

building construction design

www.buildingconstructiondesign.co.uk

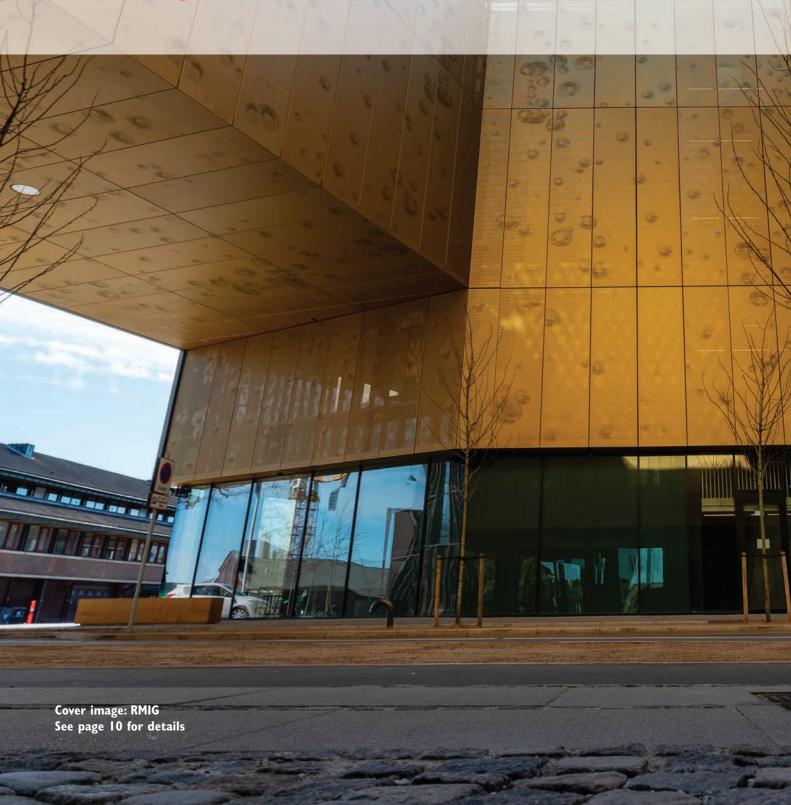
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Ei1000G SmartLINK® Gateway

The smarter way to check every tenant's safety. At any time.



- Actively monitors a property's RadioLINK+ or SmartLINK enabled alarms
- Minimises the requirement of property access causing less disruption
- Utilises the best available mobile connection for reliable connection
- Collates data and provides real-time notifications
- Accessible intelligence that can be actioned, reported on and documented
- Enables solution focused asset management













Repair principles and solutions for heritage buildings

hen we refer to heritage, we typically mean buildings or structures that require preservation because of their historical, architectural, cultural, aesthetic or ecological value. It is our duty to preserve these buildings for future generations.

The objective of preservation is to deliver a long-term remedial approach which ensures both aesthetics and structural integrity are maintained.

Determining how the building envelope operates creates a clear picture on the best method for remedial solution. How the exterior and interior interact with environments along with functional purposes must be understood to ensure there is no endangerment to the operation of the envelope.

Every building and structure's envelope is unique. Design considerations should incorporate a holistic approach that encompasses:

- The building/structure
- The defects
- Materials within the structure
- Does the structure have
- historical/architectural significance?
- Building Regulations
- Listing requirements
- Future maintenance requirements
- Occupants requirements

The Delta system has been specified in numerous buildings and structures in both grade 1 and 2 listed and of historic value throughout the United Kingdom due to its sympathetic advantages. Delta's 'air gap'





technology is favoured by English Heritage, The Society for Protection of Ancient Buildings (SPAB) and local authority conservation officers.

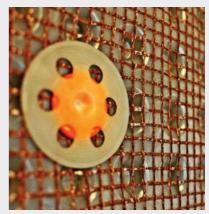
The Delta System itself does not need any aggressive preparation therefore it will not create damage to historical or heritage structures. The Delta System is a fully reversible system, which can easily be removed at any time, retaining the structure underneath intact.

A Delta System is not a replacement for lime render. The Delta System is a compromise, for when lime renders are inadequate in given situations, for example on below ground structures, on structures that have heavy salt contamination and on structures that cannot be effectively repaired and water/damp-proofed sympathetically and adequately from the outside (for example where there are architectural features that cannot be altered).

Delta along with our elite team of Registered Installers has the experience and knowledge to undertake waterproofing and damp proofing works for historical buildings.

