplets or particles. The system is also lightweight, being up to half the weight of traditional glass cladding solutions.

Not a toughened glass, Chromatics is extraordinarily resilient as a result of bonding together, at a molecular level, glass, organic colour process and metal. This results in a laminate that is visually stunning, durable and opaque and when encapsulated between annealed glass and aluminium gives world's first optically flat, shatterproof, bomb blast resistant, thermally safe and impact resistant laminate that can be cut, edge worked and drilled after processing.

A full range of RAL colours is available. As an alternative, high definition imagery may be specified. www.chromaticsglass.com

## Shining Light On A Centre Of Excellence

The Foyle Arena in Derry uses large areas of Kalwall<sup>®</sup> for the pool area and sports hall elevations in order to minimise glare and maximise natural daylight. Designed and specified by architects Samuel Stevenson & Sons, this centre of excellence forms part of the North-West Regional Sports Campus. The Kalwall is a key component of the £12.7m re-development with double indoor swimming pool coupled with new facilities for Judo, Wrestling and Mountaineering.

During the day, the Kalwall enhances daylight and distributes it internally without shadows and glare while at night it creates a welcoming glow with scallop-shaped backlighting. The unique ability to transmit large amounts of usable light with relatively low levels of solar heat gain

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means less radiant energy transmitted and this, coupled with diffusion, does away with the hot spots and glare. With increased natural daylight and resistance to solar gain, energy-consuming artificial lighting and air-conditioning costs are dramatically reduced.

Kalwall is highly resistant to impact, making it excellent for use in schools, leisure facilities, gymnasia, offices and other public buildings. It is particularly popular for swimming pools and sports halls. Glare on a swimming pool surface is a common concern with dazzling rippled sunlight bouncing off the surface which can cause discomfort to swimmers. In addition, it can be a serious safety concern as lifeguards can struggle to see swimmers should they be in need of assistance. In sports halls, it is also important that there is an even distribution of light so that players can distinguish markings on the floor as well as easily spotting balls and other obstacles. ww.structura-uk.com/kalwall

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## Levolux Fins Chosen For Belfast Studios

The new  $\pounds 20$  million purpose-built Belfast Harbour Studios provide the optimum conditions for shooting major film productions, partly thanks to an external solar shading solution, courtesy of Levolux.

Designed by RPP Architects, the new studio development resides within the 340-acre Giant's Park development, which was formerly a landfill site

on the outskirts of Belfast. As the UK's leading solar shading specialist, Levolux was invited to develop a custom solution applied externally to a three-storey office building at the heart of the studio complex. The building's west-facing elevation, which features floor-to-ceiling glazing, extends more than 70 metres in length. A solar shading solution was required to shield glazed openings from direct sunlight, particularly during the afternoon as the sun passes across the site.

Without an effective form of solar control, solar heat gain would increase quickly, causing internal temperatures to soar to uncomfortable levels. While air conditioning can provide some respite, it is inefficient and expensive to run, so more attention is placed on passive cooling techniques to limit solar heat gain in the summer. Solar heat gain occurs in all buildings with glazed openings. Visible and infrared light from the sun enters a building and the heat energy is either absorbed or re-radiated. As light is re-radiated, its wavelength changes and the resulting

heat energy is trapped inside the building. This is known as solar heat gain.

Passive cooling can be achieved by introducing shading structures onto a building's façade, perhaps in the form of a horizontal projection or other forms of Brise Soleil. These are precisely positioned to shield glazed

openings from direct sunlight, while allowing natural daylight to filter through. For the west-facing elevation of the Belfast Harbour Studios office building, Levolux proposed an arrangement of vertical fins to provide the optimum degree of shading during the afternoons. In total, Levolux engineered 32 vertical aerofoil-shaped fins, each measuring 400mm wide by 77mm thick, formed from a single-piece aluminium extrusion. The fins

> are distributed equally into two sections, either side of a main entrance, set at a pitch of 1.5 metres. For optimum shading performance, the fins are fixed at an angle of 90 degrees from the façade and extend 8.5 metres in height, from first floor to roof level.

> All fins are attached at roof level, to the underside of a projecting canopy, thanks to a welded soffit bracket. This secures the vertical fins approximately 3 metres in front of the façade. To maintain the structural integrity of the fins, an 8mm diameter stainless steel cable extends between steel columns at 7.5 metre centres. Special column brackets allow the cables to be tensioned, passing through the middle and the bottom of each fin. The cables, although visually unobtrusive, were required to ensure all fins remain stable in adverse weather conditions.

> For long-lasting good looks, all fins have been given a silk grey, matt powder coated finish. Now fully operational, Belfast Harbour Studios, with its eye-catching vertical aerofoil fins, is supporting a

thriving film industry in Northern Ireland. It has already attracted several major productions, such as 'Krypton', a Superman prequel and HBO's hugely successful 'Game of Thrones'. www.levolux.com

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## Aluprof Reaches For The Stars

A stunning new curtain wall facade has been installed by Aluprof customer, Britplas, at Jodrell Bank Observatory. Backed by an international collaboration of 12 countries, the Square Kilometre Array (SKA) Organisation have set up their new global Headquarters at the world famous location with funding from the Department for Business, Energy & Industrial Strategy, the University of Manchester and Cheshire East Council to oversee the delivery of the SKA.

The SKA, a new network of radio telescopes to be built in Australia and South Africa, will eventually have a collecting area of almost one million square metres working within the 50 MHz to 20 GHz range and will play a major role in answering key questions in modern astrophysics and cosmology.

The curtain wall on the North elevation is structural glazed and forms an attractive sawtooth stepped appearance whilst other elevations are finished in traditional 50mm capping. Aluprof systems used on the project were MB70 doors and windows and SR 50N curtain walling, with Trimo Qbiss cladding. The colour specified was RAL9011 from Interpon. The eye-catching installation was designed by architects Hassell and constructed by Sir Robert McAlpine.

Aluprof UK's head office and extensive distribution centre is located in Altrincham, Cheshire. Aluprof systems are increasingly being specified on a wide range of residential and commercial projects across the UK including Passivhaus projects. Systems are designed, fabricated and installed by selected, specially trained local companies, to ensure each fabricated product meets Aluprof's exacting standards.

Further information is available on the company's website at www.aluprof.eu and specialist advice is available directly from Aluprof's UK offices on 0161 941 4005.



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### Airport Hotel Is Soaring Success

Up, up and away - GEZE UK has helped a stunning new airport hotel prepare for 'take off' with a range of products that have given it a real 'wow factor'. The Novotel London Heathrow Airport T1 T2 and T3 Hotel launched in March this year and has spacious modern interiors with a fluid configuration of public areas that make it suitable for travellers and other hotel customers. Two sets of GEZE Manual Sliding Wall (MSW) systems – consisting of a total of nine glazed panels with two pass doors – were installed, incorporating natural patterns and forms from the air, sky and clouds. They present a showpiece room divider between bar and restaurant areas that allows the floorspace to be opened out or separated for different uses, such as private functions or breakfast service.

The first set of six panels has an overall screen size of 5010mm whilst the second has three panels and an overall screen size of 3294mm demonstrating the bespoke nature of the MSW system both are 2400mm in height. Each panel discretely locks into the next one via a floor locking device, which is completely hidden from view. A recessed roller track is fitted above to further enhance the sleek appearance whilst its SmartGuide system enhances functionality. The hotel's impressive entrance was created by a pair of automatic sliding doors, fitted with pocket screens for extra safety and powered by Slimdrive SL NT operators.

With a height of just 7cm – Slimdrive SL NTs are almost invisible, virtually silent in operation and can move leaf weights of up to 125kg. They are ideal for buildings with high levels of footfall and a continuous flow of people heading in and out of the building. The glazed doors were etched with spheres incorporating a 'welcome' and a Novotel logo. A fretted canopy

was fitted over the exterior of the entrance. Also fitted were 300 TS 2000 NV BC overhead door closers to bedrooms and public areas. These closers are suitable for doors with up to 1100 mm leaf widths and provide fire and smoke protection. They have an adjustable closing force which means that they can be balanced to reduce noise from guests entering or leaving their rooms.

GEZE UK worked on the project with owner and developer Nine Group, London-based Koncept Interior Design and architectural ironmongers Franchi Plc of Kent, from its early stages of development. GEZE had worked with the developer on a previous installation at Novotel Canary Wharf and it owners were sufficiently impressed to contact the company to work on this new hotel.

