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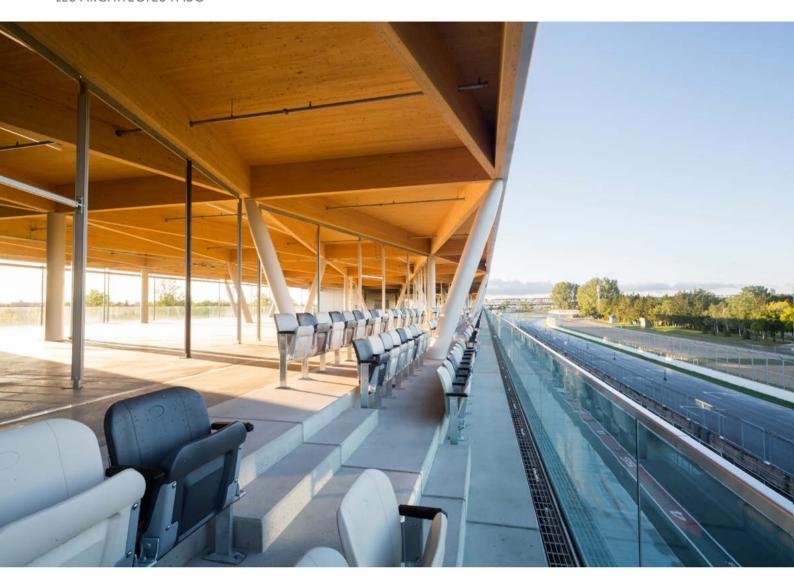
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HAVE YOU GOT A PROJECT YOU ARE PROUD OF?

If you've recently finished a project, conversion or renovation, why not submit it to our Editor in Chief for a chance to be featured in our next issue! Email antony@archetech-media.co.uk with details of your latest project.

Visit: www.archetech.org.uk/subscribe



CANADA F1 GRAND PRIX - NEW PADDOCK

As part of a renewal agreement for the Formula 1 Canadian Grand Prix, the city of Montreal had to replace the existing temporary structures with a larger permanent building that would more adequately meet the needs of the event. The new paddock includes garages for the teams, offices for the International automobile Federation (FIA) and the promoter, a lounge area for 5,000 people and a Multimedia Center for journalists and broadcasters. All furniture and equipment are shipped from abroad and installed for the duration of the event.

To facilitate the completion of the \$50 million project in the 10 free months between the two Grand Prix editions, the building was designed as an assembly of prefabricated parts including concrete panels, steel beams and columns, CLT wooden beams and panels, curtain walls and removable partitions. It can also be easily disassembled and recycled materials in case of Grand Prix termination.

Unlike other international grands Prix, the lounge areas have no exterior walls and are not air-conditioned, the interior spaces are minimally finished and the building must make responsible use of the public funds invested while equipping Montreal with equipment that reflects our identity and values for an event seen by more than 300 million people around the world.

CONCEPT

The building echoes the innovative structures that marked Quebec's imagination when the 1967 World's Fair was held on the site of Île Notre-Dame. The Terre des Hommes logo using the Y to represent men with outstretched hands remains an indelible symbol of this summer that marked the advent of modernity here. The wooden structure proposed for the roof is based geometrically on this memory and reflects our desire to move away from the images and values usually associated with motor racing and more specifically with Formula 1.

66

The building echoes the innovative structures that marked Quebec's imagination when the 1967 World's Fair was held on the site of Île Notre-Dame



The advent of new owners and executives at the head of the circuit has made possible the acceptance of this proposal, which corresponds to their desire to move away from the ostentatious globalized luxury in order to highlight the cultural and geographical specificity of each stage of the circuit and adapt it to emerging values.

PROGRAM

The new Paddocks will accommodate up to 13 stables, each of which will have two front access for single-seaters, drivers and technical teams, as well as a service access located at the rear of the building for equipment or for quick access to the redeveloped hospitality area.

Designed without a permanent division, the garage space is modular according to the needs of the teams at each edition of the

Canadian Grand Prix: temporary partitions will be used to create the desired divisions and thus suit the technical needs of this constantly evolving sport.

The building presents a completely new configuration of the space for sports commentators and representatives of the FIA and FOWC: the distribution has been redesigned to meet the need for stakeholder interactions with the action taking place on the circuit. Unlike the Old control tower which was made at height to offer good visibility on the track, the new tower is arranged horizontally on 2 floors right in the building, as new race control technologies now require less direct visibility.

A media space is integrated into the building rather than being located in a temporary marquee, in order to provide quality services to journalistic representatives, namely modular lighting, a suitable ventilation system and electrical and telecommunications connection boxes including optical fiber.

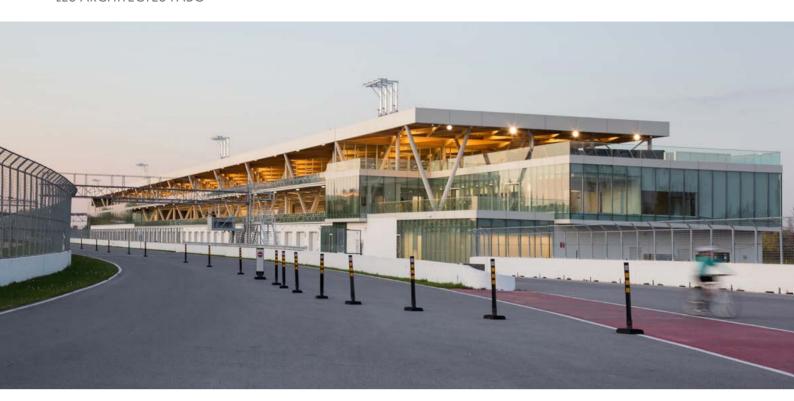
This media space is also a rental space made available to Montrealers for events outside the Grand Prix period in all seasons.

The building has been designed to multiply the views on the race track, but also on the entire environment of the park that surrounds it, with the development of several terraces on the 2nd and 3rd floors.

The new building being higher presents a 360-degree panorama to the spectators. On one side, a close-up view of Jean-Doré Beach, the Casino de Montréal, former Pavilion of France during Expo 67, as well as the former Pavilion of Quebec that is adjacent to it. In the distance, the city of Montreal, Mount Royal and its cross are visible.

On the other side, you can see at first glance the Olympic pool where groups of rowing, canoeing and dragon boats train. Behind, a narrow passage of the St. Lawrence River crossed by freight boats, then the South Shore of Montreal.







UNIVERSAL ACCESSIBILITY

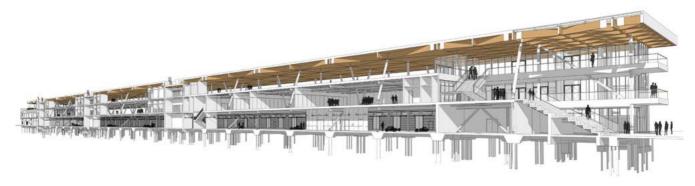
Accessibility has been completely redesigned in the new building: the entire ground floor is on the same level as the ground and the floors are accessible via a panoramic glass elevator located at the east entrance. Bleachers and bathrooms are also provided to ensure universal accessibility and ease of travel.

SUSTAINABLE DEVELOPMENT

The structure of the roof of 1425 m3 is made of wood, a durable and renewable material. Since, during its growth, wood captures CO2 from the atmosphere and sequesters it in its fiber, this volume of wood corresponds to the sequestration of more than 1,000 tons of CO2. Wood is thus considered carbonegative, which means that not only does the use of wood in construction generate low carbon emissions, but also helps to remove additional carbon dioxide from the atmosphere.

The waterproofing of the roof is carried out with an elastomeric coating covered with white mineral granules in order to limit the heat island effect and the temperature rise for the spectators.

The solar photovoltaic panels on the terrace total 64 m2 and should store enough solar energy in one year to compensate for the energy expenditure required for the complete building at a Grand Prix.



The installed system will provide an average of 87,600 kw/hre per year and the estimated energy consumption during the Formula 1 event is 88,940 kw/hre.

LOCAL PRODUCTION

The wood used for the beams, in the form of glued and cross-laminated (CLT), as well as for the decking, in the form of cross-laminated, comes from northern Quebec and values species and small pieces of wood to optimize the fiber of all the trees during the cutting. The precast concrete parts come from a Quebec company, as are the curtain walls and the steel structure. The division into several separate batches of the structure (concrete, steel and Wood) allowed the simultaneous production in the factory of colossal quantities of material as well as their erection in a very limited period of time and despite a harsh winter.

AWARDS AND RECOGNITIONS

Award of excellence, Canadian Architect - 2018 Mention en innovation de l'OAQ - 2020 Grand Prix d'excellence de l'OAQ - 2020

TECHNICAL SHEET

Project name: F1 Canadian Grand Prix-New Paddock Location: Circuit Gilles-Villeneuve, Montreal, QC

Commissioning date: May 2019 Client: Société du Parc Jean Drapeau

Architect: architects FABG-Éric Gauthier (project director), Marc Paradis (project manager), Nicolas Moussa (project manager)

General contractor: GEYSER Group

Ing. Structure: CIMA+

Photo credits: Steve Montpetit

www.parcjeandrapeau.com www.arch-fabg.com





SCHÖCK PRODUCT SOLUTION IS JUST DANDY AT REGENCY HEIGHTS

The Old Oak and Park Royal areas of West London are undergoing a massive transformation. A £26 billion masterplan to create a new district is taking shape in this part of London and it will see around 25,000 new homes built over the next 20 years. An already advanced scheme is the First Central development, part of which is the imposing Regency Heights. Built on the former site of the Sir Giles Gilbert Scott designed Guinness Brewery, it is a residential-led, mixed use scheme providing 807 residential units in three courtyard blocks wth a public plaza. The buildings range from five to twenty-seven storeys and the design is reminiscent of the Brewery's early modern industrial brick architecture. The southern block is anchored by a brick-clad residential tower, which when complete, will create a new 90m high local landmark. The majority of apartments are fitted with steel balconies. So it is vital that with the design detailing any risk of thermal bridging is minimised and a key consideration throughout is the use of effective structural thermal breaks.

