Important Smoke Control Notice
Product and System Safety Guidance

If you are involved in the ownership, management or fire safety approval of high rise buildings, or if you install AOVs and smoke control systems, take note of this important information from SE Controls.

Under the Regulatory Reform (Fire Safety) Order 2005, the building owner or manager is responsible for ensuring the smoke ventilation system is compliant. Compliance doesn't just mean having a fire safety contract for a building, compliance is about providing a regulated building which is safe for occupation.

If a contractor is used to install or maintain the smoke ventilation system, make sure they can provide evidence that the system is compliant, and therefore safe. Below are some key things to look out for.

**EN 12101**
For a product to be placed on the market in the European Economic Area, it must be CE marked. Under the Construction Product Regulations, it must be CE marked to a particular standard, in the case of smoke ventilation it is to the EN 12101 suite of standards. A Declaration of Performance (DoP) can only be issued if these requirements have been met.

- EN 12101: Pt 2 – Natural Smoke and Heat Exhaust Ventilators (SHEV)
- EN 12101: Pt 3 – Powered SHEVs
- EN 12101: Pt 6 – Pressurised Differential Systems
- EN 12101: Pt 8 – Smoke Control Dampers
- EN 12101: Pt 9 provisional – Control Panels
- EN 12101: Pt 10 – Power Supplies

These standards often have specific requirements relating to installation or testing practice. For example, EN 12101: Pt 2 dictates that unless the actuator and vent profile are tested together as a system, in a fire environment and at an accredited facility, it is not compliant; therefore its safety can't be guaranteed and a DoP can't be issued.

**BS7346-8 Code of Practice**
BS7346-8 summarises the entire process from design, installation, commissioning and maintenance of the system.

**Approved Document B**
Approved Document B (ADB) provides guidance on complying with the building regulations with regards to means of escape, travel distances, vent locations, free area calculations, access and limiting fire spread.

**BS9999 and BS9991**
These standards cover fire safety in the design, management and use of non-residential and residential buildings respectively.

SE Controls is a member of the Smoke Control Association. If you want to check that the system you have is fit for purpose contact SE Controls for further information.
Viessmann boilers awarded Best Buy status

Viessmann has secured a Which? Best Buy status for its six most popular Vitodens gas boilers for the second year in succession. The annual survey by Which? conducts robust research in order to "reveal the boiler brands you can trust." Viessmann is also one of only two boiler brands to score five stars for reliability, customer satisfaction, and engineers’ recommendations. In the overall brand assessment – based on reliability, customers’ scores, and the expert views of engineers – Viessmann scored second place in the table.

Which? reports that the survey again resulted in "a huge difference in overall score between the best boiler brands and the worst." Graham Russell, Viessmann managing director, commented: "We are delighted to receive this endorsement for the second year running. It is reassuring to hear from a respected independent source that our Which? Best Buy boilers are pleasing end-users. And it is especially satisfying to score a top rating from heating engineers."

www.viessmann.co.uk

Reynaers has introduced its latest RIBA-approved CPD that looks at all aspects of aluminium curtain walling.

The newest CPD touches on some key areas for consideration when specifying the product and features types of curtain walling, design aesthetics, performance, standards and building regulations as well as a number of eye-catching case studies.

The leading aluminium systems supplier has long been providing a programme of high quality CPD material to architects and specifiers.

It has developed a number of other presentations and seminars, independently certified by RIBA. New Module 1 focuses entirely on curtain walling and the second module, also approved by RIBA, covers sustainability and aluminium systems to aid architects and specifiers develop their knowledge and earn points. The material is exclusive to architects and specifiers and is offered as a 45-minute seminar across the UK.

Marketing manager at Reynaers Rebecca Cope said: "We have invested in a number of new CPD presentations, with more in the pipeline that will be made available online soon. If you are interested in finding out more about what materials we might be able to provide, email or call us and a member of the team will be in touch."

0121 421 1999
reynaersltd@reynaers.com

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“My supplier said the smoke vents are compliant” ...but can they issue the proof?

Don’t take risks. Take responsibility.

SE Controls actuators are tested to the EN12101-2 smoke ventilation standard, in combination with leading façade systems, to ensure correct functionality in an emergency.

The proof of compliance is the issuing of the Declaration of Performance (DoP), which will be required by the contract team, client and authority signing off the building.

A rigorous third party audited process that covers fabrication and installation is required, which SE Controls can provide directly, or via our network of audited fabricators and installer partners.

Visit our Tested Solutions website portal and register to view a range of support documents regarding specific window systems, tested products and industry related information.

No DoP, no compliance. Demand it. Let us remove your risk.
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, while 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.”

01543 443060
www.secontrols.com
Stylish casing solutions 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 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 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® 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.

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 per cent 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.

Andrew Mackenzie, Managing Director, said about the award: “This is a remarkable achievement for everybody in our Company, we are truly delighted. We never forget that our continued success is reliant on our brilliant staff and I am so proud of the team here and everything they do. It is only right that the Company strives to provide the best possible culture and working environment for all employees and the Investors in People accreditation is a great way of seeing how we are doing and where we should focus to make Bauder an even better place to work.”