Andy Howland, Sales and Marketing Director for GEZE UK: "The full GEZE UK team collaborated closely on the project from sales and distribution to service and finance, they worked together to accommodate the particular requirements of the client, carrying out site visits and advising on issues surrounding our installations. The outcome is a very impressive hotel which really raises the bar within the sector. It is a hotel with many fabulous features that clearly demonstrates that affordable luxury is achievable."

The four-star hotel has 166 contemporary bedrooms all equipped with air conditioning. It includes a gym, library, events rooms, brasserie restaurant and rooftop bar overlooking the airport's runway. www.geze.co.uk

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### Altro Takes A Fresh Look With Bauhaus-Inspired Solutions

Commercial interior surfaces specialist Altro has introduced stunning new high-design ranges to its floors, doors and walls package. Delivering premium aesthetics with outstanding durability, all backed by Altro's sector-leading support and expertise, Altro Ensemble™ modular flooring system and Altro Whiterock™ wall designs wall sheet are ideal for office, retail and hospitality environments.

New Altro Ensemble modular flooring system is the next generation of luxury vinyl tiles. From colour blocking to geometric patterns, with a range of plank and tile sizes and textures, Altro Ensemble gives design freedom to create luxurious floors for commercial interior spaces.

With 57 options to mix and match, the modular flooring system has natural wood and stone designs and bloc colours too. Altro Ensemble is 2.6mm thick with a 0.55mm wear layer, 15dB sound reduction qualities and added comfort underfoot, with minimal residual indentation and excellent durability. A truly exceptional material, it combines these features with unique flexibility and is lightweight, making it easy to transport, cut and handle for installation.

In developing the new Altro Ensemble collection, the design team has taken inspiration from the Bauhaus design school's philosophy of bridging the gap between form and function to engineer products that meet the customers' biggest challenges, such as the need for cleanability, sustainability and flexibility.

The result is a premium modular flooring system that offers variety and design freedom to create sophisticated, contemporary and striking designs. It also has the benefits of local sustainably sourced raw materials made to Altro's exacting manufacturing standards, which ensure high quality, excellent durability and highperformance characteristics.

Altro Ensemble is the perfect partner to Altro Whiterock wall designs – a new vision in wall decoration with natural wood, stone and linen options plus stunning metallic designs to give elegance to interior walls.

Renowned for high quality solutions backed by market-leading customer service and technical support, Altro has been at the forefront of innovation for almost 100 years. As a familyfounded business, Altro has a strong sense of its values and a way of thinking that puts people's needs at the heart of its work. It's a humancentred approach to designing for the demands of 21st century life.

The new ranges are the natural progression of tried and tested products, each harnessing decades of research and expertise in the UK and in Germany, with extensive customer feedback integrated into the development process.

Although new to the UK, Altro Ensemble modular flooring system is the latest generation of a product which has been designed and manufactured in Germany, where it has enjoyed success for many years and is an excellent example of German engineering at its best. A tried and tested product, it has undergone an extensive redesign process which has benefited from the combination of existing technology and new expertise from several sources including the team in Germany, as well as the contribution of award-winning colour consultant Knut Völzke.

Altro Whiterock wall designs are the latest development from Altro's UK design and development team, building upon decades of experience in wall sheets. The new range makes a show-stopping design statement and is perfect for general circulation areas, receptions and foyers, as well as wet environments such as bathrooms and spas, creating a design focal point. Matching sealants and co-ordinating and contrasting trims are available.

Discover Altro's full building solution at www.altro.co.uk

## CCL Wetroom's Linear Screed Drain With 55mm Lo-Seal Trap

The demand for effective shallow drainage systems in today's modern residential builds has never been greater. Designed to be installed in the shallowest of floor depths, the BBA approved Linear Screed Drain from CCL Wetrooms with 55mm Lo-Seal Trap technology can deliver on both. The unique waterless trap allows the drain to be easily installed in any situation. The drain body is mechanically fixed to the slab, whilst the in-built height adjustment allows the outlet to be set



at the desired height to allow a sufficient gradient within the waste pipe, usually 15mm per metre. Designed as the central element of the Linear Screed Drain, the unique Lo-Seal waterless trap at a cuttingedge depth of only 55mm, has been developed specifically for use in wetroom construction projects with screed depths of below 70mm. Made from tough Acrylonitrile Butadiene Styrene (ABS), the trap contains a self-sealing mechanism, which locks into position, keeping the trap sealed when not in use. www.ccl-wetrooms.co.uk/me-services

#### NBT Helps RAF Museum Project To Take Off

Insulation solution specialist, NBT, has helped to bring one of the UK's oldest aviation sites to new use, and preserve the heritage of the former RAF Hendon Airfield for the RAF Museum. The RAF Museum is celebrating and commemorating the Royal Airforce's Centenary this

year by transforming the visitor experience at its north west London site. Nex was responsible for designing the scheme and faced the challenge of refurbishing the stores and supplies building into Claude's Restaurant. The pre-World War II building is of brick construction and the

architect was unable to



ascertain the integrity of the wall without careful consideration to the specification of the internal wall insulation.

Explains Rowan Morrice from Nex: "We worked with NBT to develop a specification for Pavadentro." Pavadentro is an internal woodfibre insulation. A specification was developed which included a lime dubing out coat pavadentro behind Pavaflex, between studs, and a conventional plasterboard. It provides active moisture control thanks to absorption and redistribution of moisture within the woodfibre board and integrated mineral layer. www.natural-building.co.uk

#### The Sound Choice For Design

London's new Design Museum has opened. It has been created within the shell of the original 1960s Grade 2 listed Commonwealth Institute, well known for its distinctive copper covered, hyperbolic parabolic roof. With the emphasis on the display and teaching of design, the priority for designer John Pawson and Dutch architects OMA was equally about the building's new reconfigured interiors and the design and performance of the products used.

For example, the Museum's galleries are arranged around an oak and marble lined atrium with floors covered in pale grey terrazzo while Troldtekt acoustic panels tie spaces together with a visually attractive textured surface.

Consequently, 4000 sqm of Troldtekt fine texture panels in white and grey have been installed in all areas where a peaceful and studious atmosphere was required, such as the library, study and lecture rooms and over the very large space housing the restaurant, bar and break out areas.

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Here, the high performance panels absorb the sounds of noisy dining and chatter together with the echoes and reverberation caused by the hard surfaces and large glazed areas. Furnished with blue stained ash tables and chairs, the restaurant offers views of Holland Park and into the central atrium with the dramatic exposed roof structure above.

Troldtekt natural wood wool acoustic panels are available in various sizes and in four grades from extreme fine to coarse, they can be left untreated or painted in virtually any RAL colour. In an inexpensive and eco-friendly way, occupiers benefit from a host of physical benefits such as high sound absorption, durability and natural breathability coupled with sustainability as documented by Cradle to Cradle certification at silver level. www.troldtekt.co.uk

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# Yeoman Shield Twin Handrail Chosen For New Care Unit At William Harvey Hospital

Yeoman Shield were assigned by main contractors Bauvill Construction to install a wall and door protection system as part of the scheme to create a new Cardiac Critical Care Unit (CCU) and Cardiology ward along with an access corridor at William Harvey Hospital in Kent.

The access corridor was fitted with Yeoman Shield's Guardian Twin Handrail in a stunning colour combination of burgundy and mid grey with matching accessories and attractive stainless steel connective brackets helping to add a unique touch to the décor of the area. Chosen for its dual functionality the Guardian Twin handrail incorporates an ergonomic upper handrail as support for people who require assistance and a lower robust protection rail, which sitting slightly forward guards both the handrail and the walls from marking and damage caused by the passage of wheeled equipment.

The same Guardian Twin Handrail system was also deployed in the CCU this time with a red lower rail, a striking contrast to the mid grey handrail. Matching red Corner Protection Angles, both 90° and 135°, were installed to vulnerable corners protecting from impact damage.

Fire doors in the unit also benefitted from the installation of Yeoman Shield's fire rated door protection products, shielding the door from impact damage that can be detrimental to the functioning of a fire door. Fire rated door edge protectors to both meeting and hinged edges as well as door protection panels were added to the door without affecting the integrity of the original fire door. Yeoman Shield were able to assist with exacting time scales on the project by a quick turnaround of product and service with a site survey, manufacture and installation of the product being completed in 2 weeks.

Paula Stone, Head of Operational Facilities Management at East Kent University Foundation Trust commented "The lower wall protection element of Yeoman Shield's Guardian Handrail now fitted in our high traffic areas will reduce the cost of repairs and maintenance overtime. The upper handrail of the system will help less abled patients get around hospitals giving them something to grab on to if needs be, helping to prevent falls. The design of the rail has the added benefit of being easy to clean which adheres to our infection control policies."