Our Projects include

- Museums
- Royal Residencies
- Collages
- Grade 1 and 2 Listed Properties
- Vaulted Structures
- The London Underground
- Tunnels (such as the English Channel and Gotthard)
- Forts and Castles



- Country Estates
- Barn Conversions
- Observatories
- Broadcasting Institutions
- Parliamentary Buildings

Who we are

Delta Membrane Systems Limited provides a full range of waterproofing and damp proofing solutions for architects, specifiers, developers, contractors and homeowners on new, retrofit and refurbishment construction and in flood resilience. We also supply ground gas protection membranes protecting structures from harmful ground gases such as radon, carbon dioxide, methane and hydrocarbons.

Customer support

Our trained design consultants will work with you to achieve the best results for your project. If you want us to look after everything we can from design, supply & Installation, with this option you receive our insurance backed warranty. As manufacturers of quality systems, it is imperative to work with quality installation companies. At Delta we pride ourselves that we've built a team of highly qualified, reliable approved Registered Installers who operate throughout the UK, who specialise across our sector.

Our CSSW qualified technical team are always on hand to ensure your specifications are suitable for each project and delivered in a timely manner.

01992 523 523 www.deltamembranes.com







It's what's underneath that counts

A new brand identity and logo for Schöck

Schöck will have a new look from January 2021. Innovation has always been a key part of the company's philosophy and the new branding is intended to represent a more authoritative and contemporary look going into the new decade. The 'Schöck seal', represented by two interlocking brackets, combined with the use of upper-case type, symbolises even more strongly the promise of delivering reliable, consistent quality; at the same time maintaining strong relationships between the company, its customers and its employees. The strapline will continue to be: 'Dependable by design'.





Schöck's primary focus is on the development of structural components that make a substantial contribution to building physics – minimising thermal bridges, preventing impact noise in buildings and reinforcement technology solutions. Mike Bucher, CEO of Schöck AG comments: "Schöck has developed very successfully over the last 30 years. Our company is now more innovative and international than ever – and we want to present this to the outside world."

The most striking feature of the new design is the logo. The blue used in the logo is darker and becomes the leading brand colour and

the Schöck name is now presented in uppercase type. "The new Schöck seal stands for a clear promise. It is a symbol of quality and value, of reliability and security" explains Mike Bucher. "These are values that are at the core of our actions, even in times of digital transformation."

For a free copy of the Schöck Thermal Bridging Guide; the Schöck Specifiers Guide or to view the range of downloadable software, contact Schöck or visit the website.

01865 290 890 www.schoeck.com



Clean Air Series: UVC lighting that actively reduces the bacterial and viral charge

umanlumen, the lighting brand with a uniquely human-centric approach, introduces the Clean Air Series, a range of UVC Air Sterilisation Units, providing a safe, reliable and sustainable solution for a safe 'Return to Work' for many employers and employees.



The Clean Air Series is a range of efficient UVC lighting devices that actively reduce the bacterial and viral charge of the air in closed environments.

This truly innovative design can provide fast sterilisation for offices, classrooms, hotel rooms and healthcare environments.

The International Ultraviolet Association (IUVA) believes that UV disinfection technologies can play a role in a multiple barrier approach to reducing the transmission of the virus causing COVID-19 and SARS-CoV-2, based on current disinfection data and empirical evidence.

UVC Air Purification Unit

The powerful UVC radiation is totally isolated inside the Air Filtration System (AFS) as exposure of UV light, of any type, in high dosage to the naked eye will cause potential long-term health issues.

The system draws in contaminated air and removes all bacteria through a series of

integral filters and then delivers clean air back into the space. Each unit cleanses up to 3000 cubic square metres of open office space and is a simple plug and play system with no integration into the existing mechanical systems.

The clean air units work like an air purifier, but instead of filters it uses the UVC technology to eliminate the viruses. The fan located in the bottom of the fitting sucks in the air of the room and channels it through a series of UVC light canals that have the UVC lights. The UVC kills the viruses and the clean air is released in the room through a carbon filter.

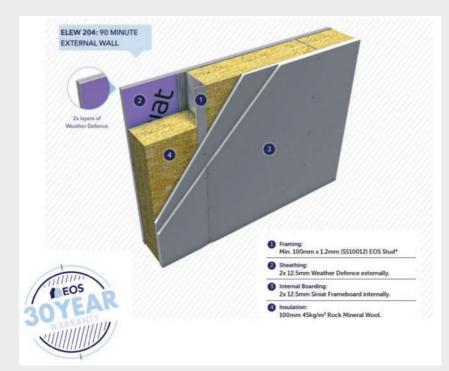
The carbon filter's main purpose is to clean the odours from the air, with an additional dust filter at the entrance of the fan, neither is essential to kill bacteria, this is the role of the UVC light.