CONSEQUENCES OF THERMAL BRIDGING

Local heat loss is a major factor, resulting in more energy being required to maintain the internal temperature of the building. Also, low internal surface temperatures in the area of the thermal bridge can cause condensation. This can result in structural integrity problems with absorbent materials, such as insulation products or plasterboard. Mould growth is also a possible risk, which in a residential situation can cause asthma and allergies. The proven solution to any such problems is the Schöck Isokorb structural thermal break. In the case of Regency Heights, over 2500 units of the Isokorb T type SK are installed. This is a load-bearing thermal insulation element with an 80mm insulation thickness for connecting cantilevered steel balconies to a reinforced concrete slab. The innovative fastening of the support beams makes any steel structure durable, safe and visually attractive, permits a high degree of prefabrication and minimises installation time on site. The T type SK transfers positive or negative moments and shear forces. And since it can bear heavy loads, it is ideal for resolving the technical and structural issues of designing modern balconies.

GUARANTEED PERFORMANCE

The Schöck Isokorb T type SK units guarantee totally verifiable performance standards, meet full compliance with all relevant UK building regulations and offer BBA Certification and LABC Registration. When incorporated into residential buildings, the required fRsi value, the temperature factor used to to indicate condensation risk (that must be equal to or greater than 0.75) is always comfortably met. The range complies with the Government Standard Assessment Procedure, SAP 2012, concerning CO2 emissions from buildings and respectively heat losses through non-repeating thermal bridges. The lambda values of the Isokorb also enables energy loss to be reduced by as much as 84% to 91%.





The Isokorb T type SK



For full information on the Isokorb T type SK contact Schöck on 01865 290 890 or visit the product section of the website at www.schoeck.com

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When planning an outdoor rendering project it's important to remember to choose beads made of stainless steel or PVCu. Building requirements outlined by NHBC and LABC, only advocate the use of austenitic stainless steel or PVCu beads in all external rendering applications, anywhere in the UK. Galvanised steel beads are no longer accepted for external rendering in any situation.

Stainless steel beads are specifically designed for cement based renders, and our range of stainless steel angle beads, bellcast beads, stop beads and movement beads, and the PVCu plastic alternatives, have been engineered to provide reinforcement and resist impact damage. Our range of beads makes bellcasts, corners, stops and abutments all easier to form, and they can be cut to size as required.



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The MVB-S Movement Bead consists of two lengths of Stop Bead linked with a white PVC extrusion.

For rendering and plastering made simple, download the Simpson Strong-Tie 2020 catalogue at www.strongtie.co.uk/resources which is packed with handy tips and installation guidance... and make sure you stay away from Rusty!



12-PORT SOLUTION TO DRAINAGE CHALLENGES

Polypipe Building Services, the UK's leading manufacturer and specialist in building services solutions, has added a new manifold to its Terrain drainage range designed to offer a solution to drainage challenges in large apartment buildings.



Polypipe's new 12-port, low-level, manifold is also an efficient and effective solution for projects where each floor of a building requires multiple bathroom facilities, such as student halls of residence and hotels - with the capability to manage a whole floor's volume of drainage.

The manifold has four top-entry and eight side-entry bosses - all supplied closed. They can be drilled out with a 48mm hole saw allowing 12 entries through the same manifold.

These bosses can all be either electrofusion or butt welded, and the internal baffle allows use of any connection and prevents any crossflow.

The manifold is manufactured in HDPE (to BS EN 1519) and can be used as part of an offsite pre-fabricated system with the Polypipe Advantage Service.

For more solutions see www.polypipe.com/polypipeadvantage.



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The Ortal range can be viewed at our showrooms in Belper.





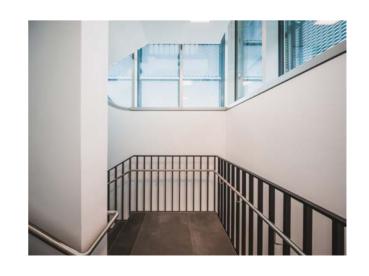
WHAT WILL SMART CITIES LOOK LIKE IN THE FUTURE?

GAME-CHANGING, INTELLIGENT FAÇADE FOR 3DELUXE'S NEW BUILDING

In recent years much has been said about smart cities and smart buildings but people rarely understand what the label can actually mean in real terms. Together with the client FC Ingenieure in Karlsruhe and the technology company Merck, the architects at 3deluxe have succeeded in coming up with an attractive building ensemble with an interesting, innovative glass façade which adds a fascinating new facet to intelligent architecture.

THE FC CAMPUS' "SMARTPHONE FAÇADE" IS GLOBALLY UNIQUE

A building is intelligent if it does not just stand there but can respond not only to the requirements of its users but also to external factors. At best, it can make people more comfortable while simultaneously optimizing energy efficiency.



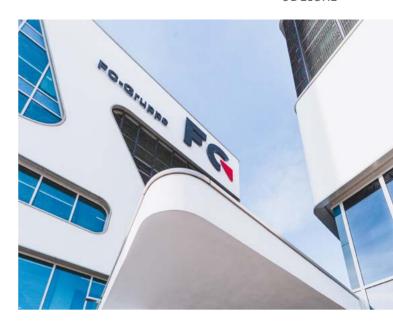
A cube offered the most economical ratio between outside surface and volume, thus representing the most efficient building shape from a sustainability viewpoint.

The FC Campus building's intelligent architectural element is a sheet of foil, something normally used in Apple smartphones, integrated into its glass structure. In the context of a building façade, this is a global first. Interactive liquid crystals integrated into the foil allow for a sensor-controlled reduction in light and heat transfer to the building without any negative impact on transparency. The building requires hardly any cooling, even at the height of summer despite the fact that it features large-scale glazing and does not possess any structural shading elements.

The trend in recent years towards cutting the expanses of windows in new buildings in order to save energy conflicts with people's desire for bright, cheerful rooms flooded with light – and does not, therefore, represent real progress. Extensive glazing and the corresponding effect this has on the way people relate to their environment is an emotionally important aspect of well-being and thus always a significant factor in 3deluxe's building concepts. Accordingly, intelligent glass is not only durable and efficient but also helpful in the innovative design of people-friendly architecture and one of the many technological innovations that will be necessary for planning smart cities in the future.

CONSISTENT CORPORATE DESIGN FOR FUTURE-ORIENTED ENGINEERING COMPANY

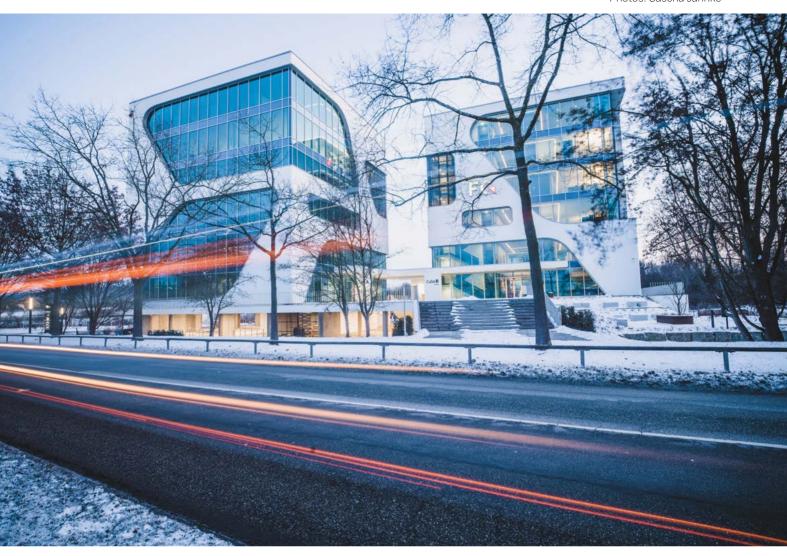
The developer and user of this building ensemble, which is very prominently situated in close proximity to one of Germany's busiest autobahns, is the Karlsruhe-based FC Gruppe. This engineering company, which has a payroll of more than 300, works both for Porsche and on innovative, future-oriented hospital concepts.







3DELUXE Photos: Sascha Jahnke



In light of this, the intention in 3deluxe's building design was to combine innovation, sustainability, efficiency, and a meaningful arrangement, so as to create a distinctive composition.

A cube offered the most economical ratio between outside surface and volume, thus representing the most efficient building shape from a sustainability viewpoint. The FC Group's two identical cubes are twisted in opposite directions and stand on a large floating podium under which an open underground parking lot is located. Because of the striking, organically-shaped, story-spanning windows, the two individual cubes merge, depending on perspective, to produce a sculptural overall effect with a varying, charming appearance.

The generous glazing means that these modern, open-plan office premises are well lit from all sides and offer pleasant views from all their workstations. Along with the well-thought-through approach to the diagonals and radii in the façade, it is the building's pared-back details that make it so compelling and unique.

THE BUILDING'S INNER WORKINGS: SMART, DIGITAL, CONVENIENT

The office stories have a generous, open feel to them, the concept used largely rejects the idea of internal walls. The structure of the building invites a cooperative, non-hierarchical approach to work. Communicative shared spaces and areas for focused

work unobtrusively alternate with one another and the offices are fitted out with furniture that is appropriate to its urban context. The concept of a paperless office allows for light, transparent furnishings and views of what is happening outside that are largely unimpeded. Thanks to an app specially designed by the developers, staff can control pretty well everything in the building. They can select their lunches from the in-house food bar or allow themselves to be guided through the surrounding park areas in their breaks.

To avoid plastic, water is provided from the well on the grounds, while the carpet is made of recycled fishing nets and plastic bottles. Modern heated and chilled ceilings ensure a pleasant ambient temperature in the offices. Cooling and heating are provided from a geothermal source that uses 24 probes that run to a depth of 130 meters and electricity is generated by a PV system on the roof, meaning that the building requires zero outside energy.

NATURE AND THE PROTECTION OF ENDANGERED SPECIES BETWEEN A COMMERCIAL PARK AND THE AUTOBAHN

The FC Campus building is situated in a semi-natural environment, between an industrial park, the autobahn feeder road, and a small tree and meadow biotope with a little stream, an environment very much deserving of protection.

The architecture has adopted a circumspect approach to this residual natural environment. In order to avoid birds crashing into the generous glazing which stretches around corners the architect in cooperation with the Swiss ornithological station, Sempach came up with the kind of delicate, semitransparent pattern printed onto the glazing of which birds would be aware but which would not, at the same time, spoil the view.