For more information on Yeoman Shield wall & door protection products please go to www.yeomanshield.com or call 0113 279 5854.

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#### Supporting The Grenfell Community

As part of the ongoing support to the Grenfell community, Abet Laminati and Formwise are proud to have helped realise the ambitious DIY SOS Grenfell project to build the replacement Dale Youth Boxing Club and new Community Centre.

Abet donated 12mm compact grade high pressure laminate in a grey Zebrano finish for the washrooms and cubicles, as well

as a graphite grey for the lockers. These were supplied to Formwise Washrooms, the specialist manufacturer, supplier and installer of quality cubicles, panels, lockers, changing room furniture and panelling. With only a rough brief and



a tight timescale, Formwise managed to design, fabricate and install two complete changing rooms including toilets and

shower cubicles in the boxing club as well as washroom facilities in the community centre. When asked about this ambitious project, Formwise Technical Director Tim Jupp commented, "We were delighted to be approached by Abet to support this worthwhile project and "see how if could help". Only having a narrow window in which to come up with a design from scratch and then manufacture and install could have proved challenging. However, as we employ the whole team in-house from start to finish it meant we were able to pull together to achieve this goal. Working closely with Abet and their high-quality laminates, coupled with our in-depth knowledge, has created something special of which we can all be very proud." Samples and technical literature are available from Abet Ltd's sample line on tel: 020 7473 6915 or visit uk.abetlaminati.com while Formwise can be found on 01933 405961 or at www.formwise-washrooms.co.uk

#### Pendock Warms To Ice Rink Challenge

Working directly for main contractor, Morgan Sindall as its sub contractor, Pendock has installed 24 Ultima Plus Radiator Guards along with of laminated MX and CH pipe boxing at Slough Borough Council's newly refurbished Ice Arena.

As well as an ice rink, the remodeled centre also contains a wellequipped gym, a brand-new climbing wall and a dedicated Clip 'n' Climb wall as well as a café to relax in. Meanwhile spectators are also well provided for with new seating and lighting, protected by fully glazed barriers to keep out the cold.

Pendock's involvement in the 44 week, £10 million programme was to supply and fit the radiator guards and the associated pipe boxing in the toilets and changing rooms.

Pendock's Ultima Plus Guards have been designed to provide the highest levels of radiator guard safety and protection. The 'bullnose' corners afford protection against accidental falls or even self-harm, they also safeguard against scalding due to their excellent low surface temperature characteristics.

The two-sided MX pipe boxing – also finished in a white laminate – can be used for low level or high level, vertical or horizontal



runs and at corner locations to cover and protect larger pipework and heating services, as well as soil, vent and rainwater pipes. In this instance, MX and CH boxing was specified, which also features rounded edges to protect against injury and ensure ease of cleaning. Available in sizes from 75 x 150mm up to 300 x 300mm – as well as bespoke options - the boxing is de-mountable for ease of access, while inspection panels can also be fitted. Manufactured from wood, uPVC or metal, accessories such as butt joints, internal and external corners, plus stop ends ensure a neat and tidy finish. www.pendock.co.uk

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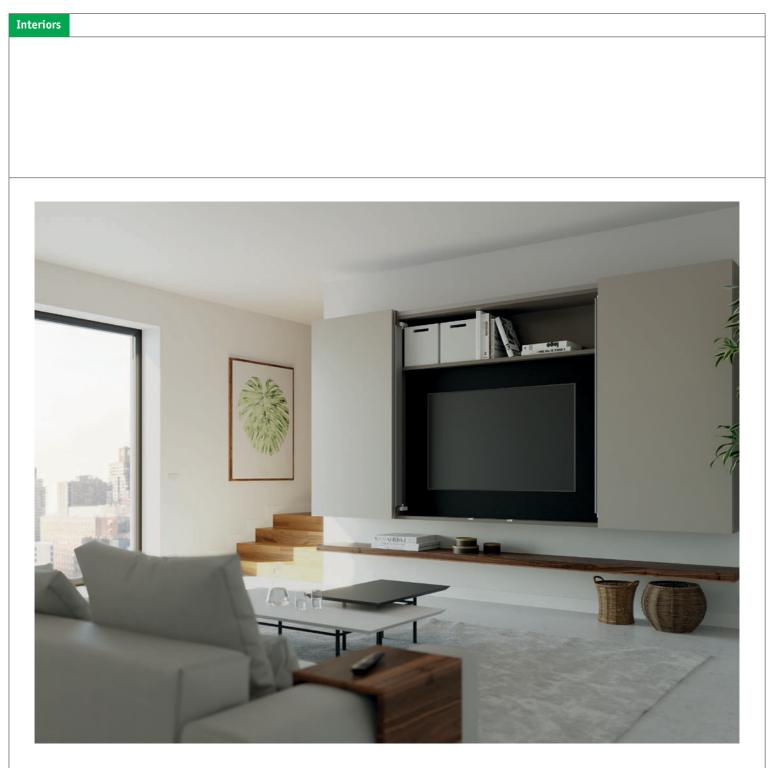
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### Salice Are Set For SICAM Success

SALICE are looking forward to showcasing their extensive product range at SICAM 2018, the International Exhibition of Components, Semi-finished Products and Accessories for the Furniture Industry, held in Pordenone, Italy between 16th-19th October 2018.

With many new products launched within the last twelve months, visitors to the Salice stand will have much to admire including their stylish Slider M35 Top coplanar sliding system which is suitable for medium sized cabinets, with doors width up to 1500mm and a maximum weight of 35kg per door.

Also on display will be their Mover and Mover Flat vertical sliding system for wall cabinet doors. Mover is particularly suitable in restricted spaces as an alternative to conventionallyopening doors, notably in bathrooms and galley kitchens, whilst Mover Flat creates concealable spaces on kitchen cabinets, and anywhere you want the convenience of a space that can be elegantly hidden behind a sliding panel.

Also at the Show will be their Silentia+ hinge, which remains consistent with the aesthetics of the first generation of Silentia, whilst incorporating new technological innovations that places this hinge at the forefront of decelerated closing systems.

If its innovative storage solutions that you require, then take a look at their revolutionary

new PIN display storage system, which offers creative storage of knives, bottles and shelves in the modern kitchen, along with Salice's Split which offers personalised drawer interior organisation, and their new Waste bin system, which provides an aesthetic and effective solution to the efficient handling of kitchen waste.

For further information on the SALICE product range please visit them at Hall: 7 - Stands A2/ B3, A4. Call 01480 413831 or visit SALICE online at www.saliceuk.co.uk



#### Surfacing News From David Clouting

The success of Interior Film from surface material providers, David Clouting now extends from shop fitting to specialist interior contractors and designers ...and its popularity and range of applications continues to grow. Interior Film manufactured by LG Hausys, is an innovative self-adhesive, decorative film, quick and

easy to install. It's so versatile it can be applied to almost any interior surface. This enables feature walls, office doors, furniture, skirting and architrave to be attractively and quickly refurbished at a fraction of the cost it would take to replace them.



Offering excellent flexibility and adhesion, Interior Film provides the perfect finish, even to curved or complex shapes. Easy to clean and maintain Interior Film is hardwearing and remains stable if exposed to heat, humidity or low temperatures. Air free technology enables Interior Film to be easily applied to give a superb bubble free surface. Available in a range of over 400 designs and finishes, Interior Film is CE and IMO Certified so can be specified with confidence across a wide range of applications. www.davidclouting.co.uk



### Marble From Compac –Combining Colours And Textures That Convey Sensations.....Naturally

COMPAC's technological marble is an engineered stone composite which has the look and feel of real marble but offers so much more. Containing a high percentage of natural marble mixed with resins, COMPAC's technological marble has the beauty and hardness of marble but its resistance to impact and breakage is much greater owing to its enhanced flexibility. It has a wonderful consistent, uniform appearance and can be fitted to large surfaces without breaks or differences in colour tone being noticeable.