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. Bauder had been awarded Gold IIP standard in the two previous assessments and has gained the top accolades since 2012.

IIP was launched in 1991 to raise the performance of UK businesses relative to international competitors. The Investors in People framework defines what it takes to lead, support and manage people well for sustainable results. In September 2015, Investors in People launched the Sixth Generation Standard, to reflect the latest of workplace trends and robust practices required to create outperforming teams.

The Investors in People Framework is a four stage performance model with nine performance indicators which enable measurement and benchmarking across key business areas such as; Leadingand inspiring people, Living the organisation’s values and behaviours, Empowering and involving people, Managing performance, Recognising and rewarding high performance, Structuring work, Building capability, Delivering continuous improvement and Creating sustainable success.

01473 257671  www.bauder.co.uk
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Because the facade cladding boards are produced from the volcanic rock basalt, they can withstand particularly high temperatures. Our FS-Xtra boards meet European fire class A2-s1,d0 when fixed on a metal sub-frame with rivets.

Rockpanel A2 facade cladding in combination with ROCKWOOL® non-combustible stonewool insulation offers the ultimate fire-safe solution for the building envelope.

To find out more visit:

rockpanel.co.uk
rockwool.co.uk

Part of the ROCKWOOL Group
Newton Waterproofing’s 170th anniversary celebrations got going in style in June, as the historic company hosted over 70 contractors, architects, engineers and specifiers aboard the ‘William B’ Thames cruiser. Guests were treated to a rivers-eye view of some of the iconic London buildings that Newton has waterproofed and damp proofed over the years.

Times Local Business Awards
Rather fittingly, on the same night Newton also received the Family Business of the Year Award at the Times Local Business Awards, in recognition of the initiative and talent consistently displayed by Newton.

Property Care Association Best Practice Awards
More celebrations were in order two days later as Newton also won the Sustainability Award at the Property Care Association Best Practice Awards. Newton were recognised for their industry-leading Membrane Recycling Service, which is unique not just within property care, but within the construction industry as a whole.

Kent Excellence in Business Awards
Finally, Newton won two more prizes at the prestigious Kent Excellent in Business Awards (KEiBAs). The team were ecstatic to receive the Commitment to the Environment and Medium Business of the Year Awards, which recognised the significant steps being taken by the company to improve its environmental credentials, and the product range, service levels and family culture within the company as a whole.

“All of the Newton family are proud to be part of this hardworking and fun-loving team, and these awards are a wonderful recognition of the contributions that every single team member has made towards our achievements over the years. I think the original John Newton would have approved.”

said Warren Muschialli, Managing Director.

01732 496511
info@newtonwaterproofing.co.uk

BBA Certified Damp Proofing from Newton

Thanks to its new BBA certified damp proofing range, Newton Waterproofing Systems, one of the oldest independent UK damp proofing suppliers, can now provide a comprehensive solution for rising damp.

To prevent rising damp from occurring in new builds, a physical damp proof course (DPC), such as the BBA certified Newton 809-DPC, is installed. However, in remedial rising damp situations the best method is to use Newton 804-DPC, a high strength and BBA certified damp proofing cream, to convert an existing mortar course into a new DPC. Newton 808-RA is then used as a render additive to prevent the passage of residual moisture and hygroscopic salts from the masonry to the new internal surface.

Collectively, the Newtonite Damp Proofing System can be combined to provide a BBA certified solution to all forms of damp, from rising damp to penetrating damp, residual hygroscopic damp and condensation.

01732 806 963   www.newtonwaterproofing.co.uk

Fireproof balcony flooring

Neaco’s latest range of fireproof balcony flooring systems provides an exceptional combination of safety and durability. All systems are manufactured from aluminium which is A1 Fire Rated and fully compliant with Class 0 of Approved Document B ‘Fire Safety’. The aluminium is also corrosive-free, with a design life up to 120 years, providing maintenance-free use and far greater longevity in comparison to wood-based decking solutions. Each option provides efficient drainage which avoids the need for cumbersome soffits, hoppers and drainpipes. The decking surfaces are specially engineered for exceptional slip resistance.

sales@neaco.co.uk

Clean air strategy is a breath of fresh air

Vortice Limited has always been committed to educating its customers about the importance of ventilation and is now thrilled to get behind DEFRA’s new clean air strategy consultation. This new draft outlines very simply that ‘Air pollution is the top environmental risk to human health in the UK, and the fourth greatest threat to public health after cancer’. The draft clearly shows the connection between suitable, correct ventilation and good indoor air quality which maintains the health and wellbeing of the occupants.

01283 492949   www.vortice.ltd.uk
THE FUTURE’S BRIGHT FOR ANY BUILDING
WITH ZENON EVOLUTION ROOFLIGHTS

Zenon Evolution rooflights, incorporated into the metal building envelope, are the optimum solution for environmentally conscious industrial or commercial buildings. Highly efficient, they offer excellent light diffusion, eliminating glare by maximising the effects of natural daylight. Innovative reinforcement technology generates excellent impact resistance and precision profiling along with minimum embodied carbon. Zenon Evolution is second to none for durability and performance, giving peace of mind for the future.