The outside lighting was designed to take the form of insect-friendly LED lights with a low beam height and focused lighting on the surfaces, without light emission into the surroundings. The decision was taken not to install scenic lighting on the vegetation or the building shell. Throughout the entire site and in the open underground parking lot underneath the building's floating base plate sealed areas have been reduced to a minimum, which means the roadways and the footpaths.

TECHNICAL SHEET

Title of project: FC – Campus Verwaltungsgebäude

Discipline: Corporate Architecture Client: FC-Verwaltung GmbH

Location: Am Storrenacker 8, 76139 Karlsruhe

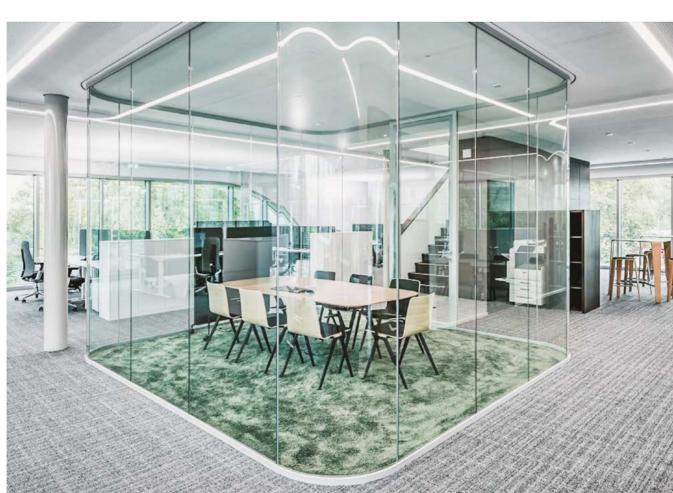
Start of planning: April 2015

Construction period March 2018 until May 2020

Completion: September 2020

'Kaffeepartner', and the complete design of 'Noor Island' in Sharjah.

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from high scratch, heat, stain, water and UV resistance, the surface is ideal for all areas of the kitchen. Offering versatility in design, the surfaces can be blended into integrated sinks as well as waterfall island tops, demonstrating the flexibility and application possibilities of the natural stone.

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For further information visit www.lundhsrealstone.com/uk

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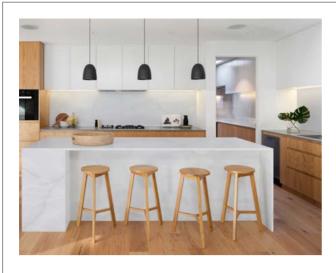
A stylish, modern shower enclosure designed to suit any bathroom space, Fast 2000 features aluminium profiles lock that together easily to create a frame, whilst easy release rollers



can be fixed to slider door profiles without any tools. Handles are attached using pre-supplied screws and fixings for the glass panels slot neatly and securely in place. For a neat finish all fixings and concealed and there is 20-40mm of adjustment for ease of fitting.

Following requests from customers the option of bi-fold doors has now been introduced to the popular range. Bi-fold doors in the Fast 2000 range are available for enclosures from 700 - 1200mm and are ideal in space limited bathrooms. This addition increases the flexibility of this already versatile range even further.

For further information visit www.saniflo.co.uk





THE NEW MARBLE-EFFECT SURFACE FROM STARON

Wispy and graceful, Staron's latest marble-effect premium solid surface brings a touch of delicate detail into interiors.

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Providing homeowners, designers and specifers with a surface

perfect for modern living, Staron's unique qualities ensure its surfaces not only look beautiful, but are a hygienic and practical choice too. Mould and bacteria supressing, non-porous and totally seamless in fit, Staron is easy to clean thanks to its joinfree and resilient structure. With anti-scratch and heat resistant qualities, Staron is a multi-purpose surface, ideal for use in kitchens, bathrooms, offices, shop displays and it can even be used to clad walls.

www.staron-surfaces.co.uk

DERAlam

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Over the years, hardly any other material has proven its worth in interior design to the extent in which the laminate has done. Looks, feel and function are combined to get the interplay of elements into all-embracing spatial concepts in a way that couldnt be more natural

Above all, it has always been the genuinemetal coated laminates and magnetic boards that are associated with the HOMAPAL name. Yet behind the scenes in Herzberg, many more variations of this modern material are created and produced.

It provides architects, carpenters and joiners in furniture-making and interior designs with the basis for producing the last word in creative design - in doctors' surgeries, bars, hotels, clubs and restaurants, on cruise ships and in shop fitting.

www.deralam.co.uk

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HUB PROGRAMME DELIVERS MORE THAN £2BN OF COMMUNITY INFRASTRUCTURE

NEW REPORT HIGHLIGHTS SUCCESS OF COMMUNITY INFRASTRUCTURE PROGRAMME

The success of Scotland's hub Programme has been recognised in a recent independent evaluation report, confirming that since its establishment ten years ago, it has delivered in excess of $\pounds 2.2bn$ investment in around 200 projects in Scotland.

EKOS Ltd, a leading independent economic and social research practice, found that the hub Programme has performed well against its original aims and objectives. It has delivered substantial social impacts and community benefits and there is strong support from across all stakeholder groups.

Particularly noteworthy is the role the Programme has had in encouraging the adoption of community benefit clauses in

construction contracts for hub, and subsequently non-hub projects.

The hub Programme is a Scotland-wide partnership model that brings public and private sector bodies together to deliver community infrastructure in five regional areas through their respective hubCos (hub companies) – the South East, North, East Central, West and South West. Infrastructure experts, Scottish Futures Trust (SFT), conceived, developed and manages the Programme with a central programme management office and local programme directors providing oversight and support to the operational hub Programme.

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To have maintained such solid support after ten years is a major achievement in itself, demonstrating that stakeholders continue to have high confidence in the hub Programme's future.

The Programme has created clear and quantifiable impacts for the public and private sector partners who report that working on hub projects has helped to improve their skills and knowledge – particularly for the public sector as a more 'intelligent client' and giving the private sector a better understanding of the market requirements for community infrastructure projects. These skills have been transferred into non-hub public sector project activity, further expanding the beneficial impacts delivered by hub on projects delivered to date and in construction.

One of the key benefits that the public sector identified is the high level of certainty that hub projects give, both in cost and timescale for delivery.

There is a further £1.2bn of investment in the pipeline, either at the project development stage or under construction supporting a further 8,500 construction-related jobs a year. The independent assessment of the hub Programme has shown it is well placed to contribute towards Scottish Government's infrastructure priorities of net zero emissions, resilient and sustainable places and inclusive economic growth across public sector community infrastructure investment.

Speaking at the launch of the report, David MacDonald, National hub Programme director at SFT, said:

"The level of construction activity delivered through the hub Programme has exceeded £2bn with public services now being



delivered from high-quality buildings underpinned by a strong track-record of quantifiable and qualitative benefits being achieved."

He added: "To have maintained such solid support after ten years is a major achievement in itself, demonstrating that stakeholders continue to have high confidence in the hub Programme's future. Reflecting the clear and consistent feedback from stakeholders, the core recommendation of the review is that hub should continue to operate as a national programme, delivering community infrastructure projects through the five hubCos. There is also a desire to see it evolve and take a pro-active role to further advance Scottish Government's three principal policy objectives of net zero carbon, place and inclusive economic growth."



THE HUB PROGRAMME



Finance Secretary Kate Forbes said: "I welcome the findings of this evaluation report and recognise the valuable role that the hub Programme played in delivering much needed new schools, new NHS facilities and other key infrastructure.

"The hub Programme has achieved a great deal in the past ten years through forming effective partnerships between the public and private sectors. I look forward to that collaborative approach

continuing, to deliver the community infrastructure we need while supporting jobs, apprenticeships and Scottish SMEs."

Other positive benefits of the hub Programme that the report has identified include:

- Projects deliver a better end-user experience
- Higher end-user staff satisfaction/retention
- Better integrated community infrastructure activity and service outcomes
- Improved cost and time certainty achieved for public sector (procurement, delivery and operational)
- Value for money achieved in community infrastructure project activity
- Environmental gain a better understanding of the need to reduce the carbon footprint
- Productivity gain an uplift from people with improved skills plus enhanced employability (construction community benefits)
- Public sector gain a better reputation in market for efficient procurement
- Private sector gain a better understanding of market requirements and ability to resource accordingly for anticipated demand.

www.scottishfuturestrust.org.uk



WHY USE A BREATHABLE PAINT?

Paint breathability measures how air and water vapour flows through its surface. Older properties were built using materials that were designed to promote this airflow.

Using paint with a high level of breathability, with breathable building materials, avoids moisture being 'trapped' beneath the surface of the paint. Trapped moisture can lead to damp walls, causing the paint to bubble, peel and eventually blow completely. It can also contribute to a harmful living environment.

Earthborn Claypaint is a highly breathable paint, perfect for walls and ceilings where breathability is key. It's thick and creamy with a high clay content, offering excellent coverage, no nasty paint smells and a number of eco properties.

There are two methods used to objectively measure breathability - the SD value and the MVTR value. Using either method, Claypaint is proven to have extremely high levels of breathability. More information on this topic can be found in the blog on the Earthborn website.

Ease of use, high covering power and lack of harmful emissions make Claypaint an ideal option to optimise breathability for any building.

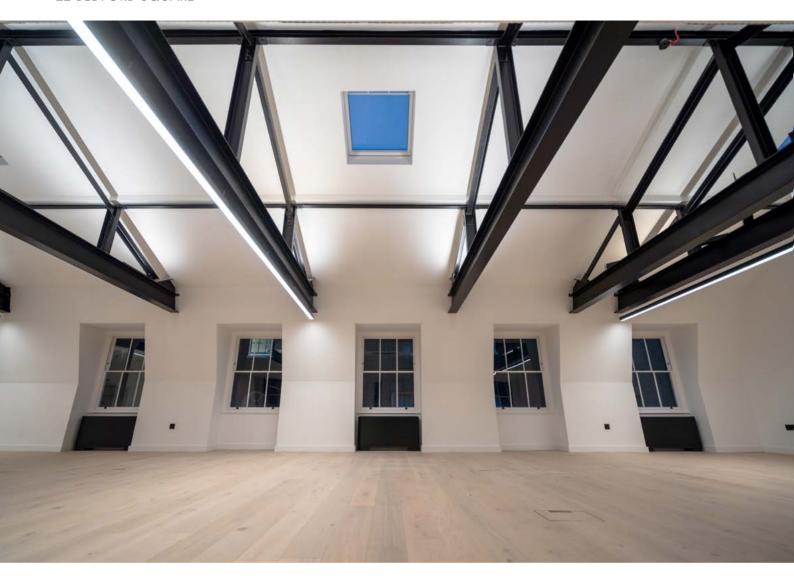


Earthborn's Classic range of 72 shades

Earthborn's new colour card showing all 72 colours in the classic range is now available and 100% recyclable, including the adhesive and the paint chips that use real Claypaint.

www.earthbornpaints.co.uk





A FLEXIBLE, AGILE WORKSPACE

EDGE CREATES A CONTEMPORARY, FLEXIBLE AND HEALTHY WORKPLACE IN A LISTED GRADE 1 BUILDING AT 22 BEDFORD SQUARE, LONDON

Working together with The Bedford Estates, Edge has transformed 22 Bedford Square, a Grade 1 Georgian townhouse and an adjoining modern four storey coach house, into a high quality mix of period and modern office space. With the completion of the project, there is now 12,600 sq feet of flexible, agile workspace with an emphasis on natural light, access to outside space and interior focused on promoting wellbeing.