Its porosity is practically zero therefore absorption of water and other liquids is minimal- offering a hygienic product that is both easy to clean and maintain. It is a versatile too with a wide range of colours, textures and sizes available. It can be used on kitchen and bathroom floors, walls, vanity tops, building façades, staircases, fireplaces and on high footfall surfaces such as hotels, airports, rail stations, shopping malls, public buildings, etc. www.compac.es



### Extensive Room Flexibility At Leading University

Designed throughout for adaptability, space at the new Emily Wilding Davison building, Royal Holloway University, benefits from the installation of numerous moveable wall systems. Partitioning experts Style, worked closely with contractor, Geoffrey Osbourne, and Associated Architects to assist and advise on the design, bringing practical, aesthetic and cost-saving benefits to the project. Demonstrating the full breadth of Style's portfolio, the final arrangement involved a 50 dB Rw DORMA glass wall in the events seminar room, a DORMA Variflex system in the events space, on which art can be displayed, a 56dB Rw acoustic DORMA moveable wall in the PC training rooms, a 46dB Rw folding wall in a clinic room, and a 56dB Rw DORMA moveable wall in the meeting rooms. The demand for flexible space on this state-of-the-art project was extensive, whilst the specification was also far from the norm. In one room, for example, the University

wished to include hanging rails on the partitioning panels, allowing artwork to be displayed. There was also a need for additional acoustic protection and visual privacy in the reception area, as and when required. As a result, Style was brought into the process early, ensuring a solution for hanging art on the panels could be successfully implanted. Style also recommended that the panels in one room would better match the adjacent outside glass frontage if their height was increased. This not only created a visual improvement, but also saved money as the extra height allowed the moveable wall to be directly fixed to the concrete slab above, removing the need for expensive structural support and a large bulkhead.

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### An Introduction To Hauraton Drainfix Clean

In recent years a lot has been talked about flood prevention, planning for bigger and bigger storm events and the need to deal with surface water. There is also a growing acceptance that SUDS is not, as often labelled, just a green fad, about building a pond or putting a green roof on a garage. It's also not just an easy way to blow a hole in the construction budget. A well-designed, robust SUDS scheme will be resilient, prevent and deal with flood water, create a better living space for us all, offers biodiversity to allow Mother Nature to flourish, can be affordable, and offer low ongoing maintenance costs.

Hauraton DRAINFIX CLEAN has been developed as a proprietary drainage channel with the unique ability to collect, store, clean and then

discharge surface water. During the cleaning process the product has been



extensively tested and will remove of 99.5% TSS (total suspended solids) 99.9% TPH (total petrol hydrocarbons) 99.8% Zinc and 99.8% Copper. It is widely accepted that the SUDS Manual produced by CIRIA is the go to guide for designing of SUDS, Hauraton DRAINFIX CLEAN is included in this guide under chapter 14 which deals with Proprietary Systems. Over several years trial sites were set



up in Germany with DRAINFIX Clean, regular sampling and extensive testing has led to the product being awarded a converted Dibt certificate. Within the UK no official testing or protocol exists. Maintenance requirements are minimised, given time a layer or cake will build up over the filter substrate, this offers several benefits by way of biological filtration. It is estimated that on a well-designed system,

maintenance will only be required every 10 years. Recent UK installations have included retail car park's to ensure surface water is cleansed prior to discharge into the sewer network. Further installations have taken place for a national agency where there is a requirement to remove heavy metals and hydrocarbons from surface water prior to discharge.

Hauraton DRAINFIX CLEAN offers the unique ability to be able to be able to collect and clean surface water, has low ongoing maintenance costs and has been through onerous testing. It is included in the SUDS manual. It offers designers and contractors alike another option to help in developing a resilient, robust and assured SUDS scheme.

For more information on DRAINFIX CLEAN product specifications go to www.hauraton.co.uk under the AQUA section



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#### Give Your Garden The Edge On Sustainability

become is taking the sustainability message to the great outdoors by launching a garden edging that is made from 100% recycled household plastic. Eco Edge is the latest addition to the become portfolio to meet soaring demand for all-things sustainable from consumers, businesses and public-sector organisations. Driven in part by the phenomenal impact of publicity from the likes of Blue Planet, Eco Edge is on trend, lending itself to promotional messages that will strike an immediate chord with ever-more eco-aware customers. Eco Edge is stylish, strong and as easy to work with as wood, making it an ideal edging for virtually all types of gardens and landscaped public space. Unlike wood, however, it is rot-proof, and environment friendly, making it supremely cost-effective, flexible and long lasting. It suits the

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widest possible range of users and uses. They can also use Eco Edge to promote corporate social responsibility pledges on sustainability: Eco Edge delivers on all three golden goals of sustainability: 'Reduce, Reuse, Recycle'.

Also, it delivers on almost every type of edging in the garden or public space, from lawn, borders, and paths to play areas or pond edges. The products made from 100% recycled household plastic include Straight Eco Edge and Rolled Eco Edge. Straight Eco Edge is the perfect alternative to hardwood and is available in long, straight pieces for linear borders.

Rolled Eco Edge comes on a roll for bends and slopes. The natural look of both makes them ideal for gardens and public spaces or more naturalistic landscapes. Eco Edge is available in dark grey and brown and is made from polyolefin, manufactured from recycled household plastic waste. Eco Edge is available in 10, 18 and 25 metre lengths, and all are 14cm deep and 0.7cm wide and can be worked in much the same way as wood - which means they can be easily sawn and screwed into, but they need no varnish, staining or preservative.



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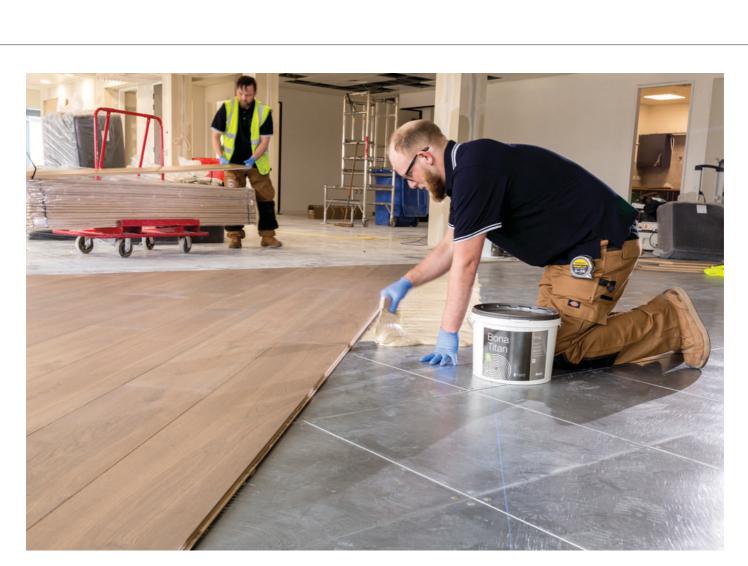


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### Bona Titan – A New Generation Of Powerful Adhesives

Bona, the wood floor experts, has launched Bona Titan, a new supreme performance, silane- based adhesive for high value projects, very wide or oversized solid wood boards or any installation where the quality of the bond has to be guaranteed.

Floors

Bona Titan contains Titanium Technology - a revolutionary new formula comprising quadruple crosslinking that delivers superior durability and an unbeatable initial bond speed - even under challenging subfloor conditions.

Bona Titan can be specified with confidence to bond all types of wood flooring. Its superb shear strength makes installation easy and keeps even the largest, solid boards securely in place. If the subfloor is sound and dry, no primer is required. The hard, silane-based formula contains no ingredients that can migrate after curing, which eliminates all risk of discolouration at the joints. The smooth, thick consistency makes it easy to use and produces stable ribs, an extremely high initial grab and zero risk of hollow spots. The bond strength of Bona Titan will not diminish over time so the stability of the floor is guaranteed for the long term.

Bona Titan meets ISO 17178 standards and, in line with Bona's environmental strategy, is a safe, clean formulation which also carries EC1-R Plus, DIBt, Greenguard and A+ low emission certifications.

Bona Titan is compatible with underfloor heating and can be used directly on metal or tiles. Floors bonded with Bona Titan can be sanded after just 12 hours. www.bona.com

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### The Macallan's Pioneering New Distillery Installs Flowcrete UK Flooring

The new distillery for luxury whisky brand The Macallan has installed a variety of Flowcrete UK floors to create surfaces that would reflect its visual identity and maintain the functional properties required to produce this iconic Scottish spirit. The development consists of five cells that seamlessly blend into the surrounding countryside as undulating, green-roofed earthworks. Four of these would house the brand's production operations (three still houses and a mash house) and one would be the visitor centre.