DISCOVER MORE: WWW.HAMBLESIDE-DANELAW.CO.UK/ZENON-ROOFLIGHTS
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Bona Certified Contractors, Timbered Flooring, used Bona products for the installation and finishing of a 20mm engineered, dark fumed oak parquet floor at London’s new urban hotel, Assembly London.

Bona D501 primer was applied to the WBP plywood subfloor, and then the parquet blocks were stuck down using Bona R848 silane adhesive. The pre-wirebrushed blocks were then finished with Bona Craft Oil 2K (Frost) and buffed back again to achieve a white limed effect in the grain – which also took away some of the darkness of the fumed oak. Two coats of Bona Traffic HD (silk matt) lacquer – Bona’s most durable polyurethane finish – was then applied to provide the hard wearing surface required in the busy bar area.

The fast curing time of both Bona Craft Oil 2K and Bona Traffic HD enabled the Timbered team to work within a tight timetable.

Timbered Flooring’s Laurence Warburton said, “We also provided a maintenance specification to the client which included regular cleaning with Bona Cleaner and an annual rebuffing and resealing with Traffic HD. Following a maintenance regime like this means the floor will always look good and the expense and downtime caused by sanding it back to bare wood will be avoided.”

Bona Craft Oil 2K is available in a range of 11 standard colours as well as custom shades which can be mixed on request. Already a hard wearing finishing treatment when used on its own, the oil can also be overcoated with any version of Bona Traffic to provide ultimate durability – a useful option for busy public areas like Assembly London’s rooftop bar space.

Opened in May 2018, Assembly London is located in the centre of the city’s thriving West-End. Fun, sophisticated and playful, the hotel gives everything that matters for a great night’s sleep!

01908 525 150
www.bona.com
James Jones picks EGGER Protect for latest processing plant

A leading sawmiller and timber processor, James Jones & Sons Ltd, specified EGGER Protect for durable, non-slip structural flooring at its new secondary processing and treatment facility at Hangingshaw, near Lockerbie.

The 20,000 square metre building is the size of three football pitches, and the centrepiece of a recently completed £17 million development designed to increase the company’s production of fencing products. These include incised posts that have grown rapidly in popularity since James Jones launched them in 2013.

“This is a less-common application of EGGER Protect which is usually used in housebuilding,” said Alan White, Director of Sales for EGGER Building Products. “A market-leading structural flooring panel, Protect is made from our P5 flooring-grade chipboard with a durable, anti-slip, moisture-resistant surface layer.

“This surface layer is applied to both the top and underside of the board, resulting in a product that offers protection from moisture penetration, not just during construction but for the life of the floor.

Specifying EGGER Protect for this application also brings Health & Safety benefits, with the textured surface offering market-leading anti-slip characteristics as well as being hard-wearing and robust. When used with EGGER D4 Joint and Joist Adhesive as part of the EGGER Advanced Flooring System it also carries a unique lifetime guarantee.

James Jones technical manager, Tobbe Sandberg, added: “The 18 acre Hangingshaw development is a strategic investment for the company. This new facility is designed to enhance our position as of the UK’s biggest suppliers of sawn timber products including carcassing, fencing, pallet wood and heavy sections.

“The secondary processing facility is central to the production and storage of our fencing products and we were looking for a structural flooring board that not only had the technical properties we needed but an appearance that enhanced the look of our showpiece building.

“We have installed EGGER Protect flooring on all of the high-level walkways and access platforms around the advanced production machines. It is durable, easy to install and keep clean and is not slippery even with moisture or sawdust on it. And, importantly, it also looks good!”

0845 602 4444
www.egger.com/building

Don’t play with fire

W e all await the inevitable changes to legislation and good practice, following Dame Judith Hackitt’s independent review of risk critical building products such as fire doors and fire door assemblies and how this will shape future product specification.

Understandably anticipation has resulted in concern amongst specifiers and stake holders as they try to evaluate their current practices and identify potential weaknesses. After all the specification of fire doors is a very serious matter and we all know can have far reaching consequences if wrong decisions are made. It is little wonder therefore, that for specifiers using Vicaima products, any feeling of anxiety and apprehension regarding past, current and future use of fire doors is not an issue; providing of course that they have been correctly installed.

In addition to doors, Vicaima also manufacture a range of door kit solutions via our Easi-Fit and Portaro brands. These products include a full scope of performance characteristics for current and future industry specifications, namely:

- Fire Tested to BS 476 Part 22 and BS EN 1634-1:2014
- Secure by Design approved products
- Acoustic performance, both inherent and additional as required
- FD30 to FD90 rated, with fire and smoke solutions
- Durability with DD171 and EN 1192 severe duty rating
- Mobility provision via glazing and dimensional flexibility
- Environmentally sound (all products are FSC Certified)
- Long life with a 10 Year Guarantee
- Mobility provision via glazing and dimensional flexibility

As specialist fire door manufacturers Vicaima go beyond simple compliance to provide ultimate peace of mind. Vicaima uses fully solid cores and a traditional stile and rail perimeter to enable reliable fixing of ironmongery. After all sometimes it is what you cannot see that makes the difference.