Located in the Bloomsbury Conservation Area of London, one of the best preserved squares in London, it was very important to the planners at Camden Council that proposed alterations would not compromise the architectural significance and setting of the Grade 1 building. Bedford Square was originally laid out and constructed between 1775 and 1780. In creating an optimum contemporary working environment, Edge has been careful to ensure that any alterations would not detract from the historic fabric.



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We wanted to create an inspiring office environment while respecting and preserving the aspects of the buildings that are of architectural and historic significance

Racheal Cadey, Principal - Board Director and Founder, Edge, says, "Our design scheme has been 'Georgian contemporary', classically and sympathetically restoring the Georgian building with simple and contemporary insertions. We wanted to create an inspiring office environment while respecting and preserving the aspects of the buildings that are of architectural and historic significance."

22 Bedford Square, located within the left-hand part of the northern side of the square, had been in office use for several decades and had been expanded with a 1980s "Neo-Georgian" ancillary building to the rear of 22 & 23 Bedford Square, in the location of the original mews houses with a narrow link structure connecting this to the back of the original townhouse.

A key need was to open up the link between the front and rear structures to improve the connectedness of the office spaces. It was also considered important to "reconnect" with the rear garden courtyard.

Edge created a new four storey link building, connecting the townhouse and the rear building, re-designated 'the coach house'. This contemporary, glazed architectural intervention complements the Georgian building in an empathetic way. The internal refurbishment of the existing grand rooms was undertaken using established conservation methods and the innovative and creative use of lighting and detail provides for an exciting blend of traditional classicism with modern bespoke interpretations.

The scheme has included extending the existing mansard roof of the 1980's coach house to modernise the top floor, creating additional office floorspace, exposing the internal roof structure to give a fantastic sense of height and space. The design of the link maximises natural light and provides a new break out balcony space and enhanced access to the garden courtyard.

Breaking up of the link façade, to avoid imposition of a 'flat' wall and accord with a concept of 'stepping' was achieved by stacking differently articulated layers for the appearance of overlapping boxes, which required careful detailing of the cladding 'steps' that avoided carrying in floor level support structure, and consequently deep transoms at each floor that would have undermined the effort.

Wellness features include touch free entrances, upgraded insulation and air handling, and the use of Airlite paint to improve the air quality and reduce energy consumption.

It was challenging to deliver the project during lockdown and with Covid restrictions, but this was done successfully. Having only been on site for three months when the first lockdown came into force, the construction team introduced new safe systems of working in place to keep the project on track for the target date.





Project

Client: The Bedford Estate Architect: Edge

Building Contractor: Gaysha Ltd.

www.bedfordestates.com | www.edgegb.com



www.atouchofbrass.co.uk

210 Fulham Road, Chelsea London SW10 9PJ

THE PERFECT TOUCH

Touch Ironmongery is one of London's leading Architectural Ironmongers Established in October 1982

riginally called "A Touch of Brass", the firm changed their name in 2003 in reaction to slowly advancing market changes in architectural ironmongery which is no longer supplied solely in brass, and to also reflect the broader range of product and finishes that they sell.

In fact today, Touch can supply a wide range of finishes including Brass, Satin Brass, Polished Chrome, Polished Nickel, Satin Nickel, Copper, Bronze – solid and plated, BMA, Antique Brass, Black, Pewter, Ceramic, Leather, Stainless Steel, Satin Stainless Steel, Gun Metal, and the list keeps growing. Whatever finish you require, Touch can help you get the right look.

Touch occupy their recently refurbished showroom at 210 Fulham Road, Chelsea, where they display a vast range of their 5,000 products. With a customer base including Interior Designers, Builders and Individuals who are interested in the quality end of the Ironmongery market, Touch mainly supply to residential premises but hotel and office properties also contribute to their vast clientele.

The company also have a healthy export market to all corners of the world, namely the Middle East, Europe and the Americas. Touch's owner and founder, Bill Benham, has 38 years' experience in the ironmongery trade, as do his colleagues Jim Haselup and Alan Blanchard. Saleem Qureshi is the newest member of our team and has 10 years' experience, meaning their knowledge is unrivalled in this industry.

The range of products supplied by Touch date from circa 1640 French (Louise XIV) and cover all subsequent periods (Georgian, Edwardian & Victorian), art deco and contemporary pieces also make up the product ranges. In addition, Touch showcases the very best of British manufacturing; the best ranges are still produced in the Midlands by craftsmen in factories dating back 200 years or more.

Touch Ironmongery have recently become suppliers for Designer Doorware (Australia) who have beautiful products with a cutting edge design Metal , Wood and concrete. We also have the exclusive rights to sell the Olaria (Barcelona) range in the UK.

Olaria make all our bespoke products, they have incredible levels of workmanship. Touch also sell European manufactured goods which is considered to be of a very good quality and in recent years they have introduced some of the far eastern made products, albeit in a limited range but cost effective. With trends continuously evolving new innovative products are constantly under development. Touch understand that keeping up with the fashion-shifts is imperative in order to provide every customer with the best solution for their requirements.

Ironmongery can be a difficult and complicated aspect od a building project, as a result Touch aim to take this awkward aspect and make it user friendly and clear to understand by offering an on-site service where they carry out a detailed door by door, window by window, room by room Ironmongery schedule, highlighting all requirements and identifying any items that can be refurbished. Refurbishment is a large part of the business; Touch will undertake complete ironmongery refurbishment projects, and can restore old paint covered door furniture to their former glory, looking as new, at a fraction of the cost to replace.

For more information about Touch Ironmongery or to arrange a showroom visit please call 0207 351 2255 or alternatively visit www.atouchofbrass.co.uk





BRITISH & EUROPEAN MANUFACTURERS SUPPLYING THE FINEST QUALITY IRONMONGERY

Touch combine traditional skills with modern manufacturing techniques to produce the most beautiful, quality fittings, built to stand the test of time.

As well as specialist bespoke items, Touch supply over 1000 products, available in 23 different finishes to furnish high end residential and commercial properties, royal palaces, government houses, historic castles and stately homes.

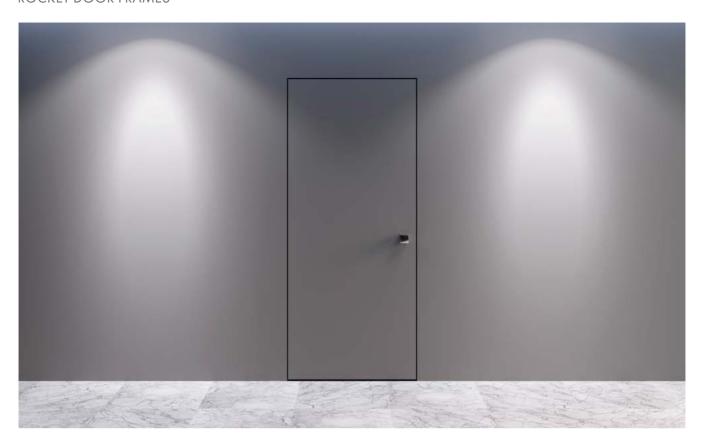
Olaria, available from Touch Ironmongery
www.atouchofbrass.co.uk & www.olariabarcelona.com











THE DOOR BECOMES PART OF THE DESIGN

'FLUSH TO WALL' DOORS WITH NO VISIBLE HINGES OR ARCHITRAVES

It started as a fashionable thing to do a couple of years ago and would normally have gone out of fashion but the 'Flush to Wall' door with no visible interruptions has extended the interior designers canvas by making the door part of the design and for this reason has become even more popular.

Of course the line of sight is cleaner, wall – door - wall, the contemporary result gives a very modern feel but it also allows the door to be incorporated into the design making it a continuation of the overall look.

No more compromises, having to choose the style of door that is closest to the interior design concept. With 'Flush to Wall' the door can be painted the same colour as the wall becoming almost part of the wall – sometimes called an 'invisible' door!

That is not the only option though, for example the door could be wallpapered the same as the wall, or it could be used as a continuation of the design itself. If you'll pardon the pun the Flush to Wall' concept opens up the door to a complete homogenous interior design.

Rocket Door Frames are at the leading edge of this change, manufacturing a galvanised steel frame that can be plastered into at the edges creating the 'Flush to Wall' effect. Combine this



with integrated invisible hinges, a useful telescopic adjustment to accommodate varying wall thickness and strike plate adaptors for the leading types of locks and you have a very complete package.

To make it easy for the installer the Rocket system is designed for use with readily available 44mm flush panel doors and, along with the frame, Rocket supply a individual hinge jig for routing out the door. There is even a FD30 version supplied with intumescent strips to attach to the frame.

So if you are an architect or interior designer and you want to make the most of your design consider Flush to Wall doors and take a look at rocketpocketdoors.co.uk or call 03309980617

BESPOKE WOODEN WINDOWS AND DOORS

The Sash Window Workshop were contacted by a property refurbishment company, who were working on the restoration of property in Oxfordshire.

With several of the windows requiring bespoke specifications, extra care was essential to ensure that the new windows fitted perfectly.

The new joinery was manufactured at the company's workshops in Berkshire. In total, 21 new windows and doors were manufactured and installed, along with 21 new sashes into existing window frames and repairs being carried out to 4 additional windows and doors.