The flooring in the production cells will likely face spillages of hot, corrosive by-products alongside point loading from heavy equipment, frequent foot traffic, intensive cleaning, impacts and more. To ensure that the surface would maintain a functional, visually attractive finish, 5,570 m<sup>2</sup> of the polyurethane system Flowfresh HF LT was

applied. A sleek grey colour was chosen to match the production area's industrial aesthetic. Visitors to The Macallan's whisky tour would not just experience Flowcrete UK flooring in the production areas, as its screeds and decorative finishes were also applied across many other parts of the site's visitor centre and distillery tour. Before the resin finishes could be applied, 3,669 m<sup>2</sup> of Isocrete K-Screed and 4,890 m<sup>2</sup> of Flowscreed Industrial Top were used to create robust screed layers that would provide level and reliable platforms for the decorative coatings. The main internal tourist routes and viewing gallery were then coated with the fast curing, methyl methacrylate (MMA) resin floor topping Flowfast Quartz Structure. Areas that are usually just functional spaces have been reimagined into visually stunning works of art in The Macallan's new facility.

This is especially true of the barrel room (or cave privee), where the sherry cask maturation of the distilled spirit takes place. This has been turned into a private cellar that displays each cask like a gallery exhibition, putting the visitor in the centre of a semi-circle of back-lit barrels. 303 m<sup>2</sup> of the self-smoothing epoxy system Peran SL in a glossy black finish was applied to create a sleek floor that would reflect the cellar's lights and the outlines of the barrels above in a dynamic, eye-catching manner. www.flowcrete.co.uk

### Howe Green Creates "Specials" For Centre Of Collaboration And Creativity

Howe Green, one of the leading brands in the specialist horizontal access market, has supplied products to the £150 million National Automotive Innovation Centre (NAIC) being built on the University of Warwick campus.

The distinctive 33,000m<sup>2</sup> building, with state of the art equipment and world class facilities, will provide a centre for research, innovation and technology development in the UK automotive sector. Academics, engineers and designers will be brought together under one roof to create the technologies and products of the future.

Howe Green supplied around 400 floor access covers for use throughout the centre to provide safe and easy access to building services concealed under the raised flooring.

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The Howe Green bespoke 7500 Series Medium Duty Stainless Steel covers were specified by award-winning architects Cullinan Studio. The specification required that the covers were manufactured with a reduced depth, instead of the standard overall frame depth of 75mm. The reduction in depth enabled the access covers to be infilled with the same flooring used elsewhere in the raised floor system - calcium sulphate floor panels, with the stone pre-bonded. The floor access covers were installed by Lindner, the market leader in raised flooring systems. Calcium sulphate floor

panels are ideal for sustainability as they are manufactured almost exclusively from recycled materials – an important consideration for the NAIC which is aspiring to a BREEM excellent rating.

If you would like to find out how Howe Green can provide safe access to concealed services for your next construction project please get in touch, call 01920 463 230 or visit www.bilcouk.co.uk.

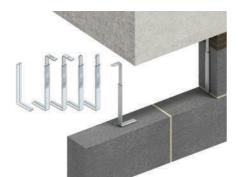


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Walls

### Ancon Launches Improved IHR Head Restraint To Accommodate 75Mm Gaps

ANCON has re-engineered its IHR internal head restraint to accommodate gaps at the wall head of up to 75mm. Head Restraints provide a simple support at the top of masonry panels. They



are typically installed in the inner leaf of blockwork on a framed structure, where the masonry is non-loadbearing.

Ancon IHR's comprise an L-shaped channel section, fitted in the bed joint and perpendicular joint of the top masonry course, and a second sliding component, fixed to the underside of the structural frame. The sliding top section is available in two lengths; one length to suit 25-50mm gaps and a longer length for 51-75mm gaps, ideal where a fire or acoustic barrier is being installed or greater deflections are expected in the primary structure. Information is available in the Ancon Wall Ties and Restraint Fixings technical literature available to download from www.ancon.co.uk/IHR. www.ancon.co.uk

#### Kingspan Launches New Facades Business



Kingspan Group, the global leader in high performance insulation and building envelope solutions, has announced the launch of Kingspan Facades – a new business designed to help architects enhance their designs without

compromising on technical performance. Combining systems and expertise from across the Group, Kingspan Facades is a serviceled business providing specifiers with a comprehensive portfolio of advanced building envelope systems suitable for a multitude of applications and architectural styles.

This aesthetic offering is supported with four robust substructure solutions that encompass Kingspan's advanced core insulations alongside options using more traditional materials. Kingspan Facades will be underpinned by an industry-leading Compliance Assured scheme. Compliance Assured by Kingspan is a robust assurance framework to support customers through design, installation training and on-site inspection during construction and handover of a BR 135 / BS 8414 tested Kingspan Facade system. www.kingspanfacades.co.uk

#### Magply Boards Front Sip Solution For Student Accommodation On The South Coast

A high rise development in Bournemouth for Fresh Student Living is making full use of the technical benefits to an innovative BBA approved structural walling system, which features 9mm Magply boards for both the inner and outer faces to the insulated panels' design.

Oxford Point is close to both the city centre and Bournemouth University's Talbot Campus, with its 16 storey structure containing studio apartments as well as ensuite study bedrooms in 'cluster flats'.

It has been built by main contractor, the Watkins Jones Group, with MIB Façades being the specialist sub-contractor erecting its own SIPs system. While many such composite walling solutions use OSB or particleboards to sandwich a foam insulation core, the MIB MetSIP is much more robustly engineered, with 75 mm deep cold-formed steel Sigma studs – plus a 45mm treated timber packer - at 600mm centres. 9mm thick Magply modified MgO boards form the inner and outer skins to the 136mm thick panels, whose excellent U-value is provided by a CO2 blown polyurethane insulation.

Aside from its speed of erection, two of the reasons that the MIB MetSIP system wins specifications for applications, such as the 16 storey Oxford Point tower, is the outstanding weather performance and fire resistance offered by the Magply sheathing.

Magply is largely unaffected by prolonged exposure to rain, while under independent testing, the material was shown to achieve 90 minutes fire resistance with minimal smoke generation. This means during the critical erection phase, before fire-stopping breaks and other permanent protection can be installed, the structure is far less vulnerable to arson or an accidental blaze. www.intpetro.com www.blackmountaininsulation.com www.magply.co.uk



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## New Isoweld<sup>®</sup> 3000 Machine Now Works 50% Faster!

SFS has launched a new, improved version of the well established isoweld® 3000 induction welding machine which enables the welding of adhesive coated isoweld® stress plates to single ply membrane waterproofing in less than half the time of the original version. New software facilitates fast welding in typically just three seconds per fastener, thereby offering a very significant improvement in productivity to the installer.

Since its launch in 2013, the isoweld® system has been successfully used to install more than 8 million square metres of single ply membrane roofs. The system has proved itself as a secure, economic fastening solution which can save up to 20% on the total installed cost.

Martyn Holloway, Flat Roofing Business Development Manager at SFS, said: "As clients strive for ever higher quality in their building envelope design and construction, isoweld® represents an ideal fastening solution for the installation of single ply membranes. It enables installers to deliver a safe and secure installation, suitable for new build and refurbishment applications. The faster welding speed will be welcomed by installers and will serve to further enhance the benefits of this cost effective solution."

Using the innovative non-penetrating isoweld<sup>®</sup> field fastening system enables the installer to use the widest membranes available and thereby significantly reduce the amount of seam welding required. Because fixing is not in-seam, less overlap is required to offer increased membrane coverage.

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Typically, up to 50% fewer fasteners and 20% less membrane welding are required using the isoweld® system, which will vary with project exposure. For metal deck applications, the direction of the

membrane installation may be either at right angles or parallel to the crown direction, which can offer more efficient installation. For exposed locations, the isoweld® system offers further benefits by reducing the number of fasteners required and linear metres of seam welding, whilst evenly distributing the wind load over the membrane surface. Ease of use by installers was an integral aspect of the isoweld<sup>®</sup> 3000 design. The set up calibration is fast and straight forward and once completed the machine automatically makes its own adjustments according to the site ambient temperature, as well as compensating for current variations, so manual calibration is not required. This means that an optimum performance fixing can be achieved, virtually independently of the operator or working environment.

Due to the inbuilt multiple safety features of the isoweld<sup>®</sup> 3000 machine, SFS is able to offer a unique weld warranty to providing total assurance to the installing company, main contractor and client.

For a comprehensive demonstration of the new, faster isoweld<sup>®</sup> 3000 machine at your own premises or in the new SFS training academy at Leeds please contact Martyn Holloway at martyn.holloway@sfs.biz. More information about isoweld is available at www.sfsintec.co.uk.

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### Regal Rainwater Systems For Queen Anne Style Refurbishment

Yeoman Rainguard rainwater systems have played a part in the refurbishment of one of Potton's show homes, The Milchester.