0203 961 4500 www.human-lumen.com



Taking a safety-first system approach to construction







t is a fundamental of good design that residential buildings should be safe and that measures to enhance their environmental performance should not compromise this essential requirement. Here Steve Thompson, Managing Director for specialist steel framing manufacturer EOS, considers taking a safety-first system approach to specification.

Improving levels of occupant safety together with increasing the quality of the build, is under the microscope. Risk, quality, time, costs and performance — need to be managed and controlled. The performance of building materials is under an unprecedented spotlight. Regulations tend to deal with individual products and how they perform in laboratory tests. However, we consider material providers should have full-scale testing regimes that study the performance of products working together to see how they interact in 'real' circumstances, like under fire conditions or when exposed to wind and rain

We are committed to technical competence and as part of Etex, we have some of the best fire experts in the UK on our team. They work closely with certification bodies to jointly develop and design technical solutions.

A fragmented supply chain results in components being offered by a multitude of manufacturers, therefore warranties are complex, for very limited timescales or simply non-existent. This uncertainty also extends to the costs involved, the speed of build and the quality of the final outcome.

In response to these challenges, EOS has

developed a range of Thrubuild® light steel frame panelised systems, offsite manufactured to rigorous quality standards. Our Thrubuild® system range has been engineered for structural performance to the latest Eurocode and after completing rigorous fire, acoustic, weathering, airtightness and mechanical testing – are supported by a 30-year warranty.

Developed in collaboration with Etex brands

– EOS, Siniat, and Promat, these fast-track

solutions make use of the latest products, technical know-how and manufacturing excellence of the combined team. The range of Thrubuild® systems deliver an 'all in one' walling and flooring solutions providing crucial time and cost benefits. A system approach ensures the outcome is more predictable and repeatable, eradicating the risk of onsite variability.

01325 303030 www.eosframing.co.uk

THRUBUILD® TESTING REGIME

The Thrubuild® range has multiple applications and can be used for external or internal walls together with internal and separating floors. The detailed structural design is carried out by qualified engineers in accordance with loadings to EN 1991-1 and building regulations, calculated to EN 1993-1-3 and EN 1993-1-5 and further relevant parts of the Eurocodes for robustness, stability and resistance. All specified fire performance is the result of testing to BS EN 1365-1 for walls and BS EN 1365-2 for floors.

The Weather Defence used in the panelised system is a revolutionary new external sheathing board, faced with water repellent material for superior weather protection. Designed exclusively by Siniat, it is strong, highly moisture resistant and A1 non-combustible. Weather Defence can be left installed and exposed for up to 12 months on site before the final cladding needs to be completed.

WARRANTY

All Thrubuild® systems are supported by a 30-year warranty. Only tested configurations are available for selection.

ADDITIONAL EVIDENCE

More information is available on the EOS website: www.eosframing.co.uk The Thrubuild® System Specification Guide can be downloaded from the EOS Information Centre: www.eosframing.co.uk/information-centre

New Doors for a New Age

ith the world in turmoil, changing attitudes, social and economic upheaval everywhere, you could be forgiven for thinking that innovation within the interior doors market was likely to be on hold for a while. However at Vicaima the desire to move forward and push boundaries in design and performance has never lost momentum, even in the face of such challenges. And so, with the introduction of the 2021 Interior Door Selector; Vicaima bring new doors for a new age.

Their latest brochure contains over 100 pages of inspiration for professionals looking to transform homes, hotels and other private



and public spaces, fit for tomorrow. With its easy to navigate layout, ideas and solutions go hand in hand. Whether the criteria is for cost effective simplicity or high end performance and trend-setting designs, the 2021 Interior Door Selector (IDS) has something for everyone.

What's new in the 2021 IDS?

While some existing ranges have been developed, Vicaima have also taken the opportunity to introduce some striking new interior door products for 2021. Using their expertise and understanding of design trends and modern build requirements, this fresh approach allows specifiers the opportunity to expand their senses, with ideas that engage in both sight and touch; either capturing nature or taking it to another level. These new ranges include:

- Naturdor Stained Extra Vertical and horizontal semi-translucent stained veneers
- Heritage Oak Real Oak veneer with random grain and knots
- Dekordor 3D Vertical Embossed face in 2 new Oak designs



- Dekordor SD Touch Subtle textured foil in rich tones
- Visual Sensations Cross Directional Woodgrain in Forest and Alpine designs

Download your copy of the 2021 Interior Door Selector today or for further inspiration and new age ideas, visit the Vicaima website.