The Sash Window Workshop liaised with their client, who were responsible for the project, to ensure that the work was carried out in several phases to align with the project's progress.

Upon completion, the owner commented that they are very happy with the windows and doors, that helped transform the property into a welcoming home. The owner has since placed an additional order for further work.

The Sash Window Workshop specialise in manufacturing, installing and draught proofing traditional, wooden windows





and doors across London and Southern England, offering a supply only service across Great Britain.

They use a timber called Accoya, which is sustainable and extremely durable, coming with a 50-year anti-rot guarantee. The materials used enable them to produce windows and doors to the highest specifications, giving the best possible performance and combining minimum maintenance with maximum lifespan.

To obtain a quotation, contact The Sash Window Workshop on: 01344 868 668 or email info@sashwindow.com.

You can also visit their website: www.sashwindow.com.



High Quality, Timber Window and Door Specialists



Providing Tailer Made Solutions For Your Project. Period Property Experts. Supply Only, Supply and Install, Draught Proofing.

01344 868 668 www.sashwindow.com

THE SASH WINDOW WORKSHOP

DRIVING SECURITY FORWARD WITH THE COMPLETE PACKAGE

If you were selecting a car for security reasons, would you be looking for one that just had 4 wheels, an engine and a door you could lock? No, of course not! You would rightly be interested in its overall performance, verified roadworthy tests, the quality of its components, not to mention other safety features and naturally its appearance and stylish kerb appeal.

Selecting the right Secured By Design (SBD) Doorkit is not dissimilar. It's not simply a case of meeting the minimum requirement, with a piece of paper that says SBD Tested, anything will do! After all there is so much more to consider in the modern build environment, from fire rating to life cycle expectations and installation to design flexibility. **Portaro SBD Interior timber Entrance Doorkits** from Vicaima provides just that scope, with ease of assembly, quality materials, outstanding performance and design appeal as standard, all encased in one of the most comprehensively certificated products on the market.

Of course, one of the first considerations for any project or development is how will it look and will it fit in with the project design theme. Here the Portaro SBD system provides a rarity in today's somewhat limited market. With matching door, frame and architrave in a myriad of veneered, foil, laminate, paint lacquered and even special finishes, the Portaro system offers complete design freedom, so that performance does not equate to compromising aesthetics.

Beyond the finish itself, design configuration also offers flexibility, with a choice of either a conventional architrave or for a seamless face the Inverse system, where door sits flush with its surroundings. All door systems incorporate a 3-Point locking system, handle and security escutcheon, together with an automatic dropseal.

Returning to our choice of car for a moment, another prerequisite in any purchasing decision, would be to lift the bonnet for a peak at the engine. Obviously a little harder to do with doorkits, however it should be remembered that the important performance of any







security door assembly is often not visible to the naked eye. Here again no 'cutting corners' or 'good enough' criteria are employed when manufacturing a Portaro SBD Doorkit. The doors themselves are constructed with heavy duty and high-density cores, surrounded by double timber rails on all sides, complete with hardwood lippings. Furthermore, the frames are made from hardwood and come pre-fitted with fire, smoke and acoustic seals.

From the installers perspective, the **Portaro SBD System** really is the complete package. Supplied as doorkits for ease of fitting on site, the carefully and separately wrapped doors come premachined with all primary components, alongside the boxed and matching frame / architrave sections with simply connecting parts and screws. All designed for easy and rapid assembly.

There are so many reasons why Portaro SBD Doorkits offer the ideal entrance security solution, of which these are just a few:

- Certified Secured by Design with dual scope Fire and Security certification
- Sound reduction performance with Acoustic AC35 and AC36 options
- Completely matching door and frame surround
- Ease and speed of assembly on site
- Quality components and construction
- FD30 to FD60 Fire Rating
- SBD Inverse Model

For anyone looking to move out of first gear when it comes to security standards, then Portaro SBD Doorkits really are worth a test drive.

For further details download your copy of the new **Portaro Brochure** or visit the Vicaima website **www.vicaima.com** contact info@vicaima.com or Tel: +44 (0) 1793 532333

P C HENDERSON'S SIENNA SYSTEM SPECIFIED FOR A STUNNING SELF BUILD IN COUNTY WICKLOW

P C Henderson's Sienna sliding door system has recently been specified for a stunning self-build project in the beautiful countryside of Aughrim, Co. Wicklow.

Looking to build their dream family home, Fáinche and Donnchadh Murphy were delighted when they came across the perfect site situated in the Co. Wicklow countryside surrounded by stunning mountain views.

Planning the design of the 3 bed bungalow themselves, the couple's main goal was to create a large open plan living area for the family to enjoy. To ensure flexibility of living, the couple opted for double glazed sliding doors to separate the living area from the bedroom block – vaulted ceilings were also included in the design to enhance the space even further.

Fáinche Murphy commented, "Our aim was to maximise floor space in the living area whilst having the flexibility to create open spaces during the day and then close the doors off on an evening to enjoy a cosier environment. Sliding doors seemed





the perfect solution especially with the added benefit of saving floor space in comparison to a swing door".

P C Henderson's Sienna sliding door system was identified as the best solution for the project. Designed with a stainless steel bar track and exposed top mounted hangers, Sienna offers an elegant and stylish system.

P C Henderson's Sienna sliding door system caters for wooden and glass doors weighing up to 120kg. Available in a range of track lengths, the system caters for both single and biparting door applications.

For more information visit www.pchenderson.com



SLIMPORT ROUND METAL 74 ERO plus **VISION FRAMES** ■ AVAILABLE IN 4 SIZES - 250, 350, 450, 550MIV ■ AVAILABLE IN 4 DOOR THICKNESSES - 40, 44, 50, 54MM ■ MANUFACTURED FROM MILD STEEL AND STAINLESS STEEL ■ FULLY FIRE TESTED TO SUIT TIMBER DOORS AND STEEL DOORS CONCEALED FIXING ONE SIDE AVAILABLE AS A FULL KIT WITH GLASS AND GLAZING TAPE SLIMPORT CIRCULAR VISION FRAMES WITH THEIR CLEAN LINES ENHANCE THE APPEARANCE OF ANY DOOR. THIS FLUSH FITTING DESIGN IS AVAILABLE IN STAINLESS STEEL, OR ZINC PLATED MILD STEEL READY FOR COLOUR COATING. NOW PRACTICAL VISION REQUIREMENTS NEED NOT COMPROMISE AESTHETICS, SLIMPORT VISION FRAMES WITH THEIR UNIQUE CONCEALED FIXING DESIGN ARE THE ANSWER, IDEAL FOR LUXURY OFFICE SUITES CORRIDOR DOORS OF ASSROOMS RESTAURANTS ETC. RECTANGULAR AND CUSTOM SHAPE VISION FRAMES, ALSO AVAILABLE. Zero Seal Systems Ltd Units 43 - 45 Ladford Covert, Seighford, Stafford, ST18 9QG, United Kingdom Tel: +44 (0)1785 282910 E-mail: sales@zeroplus.co.uk WWW.ZEROPLUS.CO.UK



UNIFUN TIANFU CHENGDU

INTEGRATING ARCHITECTURAL FORM AND DIGITAL PROMOTION INTO A COHERENT WHOLE

The 42,500 square meters UNIFUN Tianfu Chengdu is an online and offline architecture with a multi-media facade system and a large area of outdoor social space. CLOU architects aim to integrate architectural form and digital promotion into a coherent whole.

ONLINE AND OFFLINE INTERACTION

UNIFUN Tianfu Chengdu presents an aesthetic inspired by Rubik's Cube. White pixel modules with red details and large multi-media façade systems create different spatial and visual effects with the passage of time.

During the daytime, the cuboid volumes blend into the orderly surroundings of the community and introduce a large area of outdoor terraces for locals to enjoy the street life.



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The project seeks to integrate both online technology and commercial sensibilities into the architecture through modulated interactive façade systems.

While at night, light penetrates through the openings of the aluminum panels' joints, enriching the night cityscape with a sense of futurism. The architecture can be interpreted as an interface between the virtual and physical world.

LIGHTING SYSTEM AND MEDIA FAÇADE

Maison de la Publicité Project by Oscar Nitzchke with Hugo Herdeg is considered as a media architecture as early as 1936. The utility of lighting and photomontage transforms the building into a media device that brings a new understanding of façade into the architecture world. One of the important factors that affect the media facade is lighting technology, for instance, the visual of a regular facade can be varied by lighting to present a series of free-flowing patterns. Different lighting effects can be continuously adjusted to change the facade of the building, and will also interact better with the multi-media screen. From light to shade, color, and graphics changes of the façade system, CLOU architects expect to achieve different visual effects for UNIFUN from the outside.

PROMOTION CANVAS

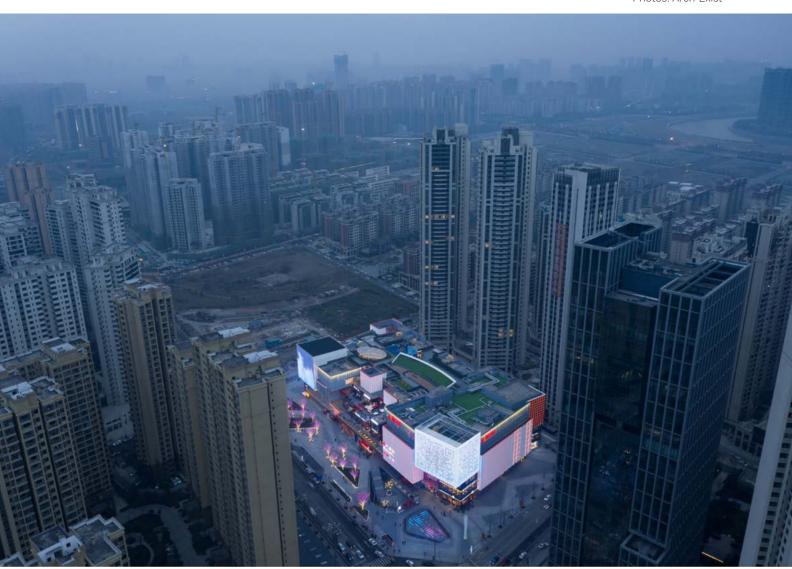
The project seeks to integrate both online technology and commercial sensibilities into the architecture through modulated interactive façade systems. The digital canvas, as an upgrade of traditional façade advertising, could broadcast exciting and informative content in real-time such as branding images, online advertisement, social media activities, and offline event information





CLOU ARCHITECTS

Photos: Arch-Exist







FAÇADE GAMIFICATION

In addition to the concept of "cube", the façade was also inspired by animated game culture in the age of social media. The design features glass panels with LED curtains that could be developed into an architectural platform for digital context add-ons. Within this context, the aim here is to deliver an innovative design that responds to the exciting prospect of regional development while opening up the possibilities and extending the reach of architecture.