After many years of service, it was time for The Milchester to under-go a refurbishment, both inside and out to modernise facilities.

A new rainwater system in the form of Yeoman Rainguard's XL Aluminium 125 x 100 MOG profile gutters along with 75 x 75mm square downpipes finished in a durable and stylish black textured powder coating was installed.

For more information on Yeoman Rainguard rainwater systems go to www.rainguard.co.uk or call 0113 279 5854.



Roofs

### Marvellous Marvault Brings Daylight To New School

At the President Kennedy Academy in Coventry, an impressive 85m<sup>2</sup> application of Marvault, a continuous vault rooflight system from Brett Martin Daylight Systems, has helped to deliver exceptional levels of diffused daylight into communal areas of the school. The Marvault system provided the optimum combination of high light transmission and UV protection, whilst having a positive impact on student's wellbeing. Glazed in triple skin opal polycarbonate and featuring trickle vents in the kerb, the eight vaults were installed by Advanced Roofing & Cladding. Offering ease of installation, the rooflight system laps together to form rooflights runs, which at the academy enabled runs of more than 21 metres in length and spanning 1.5 metres. The economic, simple-to-fit, barrel vault system complemented the new facility's high quality external aesthetic whilst helping reduce energy demands. www.brettmartin.com

### Roofshield Preserves The Character Of Historic Scottish Steading

A historic farmstead conversion in Westmarch, Dundee is set to benefit from the added protection of Roofshield, which has long been recognised as one of the highest performing roofing membrane solutions, providing a pitched roof underlay, which is both air and vapour permeable.

In 2017 the buildings were purchased by Jason Stewart of Circinn Developments Dundee with plans to convert the site into two buildings consisting of a 2-bed and 3-bed unit.

Jason comments: "it was important to maintain a strong traditional character to the buildings, preserving the stone finish exterior and slate roof.



As part of the roof construction, we insisted on the Roofshield membrane from the A. Proctor Group to ensure the highest level of protection.We have used Roofshield on a number of projects and it is excellent in terms of its weather tightness, where some cheaper alternatives can tend to sag in the gaps between sarking boards, causing water to collect and create the risk of leaks. It's also extremely robust so you don't have to worry about tearing or damaging on site." www.proctorgroup.com

### Bauder Achieves Prominent Investors In People Platinum Accreditation



Bauder has become the first to achieve the Investors in People ('IIP') Platinum standard, the most sought after status in the National scheme, within the Construction of Buildings category. The Platinum accreditation is the highest accolade that can be achieved and is currently held by only 1% of IIP accredited organisations. There are currently just 78 organisations accredited Nationally and only 23 of these are located in the South of England (figures at September 2018).

The accolade clearly demonstrates Bauder's commitment to its strong Culture and inherent staff wellbeing, personal development and embedded leadership practices. Family-owned company Bauder, supply flat

roof and green roof systems within the construction industry, with a workforce of over 160 employees located throughout the UK and Ireland. www.bauder.co.uk





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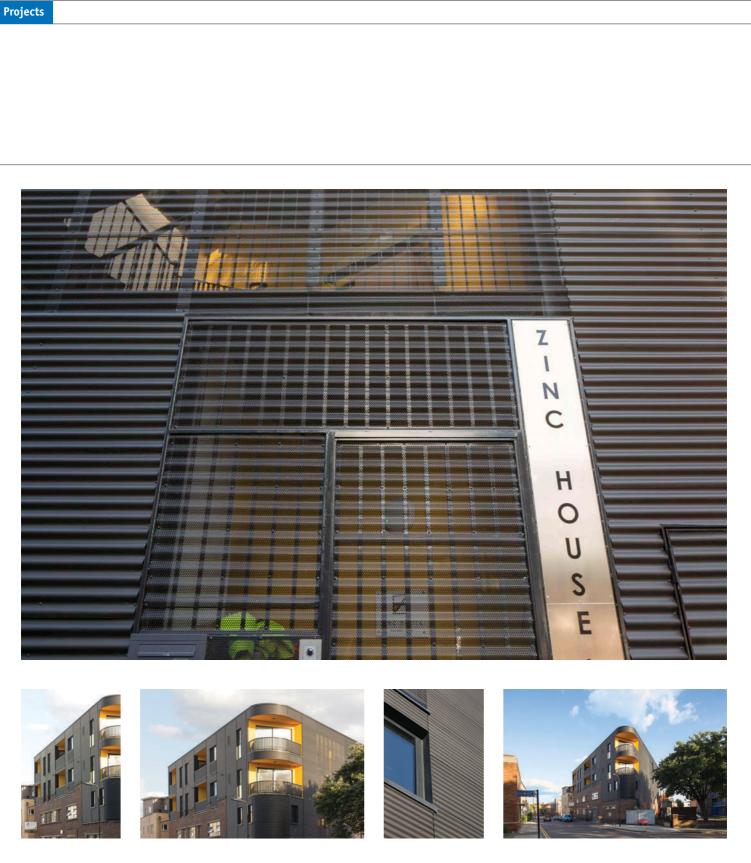


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## VMZINC Corrugated Façade For Hackney Apartments

GPAD London's design of eight apartments over a doctor's surgery in Elsdale Street Hackney features VMZINC curved and perforated Sine Wave cladding in dark ANTHRA-ZINC<sup>®</sup>. The art deco building extension has been named 'Zinc House' and is the first project to feature a curved element using zinc in such a profile. Sitting at the convergence of two streets, the use of yellow inset balconies gives added visual distinctiveness to the project. An expanding mesh element of the façade also allows natural light to flood into the stairwell. The Sine Wave zinc has a corrugated profile and can be fixed either vertically or horizontally on a wooden or metal framework. In addition to ANTHRA-ZINC, it is available in QUARTZ-ZINC<sup>®</sup>, five standard and bespoke PIGMENTO<sup>®</sup> colours and AZENGAR, the first engraved zinc to be used in construction. www.vmzinc.co.uk



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## Old Pump House Retains Industrial Heritage With The Help Of Yeoman Rainguard

Yeoman Rainguard rainwater systems were used to help reintroduce an industrial heritage style to The Old Pump House in Warton.



Originally erected in 1923 as a water pumping station for Atherstone and surrounding villages and decommissioned in the late 1980s, the pump house was then bought in the early 90s and after a scheme for a hotel development fell through was converted into a home. The property was then sold in 2015 to current owners Ian and Karen Callender.

"Though the pump house had under gone a complete transformation into a residential property the previous owners, whilst carrying out the renovation to their own preferences, in our opinion designed out some of the industrial heritage. When we purchased the

property, it was our intention to restore some of these features." Ian explained.

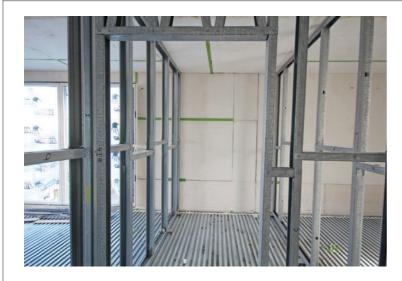
Wanting to replace the white plastic gutters and downpipes at the front of the house with a rainwater system that would reflect such qualities, various avenues were searched. The result of which was Yeoman Rainguard whose XL Aluminium range ticked all the boxes when it came to style, ease of installation and durability whilst also being cost effective.

Yeoman Rainguard 130 x 100mm deep flow half round XL Aluminium gutters were installed giving real impact to the house frontage.100mm dia. downpipes were added below Cast Aluminium Motif Hoppers helping to further emphasise the desired effect.

Finished in a durable yet stylish black polyester powder coating the aluminium rainwater system will provide the house with 30 + years of maintenance free service.

For more information on Rainguard Rainwater Systems suitable for heritage and listed buildings go to www.rainguard.co.uk or call 0113 279 5854.

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#### Dublin Apartments Use Offsite System Featuring Magply Performance

The full range of performance benefits to Magply boards have been utilised in the specification of an advanced offsite system being employed in the construction of a new apartment building standing alongside a famous central Dublin landmark on Amiens street.

Linham Construction is the main contractor and developer for the Five Lamps project, which is creating ten single bedroom apartments plus a two-bedroom, duplex property. The structure has been designed to achieve an A1 Building Energy Rating under Part L of the Building Regulations. Edge structural engineers provided structural engineering for the LGS frame. 9mm Magply boards are being used to walls and 12mm to ceilings of construction for their strength, fire performance and overall durability as well as their excellent weather resistance during the build period. The five storey building is being clad across different elevations with either the Permarock exterior wall insulation system or the Dutch manufactured Brickworld

brick slip system. Both are on Rockwool material fixed to an outside layer of 9mm Magply sheathing which also provides an additional 1 hour fire protection to the structure from the outside.