One of the recommendations outlined within the Independent Review, is the need for third party accreditation. Here Vicaima adhere to not one but two nationally recognised bodies to verify the performance of products, namely BWF-Certifire and BM TRADA Q-Mark. In each case traceability is assured with the use of tamper evident labels and plastic plugs to provide clear understanding of fire rating and of course origin of manufacture. You or indeed future custodians of fitted fire doors will be left in no doubt simply by looking at the top edge of any Vicaima fire door, where clear identification including a detailed inkjet stamp enables Vicaima to establish complete control of our products throughout their lifecycle.

01793 532 333  www.vicaima.com

www.buildingconstructiondesign.co.uk 15
Clean paint solutions from Crown Trade

Crown Trade has extended its Clean Extreme range to offer specifiers a trio of high performance products to help combat the common problems of dirt, mould and bacteria. The water-based range offers three quick drying and low odour solutions to creating clean and hygienic surfaces and features Clean Extreme Anti-Bacterial Scrubbable Matt, Clean Extreme Stain Resistant Scrubbable Matt and Clean Extreme Mould Inhibiting Scrubbable Matt. The full Clean Extreme range is also available in a high performance, stain-resistant, durable and washable Acrylic Eggshell mid sheen finish.

www.crownpaintspec.co.uk

Offsite solutions awarded

Offsite Solutions, one of the UK’s leading bathroom pod manufacturers, has been awarded an £8m contract by Berkeley Homes for the offsite manufacture of more than 900 high specification bathrooms for the 68-storey Valiant Tower at South Quay Plaza – a landmark development in the historic London Docklands. The contract is the UK’s largest bathroom pod contract for a single residential scheme and the highest value project to be awarded to Offsite Solutions in the history of the company.

info@offsitesolutions.com

LowBoard provides ideal UFH solution

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. A spokesperson for the project team commented: “The LowBoard22 system from OMNIE delivers good efficiency using low circuit temperatures while keeping build height to an absolute minimum. The decision to use one of OMNIE’s UltraLow options not only down to its minimal depth, but also the straightforward installation process, low wastage, and overall value for money.”

01392 363605    www.omnie.co.uk

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Terrazzo: The trend that stands the test of time

Recently it's been seen as a one-hit wonder from the 70s, but terrazzo has in fact been a popular material ever since Ancient Rome and today it's back among the top global design trends. Thanks to the versatility of seamless resin terrazzo flooring, it provides the designers of large commercial facilities with the opportunity to think of the floor area as one massive canvas. Getting creative with the aggregates added in the resin mix also gives designers the ability to tailor the shimmer and shine that's achieved across the floor area. For example, crystal mirror glass, marble, flint, granite and mother of pearl can all be incorporated into a resin terrazzo floor. Thanks to its ability to transform an environment and provide an easy to maintain finish, Flowcrete’s seamless resin terrazzo range Mondéco has been installed in a long list of prestigious, high-end locations around the world. In 2017 Leicester Square Kitchen embraced a technological advance in the world of terrazzo. 100 square metres of Mondéco Rapide was applied in and around the restaurant’s central bar area. The floor was applied at night, which meant that by the morning it was sufficiently cured.

01270 753000 www.flowcrete.co.uk

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, a manufacturer, supplier and installer of quality cubicles, panels, lockers, changing room furniture and paneling. 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. Compact grade laminate is perfect for this kind of heavy-duty application where aesthetics and visual appeal need to be coupled with high performance and long-life cycles. Suitable for both wet and dry areas, they are known as hardwearing, durable and very attractive solutions for cubicle, partition and locker applications with excellent resistance to impact, scratches and abrasion.

uk.abetlaminati.com

Here to help customers grow

Freefoam highlights the updates and additions to its whole product range that have taken place over the last six months. The roofline range has had a boost with the addition of Anthracite Grey to the Round Rainwater system. With the continuing growth in grey across the window, door and roofline market this new product means suppliers can now offer both the Deep and Round gutter options to customers. The phenomenal demand for cladding shows no signs of slowing. Freefoam added a beautiful subtle grey green shade to its 170mm Weatherboard range called Sage Green. Appealing to those who want to achieve a traditional ‘heritage’ look but with the benefits of low maintenance PVC. Freefoam extended the Geopanel range adding new designs and colours including tile, slate and concrete effects. Freefoam has also added to its internal panelling range, launching Acrylic Panels. High quality, high specification panels suitable for kitchens and bathrooms in a contemporary colour range.

01604 591110 www.freefoam.com

CAST IRON RADIATOR SPECIALISTS

Radiator Renovator has a proven track record in working alongside architects and building professional of various disciplines in order to supply and renovate all types of cast iron radiators. We aim to give you a sincere and trustworthy service based on you and your customer's requirements. We have worked on high profile prestigious restoration and new build programmes across various sites ranging from important national heritage buildings through to universities and schools and private and commercial conference facilities.