PROJECT INFORMATION

Project Name: UNIFUN Tianfu Chengdu Type: Community Mall Client: China Overseas

Location: Xianghe San Street, Tianfu District, Chengdu, China 7 Construction Area: 42,316.9 sqm

Façade Design: CLOU architects

Design Team: Jan F. Clostermann, Lin Li, Wenlei Ma, Myungin

Lee, Sebastian Loaiza, Na Zhao

LDI: Hong kong huayi design consultants (Shenzhen) LTD. Façade Consultant: SuP Ingeneure GmbH Lighting Consultant: Beijing Pro Lighting Design Co. LTD.

Interior Design: Callison RTKL Photography: Arch-Exist

www.clouarchitects.com

PREMIER TECH WATER AND ENVIRONMENT ENSURE A SUSTAINABLE AND ECO-FRIENDLY ENVIRONMENT, WITH COCONUT-HUSK BASED WASTEWATER TREATMENT

and Environment has been protecting our properties and our environment with sustainable local solutions. With over 100,000 installations already across the globe, the Ecoflo Coco Filter is a proven system for enhancing wastewater effluent quality for a variety of applications. Now, Premier Tech Water and Environment has brought the Ecoflo Coco Filter to the UK

For over 25 years, global company Premier Tech Water

market, to further improve the effluent quality for both residential and commercial projects that require off-mains wastewater treatment.

100% natural, organic and renewable, the Ecoflo uses coconuthusk fragments that are produced by cutting up the husk that surrounds the fruit of the coconut. This mechanical process ensures complete control over the size of each fragment and overall porosity, guaranteeing a uniform filtering medium that delivers a consistently high wastewater treatment performance over time.

Ecoflo works with a non-mechanical tipping bucket that scatters wastewater across perforated distribution plates.

Wastewater drips through these plates and falls across a filter made of coconut husk fragments, creating a physical

barrier that cleans wastewater effluent to an even higher standard. After percolating through the all-natural filter, water is then safely discharged into the environment.

With areas of the UK already beginning to stipulate stricter effluent standards for wastewater outflows, the Ecoflo Coco

Filter offers an ecologically friendly alternative to replacing an existing septic tank or sewage treatment plant. The Ecoflo Coco Filter can also be specified as part of a new treatment system to fully protect and preserve UK watercourses, streams and nearby rivers.

To find out more about how Premier Tech's ecoresponsible wastewater treatment solution can protect our communities, our environment and our planet for generations to come visit: PT-WaterEnvironment.co.uk



TAKE THE LEAD ON LEAD

IS AN OLD WATER SUPPLY HARMING YOUR CLIENTS?

Not replacing an aging water supply might seem a budget saving option in redevelopment projects, but old lead supply pipes come with their own issues.

There is now a clearer understanding of the potential health problems caused by lead, particularly in infants and young children. Lead pipes also degrade, and often provide a lower flow rate of water to the property, potentially challenging the supply volume with the additional demands placed by extra bathrooms or even instantaneous hot water systems.

Although the use of lead in plumbing has been banned in the UK for more than 50 years, in some areas up to a third of older properties are still receiving their water through their original lead pipes. Replacing these with a modern water supply pipe is the only totally secure method to reduce lead levels in the water supply.

Traditionally, any lead replacement program requires major excavations outside a property and causes huge disruption within. Resulting in mess and disturbance to householders over several days. This disruption has often been the cause of users' reluctance to have the work undertaken

REPLACE LEAD WATER SUPPLY PIPES IN UNDER 2 HOURS...NO MAJOR EXCAVATIONS, MINIMAL DISRUPTION WITH INSUDUCT®

INSUduct® is an innovative solution. Minimising disturbance, time and cost

Unlike traditional methods, INSUduct® allows the new water service to be routed up the external face of the building and connected to the internal plumbing above ground level, whether this is the ground floor or upper storey. In multi-occupancy properties INSUduct® allows multiple supply pipes to be installed, as it is designed to provide frost protection for up to three 32mm OD water pipes installed to the exterior of the building.



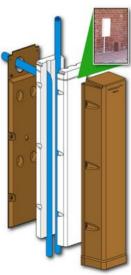
INSUduct only requires one simple core drilled hole through the wall, at an appropriate point to connect with the internal plumbing. This enables most water supply replacements to be completed within a couple of hours, without the traditional mess and disruption to the householders or occupiers. There is also little impact to the exterior appearance of the property, as the INSUduct system provides a neat, clean finish to the job.

Groundbreaker products are designed to provide long lasting and effective thermal protection to water pipes and fittings outside the thermal envelope of a building. Carefully fabricated to provide long lasting and effective thermal protection to water pipes and fittings in external situations, the products exceed British Standard 5422 and all relevant Water Regulations for frost protection and is on the "approved list" of most UK water companies.

Groundbreaker Systems, 3 Fairways, Stuston, nr Diss IP21 4AB Tel: 01379 741993

www.groundbreaker.co.uk/products







The ground breaking surface mounted water control management system



Groundbreaker

The ONLY water management system that delivers value for existing water supplies

- Perfect platform for 'Smart Water Meters'
- Complies with best practice guidelines, *UK/HBF Joint Industry Development Committee*
- Meets Secure By Design criteria.
- Temperature resistant to -15°C for 3 days
- Multiple location options
- Easy access for meter reading
- Low cost maintenance
- Constructed from reprocessed materials

Can be installed at any point to new or existing buildings.
Ideal for:

- Modular home developments
- Brownfield (contaminated) sites
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- Park homes & caravan sites
- Compatible with barrier pipes



Groundbreaker is the only Surface Mounted Water Management System to meet and exceed all UK regulations.

- Complies with BS 6920 and BS EN ISO 12241
- Exceeds BS 5422
- Certified for the protection of backflow
- WRAS Approved







Taking the lead on LEAD?

The only safe way to deal with lead in a water supply is to replace lead supply pipes.

Introducing INSUduct®

The innovative pipe replacement solution that minimises disturbance, time and cost.

- Replace lead water supply pipes in under 2 hours
- No major excavations
- Minimal disruption

INSUduct™ Exceeds British Standard 5422 and UK Water Regulations for frost protection, and has been used across the UK as part of lead replacement programmes.

IS YOUR SUPPLY LEAD?

If your property was built before the 1970s check our identification guide www.groundbreaker.co.uk/2020/02/17/insuduct-taking-the-lead-in-lead

For further information on these highly effective systems and other products go to:

www.groundbreaker.co.uk/products

Email: sales@groundbreaker.co.uk Tel: 01379 741993

Groundbreaker Systems, 3 Fairways, Stuston, nr Diss IP21 4AB



BLUEPRINT

ARCHITECTS RICHARD COUTTS AND KOEN OLTHUIS CREATE A SOLUTION FOR CITY EXPANSION – FLOATING NEIGHBOURHOODS

Two of the world's leading experts on water placemaking and floating architecture have collaborated on a masterplan for Charlestown Navy Yard in Boston which will deliver a new residential neighbourhood on the water as well as a waterside public amenity. The pair, Koen Olthuis, Principal of Waterstudio in the Netherlands, and Richard Coutts, Principal of London-based Baca Architects, were invited onto the design team by Boston's 6M Development who are seeking to implement the first floating housing community off the East Coast of America. The intention is that the development will provide a template for climate adaptive and resilient affordable homes across the Hudson Harbour and along the entire U.S. coastline- and indeed to any other coastal city where land costs are high.



It will be a wonderful neighbourhood and a catalyst to activate this stretch of the harbour and possibly beyond.



The scheme centres on repurposing a long-dormant pier by selectively demolishing and retaining parts to create four sturdy islands that will become anchoring points for floating homes, providing Boston with much-needed housing economically and efficiently. The homes will be built on top of large floating pontoons tethered to the islands by flexible moorings, allowing the homes to rise and fall with the tide. The pier development will thus work with the dynamic tidal range of Boston's Inner Harbour while also achieving a canal experience reminiscent of Amsterdam. Sustainability is key to the scheme which is aiming for 138 LEED Certified Gold and will include a water heat exchange, acting as a renewable "blue battery", to provide heating and cooling together with solar pergolas on the rooftops which will generate sustainable energy.

The homes will be built using modern methods of construction consisting of structural highly insulated prefabricated timber panels.

They will offer four levels of accommodation with three and a half sitting above the waterline, no higher than 12 metres above the existing pier height. Half the lowest level will be below the waterline, with windows above, and will sit within the flotation unit to provide buoyancy to the rest of the structure. There will be a combination of townhouses, duplexes and apartments with balconies and roof terraces and easy access to a boat mooring, designed to adapt to different mix of units as the evolving market dictates.

Each island will have its own character and offer different types of amenities from numerous pocket parks, wetland fringes providing natural habitats, a public harbour walk and canal-side pathways to event spaces, retail, cafes and restaurants at the water's edge and a gourmet market. The development will be pedestrian access only, served by water taxis and private boats.

"It will be a wonderful neighbourhood and a catalyst to activate this stretch of the harbour and possibly beyond," says Richard Coutts. "We are not only creating homes in strategic locations but are activating the waterfront for the public and providing new green spaces. The different identities of each island will mean that the total development will be greater than the sum of its individual parts."

Koen Olthuis says: "Our scheme marks a tipping point for cities looking to unlock their water potential. With this project, Boston will be able to showcase the new philosophy of Rise of the Blue City in which water space is used to enhance liveability along the waterfront and to bring solutions to combat the effects of sea-level rise and urbanisation".

The practices of Waterstudio and Baca have been collaborating recently on other projects nationally and internationally - from marina designs to hotels and floating hospitality and leisure.

www.baca.uk.com www.waterstudio.nl



DARK DRAMA: THE STOCKWELL HOUSE PROJECT BY HAVWOODS

One of the recent additions to Havwoods' projects portfolio is Stockwell House. Set within the beautiful Lansdowne Garden conservation area in the heart of Stockwell, this impressive and recently transformed Georgian terraced house exudes dark eyecatching character.