01793 532333 www.vicaima.com







Blend Range

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Delta Membranes introduce Koster BD Wetroom Tanking System

walk-in-shower or wet room can add a beautiful open space to any home, the level-access is popular for both its style and practicality. The benefits for homeowners include:

- Easy Access
- Flexible Design
- Attractive Modern Designs and perfect for creating a contemporary look
- Great for Maximising Space
- Ease to Clean
- A wet room can increase the value of your home

The key to the success of any wet room or walk-in shower is a complete and resistant waterproofing system.

Delta Membranes are proud to be exclusive distributors of the CE certified Koster BD Wetroom Tanking System in the United Kingdom.

It is important to install a trusted product from specialist waterproofing manufacturer to ensure all continually exposed areas are kept dry and protected. If done properly, your floor is better protected than it would be in a standard bathroom!

The Koster BD System has been developed to prevent water leakage from tiled areas, such as: Wet rooms, Shower Areas, Bathrooms and Kitchens. The Koster BD System comes in a convenient tanking kit everything you need in one box! The Koster BD System compromises of:

- BD50 Primer
- BD50 Compound
- Koster Super Fleece
- Outlet sleeve



- Fully Waterproof
- Breathable (water vapour permeable)
- Flexible
- CE Marked







- Easy to tile with all waterproof tile adhesives
- Simple to apply
- Silicone compatible
- Compatible with underfloor heating
- User friendly (VOC Free)
- In full compliance with all relevant British Standards and Building Regulations

The entire BD System is 100 per cent waterproof! Simple and safe to work with – tested by those in the waterproofing industry.

When you purchase a Koster product from Delta, you are also purchasing a waterproofing expert.

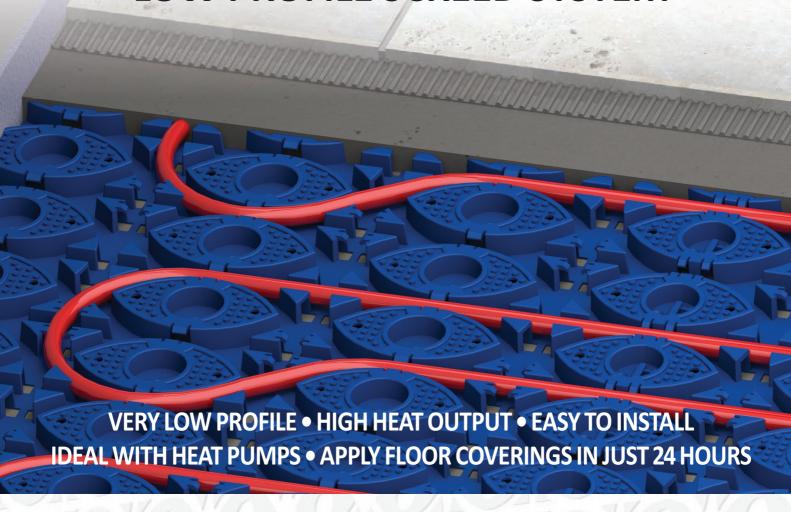
Let Delta's Technical Team become your Technical Team – We thrive on helping our customers find more efficient and simplified solutions. Contact Delta today.

01992 523 523 info@deltamembranes.com

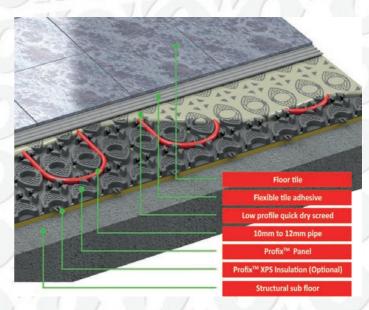




LOW PROFILE SCREED SYSTEM



The Profix™ Panel is a revolutionary new pipe retention panel designed for use with warm water underfloor heating systems incorporating pipe from 10mm to 12mm diameter. When combined with a quick drying self-levelling screed compound the system provides a very low profile (as thin as 15mm) high heat output floor heating solution suitable for both new build and retrofit projects. The system can deliver high heat outputs even at low water temperatures making it an ideal solution for use with heat pumps.







Carlsberg Group Headquarters

Office building, Copenhagen, Denmark Architects: C.F. Møller Architects

"bubbly" facade is part of a major development project.