07908 971657 workshop@radiatorrenovator.co.uk
www.castironradiatorrenovation.co.uk

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07908 971657 workshop@radiatorrenovator.co.uk
www.castironradiatorrenovation.co.uk
Gluckman Smith Architects’ Font House project – recently announced as an RIBA Regional Awards winner – is defined by its palette of high quality materials, including pre-weathered Nordic Brass roofing.

Font House is located within a historic walled garden in the grounds of Grade I listed Nevill Holt Hall in Leicestershire. The new house and landscaped garden provide discreet entertainment space, supporting Nevill Holt’s Opera festival, and is at the heart of the owner’s vision of breathing new life into a historic country estate.

The design takes on a symmetrical form with the composed presence of a pavilion. A large central reception space is framed by two simple bedrooms that project beyond the central mass of the building and overlook two ponds. In turn, these ponds wrap around a south facing terrace that is accessed from the reception space.

The material palette draws inspiration from the surroundings and from local materials. The series of hand-crafted pre-weathered Nordic Brass roofs, encapsulating a central rooflight and set on ironstone facades, are inspired by the Hall itself.

Gluckman Smith Architects’ won the RIBA 2018 East Midlands Award for Font House, along with the Conservation award and Project architect award. The RIBA judges reported that: ‘Sitting at just the perfect height the beautifully executed [brass] roof can be glimpsed from the main hall, tempting the visitor on…the [brass] roof is a triumph’.

Nordic Brass is an alloy of copper and zinc manufactured by Aurubis. Other Nordic Copper ranges from Aurubis include Nordic Standard ‘mill finish’ and Nordic Brown pre-oxidised copper, offering lighter or darker shades of brown determined by the thickness of the oxide layer.

The extensive Nordic Blue, Nordic Green and new Nordic Turquoise ranges have been developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world. As well as the solid patina colours, ‘Living’ surfaces are available for each with other intensities of patina flecks revealing some of the dark oxidised background material.

01875 812 144  www.nordiccopper.com

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Now it’s time to lift and slide our product range with Comar 7Pi LS+. Innovative lift and slide gearing provides smooth operation for door configurations up to 12 metres wide and 3 metres high, creating unobstructed sliding walls. This real advantage of the system is it’s smooth and easy lift operation. From one system, Comar 7Pi LS+ provides delivered solutions for the summer months: maximise the opening space with the three-track slider which creates two thirds clear opening, whilst in the winter the lowest U-values keep out the cold. The real advantage of this system is it’s smooth and easy lift operation. From one system, Comar 7Pi LS+ provides delivered solutions for the summer months: maximise the opening space with the three-track slider which creates two thirds clear opening, whilst in the winter the lowest U-values keep out the cold. Innovation comes from Comar 7Pi LS+ offering unique solutions from one system, which means that with the same profiles you can provide lift slide or straight rolling gear, standard or slim interlock, enhanced performance with the inclusion of thermal foam and double or triple track configurations. Optional slim interlocks maximise the homeowners view out when the doors are in the closed position keeping the slim sightlines of Comar 7Pi LS+ doors with the reassurance of the lowest U-values, so even in the coldest winter months daylighting is maximised and warmth assured. For a standard CEN size set of doors, U-values are down to 1.4 with a 1.0 centre pane and using glass technology and Comar’s Enhanced Thermal Foam U-values of 0.74 are achievable. The real advantage of this system is it’s smooth and easy lift operation, it’s ease of operation for sliding doors means that there is no alternative; it really is a lift slide life for all members of the family. Another advantage is the ability to lock the door in an open position anywhere along the track which means that the homeowner can open the door for ventilation without the risk of small children and toddlers exiting the doors. For our fabricator and trade partners, Comar Systems utilises multi-function profiles which means that from a minimum stock all configurations of this feature laden system can be fabricated. Installers with the unique Comar Easyfit components minimise time on site and disruption to the home owner whilst maximising returns. Feedback from the UKAS Accredited Test House was “it is the best they’d ever seen”, as it passed BS6375 Parts one, two and three with no water leakage at 1000Pa. The feedback has been outstanding and Comar 7Pi LS+ is now available with new triple glazed units providing ever wider specified. Comar 7Pi LS+ now provides a future proof solution with a glazing pocket of up to 57mm. With a simple change of gasket and beads the Comar 7Pi LS+ provides this flexible solution for all your glazing needs. Projects: +44 0848 321 1850. 020 8685 2318
The new Dogs Trust Manchester Re-homing Centre includes kennels for 61 dogs with abundant space allocated for indoor and outdoor dog exercise areas. The Centre’s buildings are designed to provide visitor friendly facilities for training sessions and demonstrations on how to improve dog behaviour. Visitors will also be able to learn more about different breeds and their responsibilities as owners.