This solution for the envelope will not only achieve a U-value of 0-15  $W/m^2 K$ , but the inherent airtightness of Magply is also helping the project team target an air permeability figure of less than 2.0  $m^3 /m^2$  /hour. As a high performance, multi-functional board, Magply features a Magnesium Oxide formulation with no VOC's to offer a fire-safe and environmentally friendly alternative to conventional plywood or OSB products. Additionally, the unique production process keeps the chloride content to just 0.01%, enhancing both stability, long-term durability as tested by Bunch and avoiding the chloride issues seen with other formulations.

Crucially, Magply carries a full suite of internationally recognised accreditations confirming the boards' ability to deliver up to 90 minutes' fire integrity and insulation under test conditions and including EN 1365# tests carried out by Exova. www.magply.co.uk

### Helifix Dixie Micro-Piles Used To Support Air Chief Marshal Statue

More typically used to support and stabilise buildings, the versatile Helifix Dixie piled foundation system has recently been installed at The Battle of Britain Bunker Museum, RAF Uxbridge, to support a statue of World War II hero, Air Chief Marshal, Sir Keith Park.

Due to the proximity of this new statue to both electrical and drainage services, Dixie micro-piles were selected as a reliable and cost-effective alternative to traditional concrete foundations. These Helifix pipe piles screw into virtually any type of soil, quickly and easily, with minimal disruption, noise or spoil removal and would be easier to extract from the ground in the future, by simply being 'unscrewed'.

Detailed ground investigations showed the area to have a top layer of made ground above clay and sandy gravels, with load bearing strata at around five metres. Four triple flight Dixie micro-piles were torquedriven to the design depth using the hand-held Helifix hydraulic drive head.



Each micro-pile was levelled and topped with an engineered steel plate; these were then cast into a metre thick concrete plinth to which the new statue was affixed. For project-specific technical advice on the use of Dixie micro-piles, for both temporary and permanent foundations of new build structures or remedial support for existing buildings, please contact the Helifix team on 020 8735 5200. Alternatively, go to www.helifix. co.uk/videos to watch a step-by-step installation and download relevant technical brochures.

Helifix operates a nationwide Approved Installer scheme. For details of your local approved contractors, please contact Helifix. www.helifix.co.uk



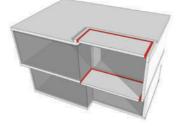
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### Schöck Isokorb For Demanding Luxembourg Passive House

The Grand Duchy of Luxembourg has been promoting thermal insulation and energy efficiency on a timescale way ahead of most European countries. And passive house construction techniques already constitute the minimum standard for domestic new builds. Every new home in Luxembourg since 2017 has to meet the requirements of energy class AA, which corresponds to a building with virtually zero energy consumption.

And one recently completed residential building at Burden, in the north of the country, has gone even further and achieved an AAA Luxembourg Passive House classification. For this to be possible, the primary energy demand must be below 45 kWh/ m<sup>2</sup>a, the heat demand below 22 kWh/m<sup>2</sup>a, and the CO2 emissions below 11 kg CO2/m<sup>2</sup>a.



"In order to achieve these values, we conducted a thermodynamic simulation using the 3D model of the house," explains architect Serge Schmitgen from OBLIK. "We wanted the building envelope to let in plenty of daylight and offer a panoramic view across the countryside. At the same time, we also wanted to distribute solar gains over the course of the day in a way that meant the building could be heated and cooled using as little energy as possible. By using the computer to simulate the temperature development inside the building, we were able to ensure our architectural designs were also optimised in terms of their solar protection".

Minimal thermal bridging was critical - The balcony on the building serves to provide shade, which minimises the need for protection against the sun, but at the same time exploits the maximum amount of daylight. The specification was demanding and eliminating any risk of thermal bridging at the balcony connection was critical. The architect had no hesitation in turning to Schöck and Serge Schmitgen commented: "In the world of thermally isolated building component connections, Isokorb is as much of a household name as Gillette," With the Burden project, two types of Isokorb variants were used on the front and on the sides of the 1.60m x 4.00m concrete balcony. With their pressure bearings made of microfibre-reinforced high-performance fine concrete and an insulating element measuring 120 mm thick, the certified passive house components fitted together seamlessly without expansion joints into the reinforced concrete inner slab layer.

The installation involved first placing the balcony cladding and floor slab into position. Then the load-bearing thermal insulation elements were secured to the steel reinforcements using binding wire. The floor slab and balcony could then be covered with concrete in a single pour, with the balcony being thermally isolated from the building with the help of the Isokorb.

The Schöck range of structural thermal break units allows connections to be made between concrete-to-concrete, concrete-to-steel and steel-tosteel. Product performance is totally verifiable and the range meets full compliance with the relevant UK building regulations, has NHBC approval and offers LABC Registration. There is also the security of independent BBA Certification.

For a free copy of the Schöck Thermal Bridging Guide and / or the Thermal Bridging Solutions brochure contact the company on 01865 290 890 or visit www.schoeck.co.uk. The website also features an extensive range of downloadable software.

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### Yeoman Shield Fire Rated Door Protection Performs At Motorpoint Arena



Keen to provide a safe and comfortable environment for their customers, Motorpoint Arena in Cardiff chose Yeoman Shield fire rated door protection products

to help maintain and protect the condition of important fire doors. Yeoman Shield door edge protectors and push plates were fitted to doors in back of house areas whilst doors to the auditorium entrances which experience a huge amount of pedestrian traffic, had door edge protectors and half height door protection panels installed. Vulnerable glazing beads were replaced with Yeoman Shield PVCu clad beads completing a comprehensive and durable door protection system helping to reduce future fire door maintenance and replacement costs. All Yeoman Shield Fire Rated Door Protection products have been tested to and passed the current requirements for their particular type of products. www.yeomanshield.com

#### Marley Eternit Antislip Decking Creates Striking Community Boardwalk

Marley Eternit Antislip decking has been specified on a pioneering project to build a brand new community in Leicester. The European redwood decking has been used to create a stunning timber boardwalk, providing a scenic pedestrian link and acting as a focal point for

the entrance of the New Lubbesthorpe development. Marley Eternit's Antislip Plus decking, with a smooth profile, was chosen to create the



boardwalk, giving pedestrians the opportunity to walk over, or around the lake, adding a park-like aesthetic to the entrance of the site. The curved boardwalk also features wooden benches, so residents can stop and take in their surroundings.

Over 3,000 metres of the Antislip Plus decking was installed on the New Lubbesthorpe boardwalk. The boards were also treated with MicroPro, a preservative system which incorporates micronized copper co-biocides to improve durability and provide a natural timber look. www.marleyeternit.co.uk/decking

#### Stylish Solutions For Wolverhampton's Mander Centre From Encasement

The extensive refurbishment and upgrading of Wolverhampton's Mander Centre shopping mall has included both Vecta wall lining systems and 'Forma' column casing solutions from Encasement as part of the £35 million project. A key part of the plans was to improve the shopper experience at the Mander centre by creating a double height full length glass atrium, which incorporates both ground floor and gallery shopping areas linked by a footbridge with escalator access.

The comprehensive revamp has also attracted a number of major retailers to the centre with H&M being one of the first to move into the new complex, while Debenhams is one of the latest with its 90,000 sq.ft department store. To help create the high quality finish demanded by the centre's owners, Encasement's Vecta interior wall lining



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system was used to clad the atrium and mall footbridge, as well as the gallery ring beam bulkhead. All of the panels were manufactured and installed by Encasement and are finished in white to integrate with the interior design scheme which

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helps create the bright, open space for retailers and shoppers. In addition to the Vecta system, Encasement also manufactured, supplied and installed 34 Forma bespoke column casings, which use an elliptical contour design and are located around the perimeter of the ground floor and gallery shopping area to conceal structural steelwork.

Each column casings stands 3000mm high, but the profile dimensions vary depending on the size of the structural steelwork that needs to be concealed. All casings are manufactured using Alucobond<sup>®</sup> aluminium composite to provide a durable and tough surface for high traffic areas and is finished in silver grey to integrate with the colour scheme. www.encasement.co.uk

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### Steel Contractor Doubled The Speed Of Construction Thanks To The Girder Clamp By Lindapter

The Zurich Insurance office in Madrid features a steel and glass facade that was developed, fabricated and installed by Bellapart. The striking geometric facade provides office workers with expansive views of the surrounding area and allows natural daylight into all floors of the building.