A massive transformation of what is (probably) the most famous brewery site in the world, has resulted in a stunning and vibrant new city district in the heart of Copenhagen. With a combination of both modern and historic architecture, the extraordinary Carlsberg City District will provide both office and residential buildings, as well as cafes, shops, hotels and schools.

The Carlsberg brand is synonymous with thirst-quenching drinks, so it is fitting that the facade design for the entrance of their new headquarters depicts refreshing golden bubbles, leaving you to imagine your favourite Carlsberg tipple. The facade was manufactured and supplied by RMIG using RMIG ImagePerf to create the pattern of the bubbles.

01925 839 600 www.rmig.com





TECHNICAL CHARACTERISTICS Raw material: Aluminium

Finishing operation: Bending

Surface treatment: Anodising

Pattern: RMIG ImagePerf

Thickness: 3.0 mm

D1(AC-Gold)20 MY



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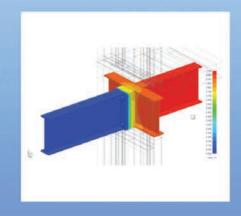
WELCOME TO ARMATHERM™ STRUCTURAL THERMAL BRIDGING SOLUTIONS



Armatherm™ is one of the leading suppliers of structural thermal break materials for the construction industry.

Our goal is to provide architects, structural engineers and building design professionals with effective solutions to prevent thermal bridging.

Armatherm™ structural thermal break materials minimise heat loss at balcony, canopy, parapet, masonry shelf angle and cladding connections.



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WWW.ARMATHERM.CO.UK/RESOURCES/CAD-BIM-FILES

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 required by Part B of the Building Regulations
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Soprema UK adds to Roofing Range with Alsan 601 Wet-on-wet Membrane

oprema UK, the specialist in roofing, waterproofing and insulation solutions, has added to its wide-ranging roofing systems with the launch of Alsan 601; a wet-on-wet polyurethane cold-applied liquid roofing system.

Developed to enhance the choice and variety available to specifiers and contractors from the trusted Soprema brand, Alsan 601 builds on the versatility of the company's roofing range, which includes PMMA liquidapplied systems, bituminous membranes, hot melt and single ply. The new system will be available through Soprema's UK-wide distributor network, enabling contractors to benefit from local supply chains, while specifiers can benefit from Soprema's usual high levels of technical support and advice.

With a BBA-accredited service life of at least 25 years, Alsan 601 will carry a 20-year Soprema warranty and cures to form a durable, seamless, waterproof roof covering that eliminates any risk of water tracking



below the surface

The Alsan 601 system has been developed with ease, speed and convenience of installation in mind, with smaller 10 litre tins available for minor works, along with standard 15 and 25 litre sizes. The liquid membrane provides flexibility of cure rate to suit installation conditions, with use of an

accelerator reducing cure time to 2-4 hours. The accelerator also allows the system to be installed at temperatures as low as 00C, making it ideal for projects delivered during the winter months.

Alsan 601's viscosity can also be adjusted in response to application requirements, with an additive available within the range to enable installation on vertical surfaces and upstands.

Available in a choice of two shades of grey, the liquid membrane is used in combination with a glass fibre reinforcement fleece, which breaks down as a homogenous component of the system during installation for a smooth roof finish.

Like all Soprema roofing systems, Alsan 601 will be supported with a full installation training and approved contractor programme, along with technical support and warranties.

0330 058 0668 www.soprema.co.uk/en





Keylite Roof Windows take Margate housing development to new heights

Over 60 Keylite Roof Windows have been installed to new homes and flats in the Brooke Close housing development in Margate, offering clean and modern aesthetics as well as peace of mind for the building contractor, PCR Projects Ltd. The Roman Fields development situated in the village of Garlinge beside Brooke Avenue in Margate comprises 43 homes that come with integrated kitchen appliances, a ten year warranty, built in wardrobes and parking. Designed by architectural firm Urban Surveying and Design Ltd and built by well-respected local contractors PCR Projects, the development required 60 Keylite Polar White PVC Centre Pivot, Thermal Glazing Roof Windows to be installed in each of the houses, and two Keylite White Painted Centre Pivot, Thermal Glazing Roof Windows, with Smoke Ventilation Kits in each of the block of flats. Scott Ridgen, Managing Director at Urban Surveying and Design Ltd said: "We are very much a design led practice and so the aesthetics of Keylite Roof Windows really appealed to us, especially knowing how they would sit on the roof lines and create a point of differentiation for this particular project". "We've actually gone ahead and specified more Keylite Roof Windows for another project we are currently working on, so it's safe to say we are very impressed."

info@keyliteuk.com

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