Of course, keeping the kennels and exercise areas clean, fresh and hygienic is a major consideration in the design of such a facility. Contractors McPhillips were keen to provide the best possible surface water drainage system, so asked Hauraton to supply their recommended channels for trial at the Trust’s Loughborough Centre. Hauraton specified FASERFIX® KS 100 channels fitted with FIBRETEC® moulded gratings. The test installation proved very successful and with everyone liking the product, the KS surface drainage system was chosen for the Manchester project.

FASERFIX® KS channels are made from Fibre Reinforced Concrete (FRC), and for this project, were specified with stainless steel pressings permanently moulded along their exposed top edges making the whole unit resistant to any cleaning fluids used. The material, PA-GF is used to make the FIBRETEC® grating. This was developed by Hauraton some years ago and has proved itself in numerous demanding drainage applications. The fibre reinforced plastic moulding is corrosion resistant and offers high stability and huge strength for its weight. Indeed the Class C250 (BSEN 1433) 8mm slotted grating, can take the weight of a commercial vehicle if necessary. With emphases on detailed design, the grating is very appropriate for use in areas where a visually appealing and chemically resistant product is important.

Each channel assembly features the company’s patented SIDE-LOCK boltless fixing system which allows for quick fitting or removal of the gratings. For example, 10 metres of 0.5m long gratings can be fitted or removed in about 70 seconds – a big advantage if the channels need clearing.

The auditorium for the Humanities Division of Uppsala University (Humanistiska Teatern) is an innovative and unique building designed in the shape of a horseshoe. Unlike traditional lecture halls, the horseshoe-shaped design of this unique building allows all in the auditorium to see and hear each other, encouraging both speakers and attendees to participate in lectures and debates. This unusual building is encapsulated in a spectacular facade created from over 300 perforated aluminium sheets. The vision of artist Ann Lislegaard has been brought to life by using RMIG ImagePerf technology to transfer her intricate design to the metal sheets.

White Arkitekter has been awarded the prestigious Swedish architectural prize PLÄTT18, in recognition of the innovative use of perforated metal.

<table>
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<tr>
<th>PROJECT DETAILS</th>
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<tr>
<td>Humanistiska Teatern, Uppsala University</td>
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<td>University campus auditorium, Sweden</td>
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<td>Architects: White Arkitekter</td>
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<td>Artist: Ann Lislegaard</td>
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<table>
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<tr>
<th>Technical Characteristics</th>
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<tr>
<td>Raw material: Aluminium EN AW-5754</td>
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<td>Pattern: RMIG ImagePerf</td>
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<tr>
<td>Thickness: 3.0 mm</td>
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<td>Finishing operations: Bending</td>
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Shining light on a centre of excellence

The Foyle Arena in Derry uses large areas of Kalwall® 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 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, gymnasias, 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.

Kalwall is a popular choice for projects where performance, long life cycle and low maintenance are required, coupled with an aesthetic finish. The lightweight system reduces the need for supporting structures while offering the highest protection in terms of wind-borne debris and resistance to impact, abrasion and point loads.

Viiu becomes UK’s first PAS24-2016 accredited slimline sliding door

Viiu, the outstanding slim-line sliding door taking the market by storm, has become the first product of its type to pass the new more stringent security standard PAS24-2016.

Viiu offers ultra-slim sightlines, secure laminated glass throughout and an ingenious, unobtrusive design. With the outer-frame entirely built into the facade, it gives the appearance of a wall of glass, strong enough to support moving glass sections of up to 750kg, and fixed glass sections up to 1200kg.

But it’s the product’s unusually slim but robust interlock section that’s allowed it to achieve much sought-after PAS24-2016 accreditation.

“The PAS24-2016 process is extremely challenging,” explains Viiu Sales Director Rod Tate. “It was recently updated to stipulate the interlocks should not part by 50mm under 450kgs of force from both sides. As a result, most systems on the market found themselves in trouble. They simply hadn’t been designed to withstand that level of force.

“During testing, most slim interlocks bend under the pressure, often resulting in gaps bigger than the magic figure of 50mm – the minimum amount of space a would-be intruder could realistically get their arm through.

“Viiu is the first and as-yet only system to stand up to that level of force. A simple look at the shape and size of the Viiu interlock shows that by design it has the strength required to pass the test. We have video evidence showing there was no gap at all between Viiu’s inside and outside interlock.”

Viiu is also a cut above the competition in other ways. A motorised option is also available – and its drive gear is discreetly housed in the unit’s 100mm head profile, which itself is hidden behind the building’s facade.

Most competitor products, by contrast, require chunky head profiles up to 300mm in height. The motor can be easily accessed from below for maintenance or repair without the need for ugly internal access panels inside the home.

What’s more, Viiu comes with automatic obstruction detection on motorised models, and a choice of wall-mounted or key fob operation.

0800 877 0077 www.viiu.co.uk
For 25 years, EverEdge have been known as ‘The Edging Company’. We have been manufacturing edging for gardens, parks and public buildings and this edging range has been installed across the world. In more recent years, there has been a boom in demand for podium landscaping products and EverEdge have been supplying custom made steel planter walls for projects across the UK. EverEdge have a busy custom made department able to advice and quote on projects of all sizes.