Engineers specified Lindapter's CE approved Type AF high slip resistant clamps for securing the framework for the panels because of the product's adjustability, high strength capacity and durability. The lateral adjustability of the clamps allowed the contractors to quickly slide the framework into position before tightening the clamps to secure the frame in place. The process was standardised and repeated throughout the project and Bellapart were said to have completed the installation in half the time it would typically take when using conventional connection methods.

In addition to doubling the speed of installation and reducing labour costs, further savings were achieved by avoiding on-site drilling or welding and therefore eliminating the need for specialist labour, equipment and hot work permits, which often cause delays.

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Visit www.lindapter.com to download the latest Lindapter catalogue or call (0)1274 521444.



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### Rockfon Turning Heads And Driving Performance

Designed by AT Architects, the three-storey, 18,500m<sup>2</sup> BMW and Mini dealership can display up to 872 cars. Its impressive facilities are arranged to offer the very best service and convenience in luxurious surroundings. There are customer lounges, which include Europe's first dedicated M lounge which displays all BMW M models, with a barista serving complimentary refreshments in the bar café.

The 42-bay workshop, with drive-in reception, is quick and convenient. The ground floor is home to the complete BMW range, where 7,500m<sup>2</sup> of Rockfon Tropic ceilings were chosen to provide outstanding acoustic control and contribute to the light, open interior design.

#### Superior sound

The new building is designed to create a comfortable and welcoming environment. Our ceiling plays a pivotal role here. The large showroom is fitted with floor to ceiling glazing and tiled floors which could make the open-plan area prone to reverberation. The Class A sound absorption of Rockfon Tropic controls the ambient sound level in this space, reducing echo and improving speech intelligibility.

#### Exceptional light reflectance

It is important for our ceiling to enhance the clean, minimalist interior designed to display BMW cars to best effect. Rockfon Tropic ceilings have a smooth, white surface that offers 86% light reflectance helping create the optimum lighting conditions for the showroom, allowing the cars to shine.

#### Smooth installation

Tudorharp Contractor, Rob O'Dell, has worked on many projects with us, and installed the showroom ceilings. "We worked closely with Rockfon to ensure we produced the finished result the client wanted. We installed a mix of 600





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x 600mm tiles with 1200 x 600mm to avoid cuts and achieve clean, tidy edges. We used Chicago Metallic<sup>M</sup> T24 2890 grid to install these lightweight tiles. The job ran smoothly and we met our deadline with ease."

Minster Insulation and Drylining, Sheffield, supplied the Rockfon Tropic E edge ceiling tiles and Chicago Metallic grids. Minster stock a wide range of our products in branches across the country.

Rockfon Tropic is a robust, easy to clean ceiling. It's available in a range of standard sizes and installation options including visible and semi-concealed grids, giving architects the freedom to produce openplan environments that can be configured to any design. The ceiling tiles and grid offer the highest fire safety classification A1, which is a must for all buildings which are open to the public.

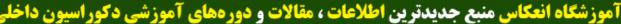
#### Client feedback

Sytner Group, Group Project Manager, Peter Huxley, "I am delighted to welcome visitors to this truly world-class facility. The showroom oozes luxury and prestige. Being able to have private conversations in a large open space is a huge benefit, and one our customers and staff value."

If you're working on a large-scale project and would like information on how to achieve a ceiling that can meet and exceed required criteria, contact us by email info@rockfon.co.uk or visit www.rockfon.co.uk



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### Promat SYSTEMGLAS® Ferro Provides Assured Fire Protection For Dublin Landings

Assured passive fire protection for a spectacular central atrium in Dublin city centre's largest and most prestigious new commercial development has been provided by over 300m<sup>2</sup> of Promat SYSTEMGLAS® Ferro.

Installed by Allied, a market leader in interior solutions, the proven butt-jointed, steel framed fire resistant glazing system has been used to create all the glass screens which encapsulate the atrium at the heart of No. 1 Dublin Landings.

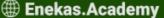
Part of Ballymore and Oxley's scheme with an investment value of  ${\small { \in } 700m,}$  this is the key office building within the one million sq. ft. mixed use joint development on North Wall Quay on the banks of the River Liffey. It is home to Ireland's National Treasury Management Agency (NTMA), which provides a range of asset and liability

management services to Government, with the site also providing the new headquarters for the Central Bank of Ireland. The central atrium rises through the Arrow/RKD Architects designed building, with each level featuring SYSTEMGLAS Ferro as a floor to ceiling glazed screen delivering the optimum balance of aesthetics, strength and fire safety.

The market-leading system ensures that maximum natural daylight can be provided into the office space on each level, whilst providing assured fire protection with integrity and insulation (EI) for 30 minutes and the ability to withstand an impact load of up to a 1.5kN.

Meeting the developers' goal of raising the bar on architecture in Dublin to a standard seen in other global financial centres, the design and specification utilises the highest quality materials and components.

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As part of this process, SYSTEMGLAS Ferro was selected thanks to its 360 degree 'wheel of assurance', which ensures all the fire resistant glazing screens are checked for compliance at every stage from design and specification, through manufacture and during installation.

Tim Evans, Managing Director at Allied said: "We are really pleased to have been part of this tremendous development, which is transforming a major site within Dublin's Docklands and represents such an important step in supporting Ireland's next generation of creative, technological and financial businesses.



"That's why the specification had to be right, with no margin for error, and that applied to the fire resistant screens around the atrium as much as anything else. We very much share Promat's 'Specified for a Reason' ethos, and with their support, we have been able to deliver an outstanding result which reflects the significance of Dublin Landings and provides assured fire protection for people and assets should the worst ever happen."

The steel framed SYSTEMGLAS Ferro is one of four fire resistant glazing solutions available in the range, which can be specified to provide protection from 30 to 120 minutes (EI – integrity and insulation). The range includes a timber system, SYSTEMGLAS Ligna, as well as SYSTEMGLAS Celare and Advenerat which utilise PROMATECT® H for the outer framing to enable painting or over-cladding to match surrounding décor, or concealment to provide a virtually frameless result.

All technical data and specification guidance on the Promat SYSTEMGLAS range is available in the Promat Specifiers Guide, plus specific literature for each of the four systems. These are available to download at www.promat-glass.co.uk.

#### Holistic Approach To Best Use Of Resources In Education

A local education authority is optimising best value in a major capital building programme- right through to pupil intimate care. Dundee City Council is undertaking a £350million investment plan including regeneration of the waterfront, affordable housing and new schools, with the last designed to



deliver suitable, sustainable and accessible buildings that make the best use of resources. The capital projects team has therefore future-proofed the school building designs by including specialist equipment from Closomat, to create accessible toilet facilities. The latest project features a Closomat Palma Vita shower (wash & dry) toilet with height adjustable washbasin and ceiling

track hoist. Looking like, and capable of being used as a conventional WC, the Closomat Palma Vita has integrated douching and drying. As a result, all pupils, irrespective of ability, can rely on the Closomat to clean them efficiently and consistently; if they need help with their intimate care, optimum cleanliness can be achieved without involvement from support staff. The provision of a hoist means should pupils need help to transfer from a wheelchair, this can be done safely and securely for them, and support staff. The height adjustable washbasin enables all users to comfortably clean their hands, whether ambulant or in a wheelchair. www.clos-o-mat.com

### Wilo Pumps Help Energy Efficiency In Isle Of Man Hospital

Wilo has supplied 32 pumps to Nobles Hospital, just outside the Isle of Man's capital, Douglas. As an example of the savings achievable, the BL pump installed on the chilled water system as the initial trial product for the project, is so far delivering £11,000 per annum in savings when compared

to its fixed speed predecessor, based on £0.14 per kWh. "The Isle of Man Government is committed to making the island as 'green' as we can make it for our residents," says engineer Paul Bevan. "It's a beautiful island so it's vital that we operate an integrated programme of trying to ensure that in every



way we can, we make it as energy efficient and as environmentally attractive as possible." And Paul keeps a close eye on all the projects being undertaken across the Isle of Man via a BMS (Building Management System) that can remotely monitor more than 80 sites across the island, including the hospital, allowing for efficient diagnostics and rapid trouble shooting in real time. www.wilo.co.uk



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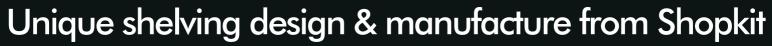












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