The design brief for the project was to create a classic and spacious interior scheme that reflects the language of the external surroundings, connecting it to the inside. All whilst reinstating original features to complement the style and heritage of the property.

The Fendi board in a herringbone composition from the Havwoods collection has been used throughout the lower and upper ground floors, delivering a stunning sense of detail and cohesion. Chosen for its high class and luxurious aesthetic, the herringbone board was also matched with the exquisite Venture Plank Fendi board across the bedrooms and landings to help exude a calmer quality to the home whilst differentiating the areas in the property.

Each room throughout the home embraces a deep monochrome colour palette that gives the interior instant wow-factor. The monochrome theme was carried throughout and into the lower ground floor, with accents of brass and ironmongery to help lift and lighten the space. A mirrored drinks





cabinet at the head of the dining room acts as a focal point whilst the bedroom grounds the space and reflects the building's true heritage.

The home is further characterised by vibrant pops of yellow and green with botanical touches that pull the overall scheme together. The end result is a property that has been rejuvenated and brought back to life with the help of Havwoods' beautifully engineered wood flooring.

Photographer credit: David Butler Designer: Peter Lynn of _ing Architects

Builder: Extend

www.havwoods.com/uk



WIREFRAME FROM MILLIKEN

Milliken's latest carpet tile collection 'Wireframe' has been designed to encourage experimentation and individuality. It was also created with ease of use in mind – both aesthetically and economically – with an accessible price point. There are countless ways Wireframe can be used, including to effortlessly transition from one colour to the next organically, with no hard lines.

Milliken's creative team produced Wireframe with the needs of designers in mind. Alison Kitchingman, Director of Marketing and Design explains: "We appreciate that in these challenging times many designers are fully stretched and don't necessarily have the time or head-space to commission a bespoke floor. However, they still want to create dazzling and unique flooring designs for their clients. So, we set about to create a collection which can be applied in countless ways with the scope to create a unique floorplane every time."

For further information visit www.millikencarpet.com

TREX DECKING

Trex Company, the world's No. 1 decking brand, offers a solution to build with green materials whilst not compromising on aesthetics. In fact, no trees have ever been cut down to make Trex. The entire high-performance decking portfolio is



manufactured from more than 95% recycled content. With high-definition wood grain patterns and rich, saturated colours inspired by the outdoors, Trex composite decking looks natural and boasts a vibrancy that remains unchanged for years. Colour options range from deep earth tones to warm umbers, spicy reds and pristine greys.

Featuring a protective shell for superior defense against severe weather and heavy foot traffic, Trex deck boards will retain their good looks even after years of wet British winters. Just an occasional sweep and soap-and-water cleaning is all that is needed to maintain a Trex deck for decades.

Trex decking is available locally through Arbordeck stores at http://www.arbordeck.co.uk/.

Visit http://uk.trex.com for more information on low-maintenance, high-performance Trex products.

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PERKINS&WILL Photos: Robin Hill



RANSOM EVERGLADES SCHOOL STEM BUILDING

SHOWCASING A FORWARD-THINKING FACUITY

The new STEM Center is located at the entrance of the historic Ransom Everglades Coconut Grove Campus. Its location intentionally creates a new quad that showcases the school's commitment to academic excellence, the arts, and next-generation environments for teaching and learning. Understanding the principles of STEM education, Ransom Everglades envisioned a 45,000 SF Center for Science and Math that allows for a multidisciplinary approach to education for both faculty and students. The project's collaboration areas enhance team-based learning and promote an environment of thought leadership, experimentation, and creativity.

Flexibility and adaptability, from moving walls to movable furniture and services, make this facility one of the leading STEM high school centers in the country and showcases a forward-thinking faculty and award-winning student body.



Careful attention has been given to creating spaces that provide learning experiences in all aspects of the design.

Laboratories for earth sciences, biology, chemistry, and physics integrate with state-of-the-art fabrication and maker labs. An aquatics lab functions as a water feature at the front of the building which is framed by the outdoor student commons and the Center for Excellence in Teaching and Learning incubator. This incubator is a center for faculty, administrators, students, and visitors to exchange ideas, exhibit new trends in education, and elevate the national dialogue on STEM education.

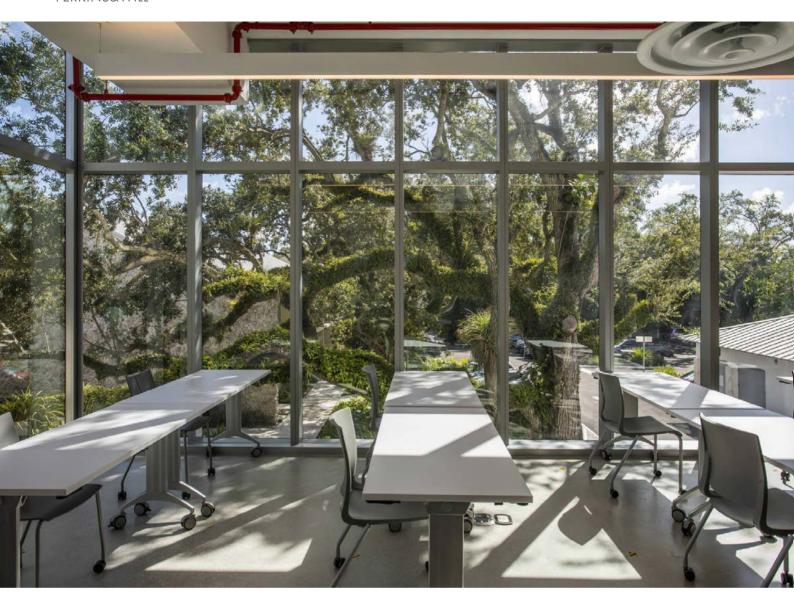
The design of the building embodies the latest in educational facilities, recognizing that next-gen education requires new kinds of learning environments. Careful attention has been given to creating spaces that provide learning experiences in all aspects of the design; from the design of its systems to environmentally responsible strategies including careful calibration of daylighting, acoustics, and technology-enabled spaces. Design drivers included creating spaces that promote creativity, experimentation, and learning, freedom of expression, social responsibility, leadership, inclusion, respect, and professionalism.

These same drivers are also utilized globally in new corporate campuses, research facilities, and higher education campuses. Today, learning occurs at all times of day and in all kinds of environments. Technology has allowed for more fluid interaction with information. Formal classrooms or laboratories are only one of the many spaces where students and teachers interact. It is of the utmost importance in today's educational facilities to create informal spaces, emphasizing the "space in-between".

The Ransom Everglades STEM building design recognizes this and provides an array of informal learning spaces.









The building's main circulation spine creates hubs of collaboration with full transparency and spaces that can be reconfigured at each level. An outdoor grand stairway or student commons, outfitted with power and data infrastructure, provides the opportunity to showcase learning, impromptu lectures, or exhibitions as well as formal scenarios ranging from outdoor theater productions and performances to guest lectures.

Technology throughout the facility allows for local, national, and international connectivity and enables students to remain informed of the building's performance, featured projects, class activities, and general information. The building is a lantern and a living laboratory showcasing the future of STEM and Ransom Everglade's continuing leadership in Academic Excellence.

Manufacturers: AutoDesk, HUFCOR, Armstrong, Clear Choice Prestige Series 2020 Sliding Door System, Gate Pre-cast Company, Husseyseatway, Kawneer system, MDC Wall, Trespa Pura

Design Team: Pat Bosch, Steven Turckes, Elina Cardet, Lincoln Linder, Alejandro Branger, Neyda Otero

Landscape:Perkins&Will

Clients: Ransom Everglades School

www.perkinswill.com

UNDERFLOOR HEATING TICKS ALL THE BOXES!

By Steven Rooney, Sales Director at Gaia Underfloor Heating

When it comes to heating, there is no single off-the-peg solution that suits every situation and it is no longer a case of considering the individual components in isolation. Now the emphasis is on looking at the whole project design and mixing and matching various systems to achieve the most appropriate overall solution.

This is being driven by the building regulations which, in turn, are taking account of the sustainability agenda, energy use and reduction of CO2 emissions in buildings. As a consequence, suppliers that provide total designed solutions rather than individual products are in a winning position.

Underfloor heating (UFH) - whether wet or electric – is well placed to be part of a holistic design solution. It scores well in terms of environmental performance and is regarded as economical, ultra-efficient and comfortable.

Simple to install and control, UFH wastes no heat at ceiling level and frees up valuable wall space, providing complete design freedom. Wet systems circulate water at low temperatures through a series of continuous pipe loops laid within a screed, or between timber joists, beneath the floor surface. Electric systems consist either of cables laid within the screed or cable mats laid on top of existing subfloors.

Importantly, UFH has the ability to tick the boxes when it comes to working with renewable energy and sustainable solutions yet it cannot do this in isolation. It must be considered in terms of the other components



that make up the floor such as insulation, screed and floor coverings as well as in relation to the energy source, the overall specification of the building and level of sustainability being sought.

In this market, it is increasingly important for companies to deliver a one-stop-shop, solution-driven service that 'bolts' together multiple products to deliver true value to the client. And value, in these terms, represents more than price and product; it is about customer service and certainty with one point of contact, bespoke design, shortening of the build programme, ease of installation, compliance with regulations and end-user appeal, plus a warranty based on the knowledge that the company is well established and is still likely to be in existence in ten years time.

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NORCROS ADHESIVES ASSISTS WITH STUNNING CINEWORLD PROJECT

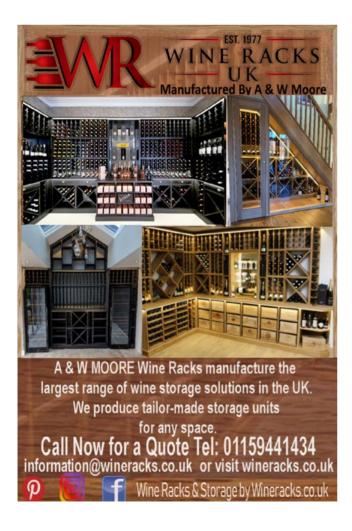
Norcros Adhesives has been involved in an exciting project to replace the floor at a popular branch of Cineworld in Harlow.

The substrate of the existing tiled floor was an anhydrite screed, which had not been allowed to dry out properly prior to the laying of tiles and as a result these had failed to adhere properly, which was beginning to cause problems.