The attached project, an installation on a new building in Islington, required a range of edging products from as little as 100mm to 600mm high and a mixture of curves, straight lines and corners. This Islington Square development is offering 250 residential units as well as leisure and retail facilities. EverEdge are providing steel edging and planters for private roof terraces as well as communal gardens and spaces.

Green roofs and podium gardens have become a must on new city developments. They are an excellent way to improve green spaces in built up areas whilst providing the much needed new homes. Creating podium gardens creates a number of challenges. With our years of experience in manufacturing steel edging products, EverEdge are perfectly placed to advise on the best way to handle these challenges.

01630 417120
www.everedge.co.uk

The Primark Distribution Centre, near Kettering was developed by London Metric Property Plc. Known as Thunderbird 2 the £77 million facility comprises a 93,000m² warehouse, some 5,000m² of office space and 50,000m² of hard standing with parking for 175 HGVs and 530 cars. A major earthworks operation was necessary to level the ground and create the vast plateau on which the building and hard standings were constructed. With such a large hard standing area an effective surface water drainage system was essential.

Having supplied high capacity surface water drainage channels for hard-standing areas at numerous distribution centres throughout the UK, Hauraton were confident their RECYFIX® HICAP® high capacity channels would comply with the stringent specification asked for by the contractors.

It was decided to drain the hard standing area using four sizes of RECYFIX® HICAP® – 100, 200, 300 and 680 because of their overall volume capacities. As well as straight runs of 100 and 200 channels, the 200, 300 and 680 sizes were installed in a step fall arrangement providing an enhanced water volume for these runs of 366,324 litres per metre (l/m). All the sizes supplied had fixed ductile iron, 14mm open slot inlets finished with KTL, a rust resistant coating. All 1229 metres of RECYFIX® HICAP® channel installed complied with loading category Class F900 (900kN).

In addition some 200m of Hauraton FASERFIX® KS 100 channel with HEELSAFE ductile iron gratings were also installed in the site car parks requiring a loading category of Class C250 (250kN). The gratings were also specified with a KTL coating.

01582 501380
www.hauraton.co.uk
New Paving Resource Launched

The trade association Interpave has just launched its new hard landscape, commercial paving and SuDS resource website www.paving.org.uk for architects, urban designers, engineers and other specifiers, at all stages of the design process.

Concrete block paving, flags, kerbs and related products play a key role in urban design, public realm and the spaces around and between buildings. In particular, concrete block permeable paving is the most versatile, multifunctional solution to meet Sustainable Drainage System (SuDS) requirements.

The new website provides an essential resource covering all aspects of design with precast concrete products, including an inspirational project gallery and case studies, supported by background information for early design stages, as well as CPD. A comprehensive series of technical documents covering all types of precast concrete paving products provide the definitive source of guidance for specifiers and contractors – including detailing, construction and maintenance.

Over the coming weeks, several new or updated Interpave technical and educational documents will be launched and specifiers can register on the website to be kept up-to-date with the latest publications and projects.

Representing major UK manufacturers, Interpave promotes and develops precast concrete paving as a modern, flexible and sustainable technology for applications ranging from hard landscape to the heaviest-duty commercial pavements.

0116 232 5170   www.paving.org.uk

An evolution in colour

Powder coating has transformed the metal finishing world and made the use of metal, in all forms of construction, increasingly exciting for architects. While high impact colour statements enhance many townscapes, the beauty of metal itself is making a resurgence as an impressive design feature. Recent trends are towards naturally weathered metals and Powdertech Corby has responded with its own flagship collection, Evolution™, a range of powder coatings offering the organic, natural look of metal patination.

The name ‘Evolution™’ reflects the changes in appearance that occur as metals evolve, in their natural state, when exposed to the atmosphere. The colours and textures caused by rust on iron, blue-green verdigris oxidation on copper, and other metal patinas are all visually attractive and recognised for their natural beauty. Of course, metal in this state is not fit for purpose – it is decaying and losing its integrity. Evolution™ powder coatings offer the best of both worlds; the desired appearance of weathered metal together with high level protection against weathering for your metal.

The powders used for Evolution™ are all of architectural specification, meeting all necessary Qualicoat and British/European standards. Customers expect the highest possible quality and all products used are rigorously tested for durability, corrosion protection and colour stability. Our unique process, carried out under controlled conditions, results in a finish that is suitable for internal and external architectural applications with a natural and authentic variation in appearance that will be unique to every customer. Evolution™ takes patination into new realms with seventy-two different shades currently. Continuing with an evolution theme, these shades are grouped into five ranges – Stone Age, Bronze Age, Iron Age and Steam Age to Modern Day.

With Evolution™, designers and architects can employ the strength and versatility of metal and celebrate its beauty by protecting it with a coating that not only ensures longevity but reflects how its appearance would evolve over time, in the natural environment. Specifiers and manufacturers can select the powders with full confidence in their suitability and performance, confirmed by Powdertech’s twenty-five-year guarantee.

richard.b@powdertech.corby.co.uk
www.powdertechcorby.co.uk
Exteriors

Completing the Square with Nordic Royal

Brushed Nordic Royal copper alloy fins help define a major redevelopment to complete one of Edinburgh’s historic squares.

Comprising 9,300m² of ‘Grade A’ office space, 6,500m² of leisure/retail and a suite of luxury apartments, the redevelopment occupies most of the southern edge of St Andrew Square in the heart of Edinburgh’s ‘New Town’ World Heritage Site.

A series of metal and stone fins enables the complex to be very ‘open’ when viewed directly, taking advantage of the extraordinary long views and maximising daylight, whilst appearing solid in oblique pedestrian views. Various metals were appraised for the fins and a group of copper alloys from Aurubis identified for long-term quality and handsome weathering.

Finally, Nordic Royal was selected – a golden alloy of copper with aluminium and zinc, giving a rich golden through-colour that is very stable. It retains its golden colour and gradually loses some of its sheen as the oxide layer thickens with exposure to the atmosphere, resulting in a protective matt finish. In order to accelerate the process for this project, Aurubis treated the Nordic Royal to give a non-reflective, brushed surface that will then change in subtle ways over time.

Other Nordic Products from Aurubis include Nordic Standard ‘mill finish’ and Nordic Brown pre-oxidised copper, offering lighter or darker shades of brown determined by the thickness of the oxide layer. The extensive Nordic Blue, Nordic Green and new Nordic Turquoise ranges have been developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world. As well as the solid patina colours, ‘Living’ surfaces are available for each with other intensities of patina flecks revealing some of the dark oxidised background material.

Other alloys include Nordic Bronze, an alloy of copper and tin, initially with a similar colour to Nordic Standard, gradually changing to a stable, dark chocolate brown. Nordic Brass – which can also be supplied pre-weathered – is an alloy of copper and zinc with a distinctive golden yellow colour. When exposed to the atmosphere, the surface begins to darken within weeks and can change to a dark brown in around a year.

01875 812 144 finland.aurubis.com

Style, safety and durability

Neaco’s latest range of fireproof decking provides an ideal combination of style, safety and durability. Ideal for balconies, terraces and external walkways, Neaco’s decking is precision-engineered to provide exceptional slip resistance which can be further enhanced with an optional serrated surface. All systems are manufactured from aluminium which is A1 Fire Rated and fully compliant with Class 0 of Approved Document B ‘Fire Safety.’ Each option provides efficient drainage and ventilation.

sales@neaco.co.uk

Expansion into offsite housing

The McAvoy Group has announced its expansion into the residential sector with the launch of a new modular solution for all housing tenures – affordable homes, market sale, build-to-rent, student accommodation, and emergency housing. McAvoy has developed a steel-framed offsite housing solution for multi-storey apartments, detached, semi-detached and terraced family homes. An entire house can be assembled in a single day – and from foundations to occupation in just seven days. The McAvoy approach to housing will reduce programme times by at least 50 per cent compared to site-based construction.

info@mcavoygroup.com
With the increase in the number of new build properties coupled with a change in the style of building developments over recent years the rise of Juliet balconies has been apparent within the UK housing sector. Here at MACO we pride ourselves on not only producing the highest quality in premium hardware across the door and window spectrum but also our innovation across this sector.

Looking at the Juliet Balcony system, we were able to utilise our Part Q and PAS24 tested and approved Tilt & Turn window hardware to achieve a superior, slimmer Juliet balcony door. In using this proven hardware system, boasting our high security i.S. locking cam technology, results in a full perimeter locking system for both opening doors. In using tilt and turn fittings, the locking system is operated by internal handles, being smaller and slimmer than traditional Juliet balcony door handle sets the ascetics of the door set are further enhanced, however the benefits go much further.

As well as the security benefits, offered by our high security MULTI Matic range, another benefit are the slim sightlines of the sash and an increased glass area, flooding the room with more natural daylight. The use of concealed hinges enhance the smooth sightlines further on any Juliet Balcony door system, and enables them to be produced with a slimmer outer frame, whilst not sacrificing the weight of the door. Each sash can weigh up to 180Kg allowing for acoustic and triple glazed glass units, further enhancing the energy efficiency of the door sets. The MACO Juliet Balcony system is suitable for all material types, PVC, Aluminium and timber systems can all be accommodated.

As well as letting in more natural daylight, ventilation is further improved. One of the two doors can be tilted to give a safe and secure ventilation at the head of the door. This tilt function allows for an efficient ventilation of the room whilst restricting the opening through the doors, enabling safe ventilation of a room when it is unoccupied. As with traditional door sets both sashes are openable to 90 degrees, restric- tor arms integrated into the doors ensure that the sashes do not freely swing in the wind.

The advantage to the homeowner are, better energy efficiency, allowing for more natural daylight into the home as well giving a better views from the reduced profile lines.

If you would like more information or have any questions on the MACO Tilt & turn Juliet Balcony please E-mail or call us.

Follow us on Twitter @UKMACO and search MACO Door and Window Hardware on LinkedIn to keep up to date on all latest product innovations and news from us here at MACO.

01795 433900
Enquiry@macouk.net