It was a £60,000 project for commercial interior specialists Bentley Rowe, who needed to completely strip out and re-tile the foyer area at the cinema. As an added logistical challenge, the management wanted to keep the cinema open, so hoardings were erected with extraction to minimize noise, avoid dust and keep customer flows going in the areas that needed to be kept accessible. The cinema is situated within a shopping centre, so any disturbance to neighbours had to be taken into account as well.

For further information visit www.norcros-adhesives.com



CFIFBRATING THE NATURAL WORLD

My latest collection of paintings, titled 'Course of Events' is a celebration of the natural world. These works incorporate materials collected while out walking or visiting various locations. Natural minerals such as earth, limestone, rocks, slates and tiles are ground to produce subtle colours. Applied to canvas or linen by pouring and smearing, fascinating textured surfaces are achieved. It can even be possible to integrate a small element of a building or location into the painting.





An interest in ancient rock art and geology has influenced my approach to landscape painting. I wanted to produce landscapes

which have a close connection to the land, exploring it's particular qualities of colour, consistency and transformations undergone through the processes of time.

These works ideally suit the contemporary home or corporate space, being both decorative and contemplative.

Commissions are welcomed and in many cases materials from site specific locations can be integral to the work.

Barbara Karn – Artist www.barbarakarn.co.uk mail@barbarakarn.co.uk (44)7929249154

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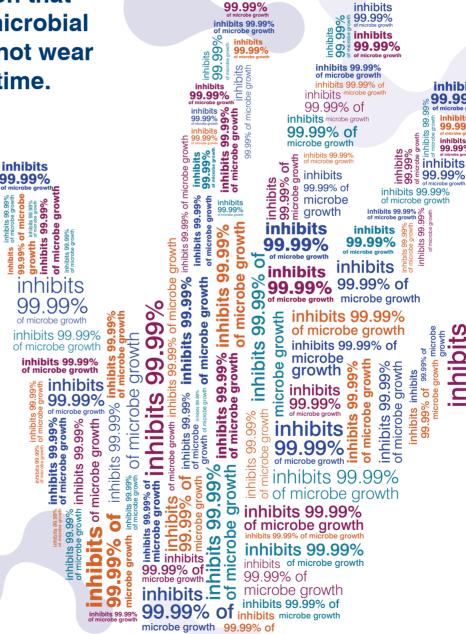




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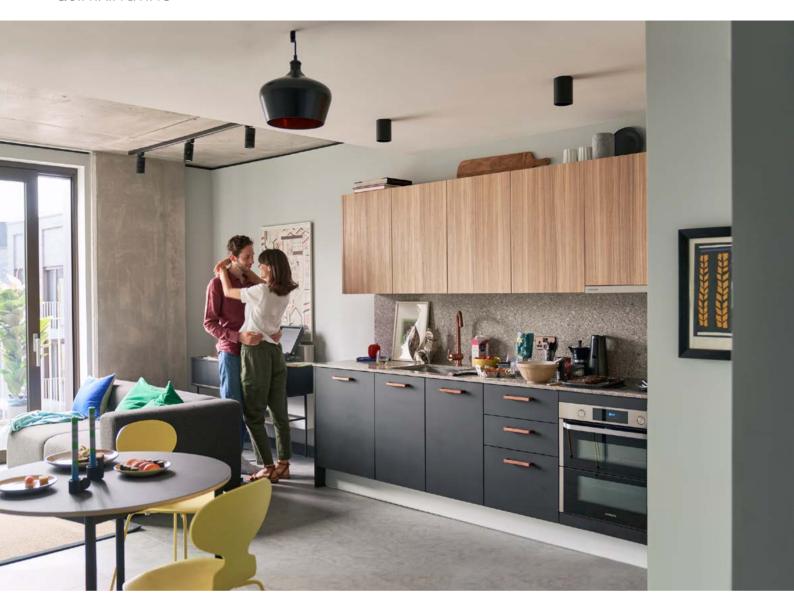


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BETON

QUINTAIN LIVING LAUNCHES 150 NEW ULTRA-STYLISH APARTMENTS AT BETON IN LONDON'S WEMBLEY PARK

Quintain Living – the award-winning management company overseeing rental of over 2,500 apartments in Wembley Park – has announced the launch of its latest ultra-stylish new building: Beton. The studio, one, two, three and four-bedroom apartments deliver a design-led living experience set within one of London's most vibrant new neighbourhoods.

Named after the French and German words for concrete, Beton's 150 distinctive apartments are spacious and full of light, thanks to floor-to-ceiling windows and track lighting. Function and form meet perfectly to create a truly unique home for renters. Polished concrete is softened with wood and softer metallics, with furniture co-designed with contemporary English designer Ercol and Danish designers Muuto and Hay, adding a clean, modern design aesthetic.



66

Named after the French and German words for concrete, Beton's 150 distinctive apartments are spacious and full of light.



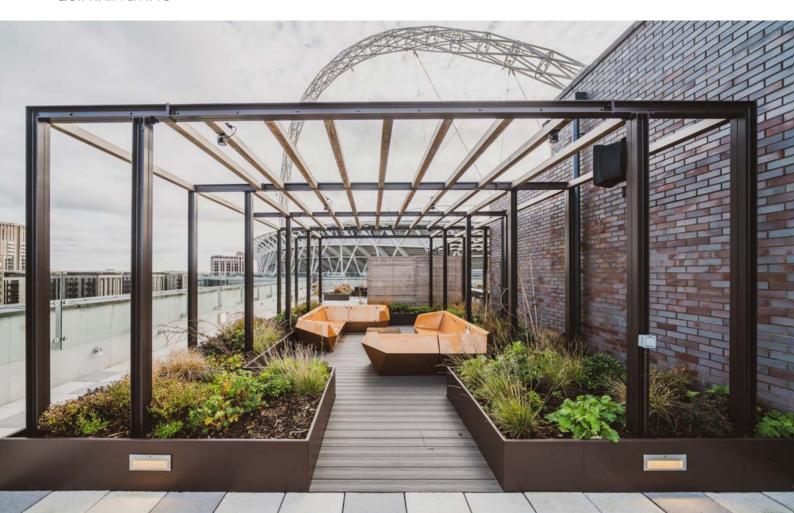
Beton's 'broken plan' social spaces cleverly blend privacy with company. The building features work from home spaces spread across a mezzanine floor, a cinema room, pool table and a stunning roof terrace on the 12th floor which overlooks the iconic Wembley Stadium arch. As cycling continues to grow in popularity, Quintain Living is also introducing its first bike workshop which will offer a wash station, tools and maintenance equipment and free-to-use spin bikes as well as secure storage.

Danielle Bayless, Chief Operating Officer, Quintain Living, says: "Every one of our buildings enables and inspires the life that our residents are crying out for. London has seen a 200% uplift in cycling during the pandemic and we know that secure spaces to keep, repair and clean bikes will be more and more in demand. Beton is just another example of smart design thinking and attention to detail, to keep one step ahead of consumer desire."

The pet-friendly homes are situated in the heart of the action, with the best of Wembley Park's shopping, dining and lifestyle experiences on their doorstep.









As with all of Quintain Living's apartments, they make moving in simplicity itself. All utilities, including free superfast Wi-Fi, are set up and ready to go, with one monthly bill that breaks everything out for total transparency.

Danielle Bayless, Chief Operating Officer, Quintain Living said; "I am so proud of my team for launching this incredible building. It is spectacular - different again from our other buildings and it will appeal to a wide audience. Our first four-bedroom apartments, and the décor is amazing – I have never seen anything like it. Plus, we've got some great offers for new residents too, 2 months free on a 12-month lease if they move in by the end of March."

Wembley Park is one of London's hottest creative neighbourhoods with a curated community of independent and artisan restaurants including London's largest Boxpark, more than 70 high street brands at London Designer Outlet and numerous recreation spaces including a new seven-acre park opening later this year.

Experiential living comes to life at Bread Ahead's bakery school, while artisan pasta specialists Pasta Remoli will keep even the most demanding Italophile happy. And for leisure time, there's a nine-screen Cineworld cinema and the Troubadour Wembley Park Theatre, in addition to both Wembley Stadium and Wembley Arena. Beton sits at the heart of all of this, offering the ultimate London lifestyle experience to renters who want it all.

For more information on Quintain Living or to book a viewing (virtual or in person), visit www.quintainliving.com, @quintainliving on Instagram or call 020 3151 1927.

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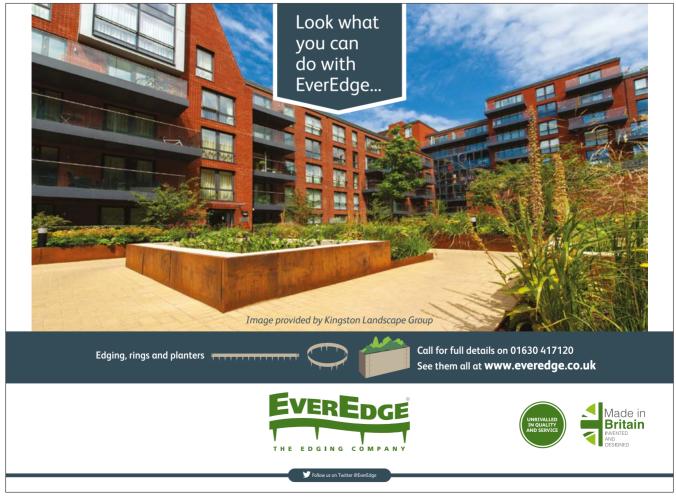
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ARTISAN DESIGNS

TORC MAKE EVERYTHING BY HAND FROM THEIR STUDIO IN THE BRITISH ISLES.

Working alongside a talented team of artisans this family run business really specializes in textures, scale, and especially bespoke design. The design side of the business proving to be very popular with landscape architects and garden designers alike realizing just how much expertise this company has to offer with a wealth of experience in design and problem solving to bring to the table. Torc welcome the opportunity to be involved at the design stage and are happy to contribute ideas when requested. Frequently being commissioned to provide planter designs, outdoor furniture and paving as a one-off template for both commercial and residential spaces.

Launching their new contemporary shaped water bowl this month was a good example of how far they can go – the diameter of this little beauty can be offered up to 3m wide. Their green credentials are impressive too.



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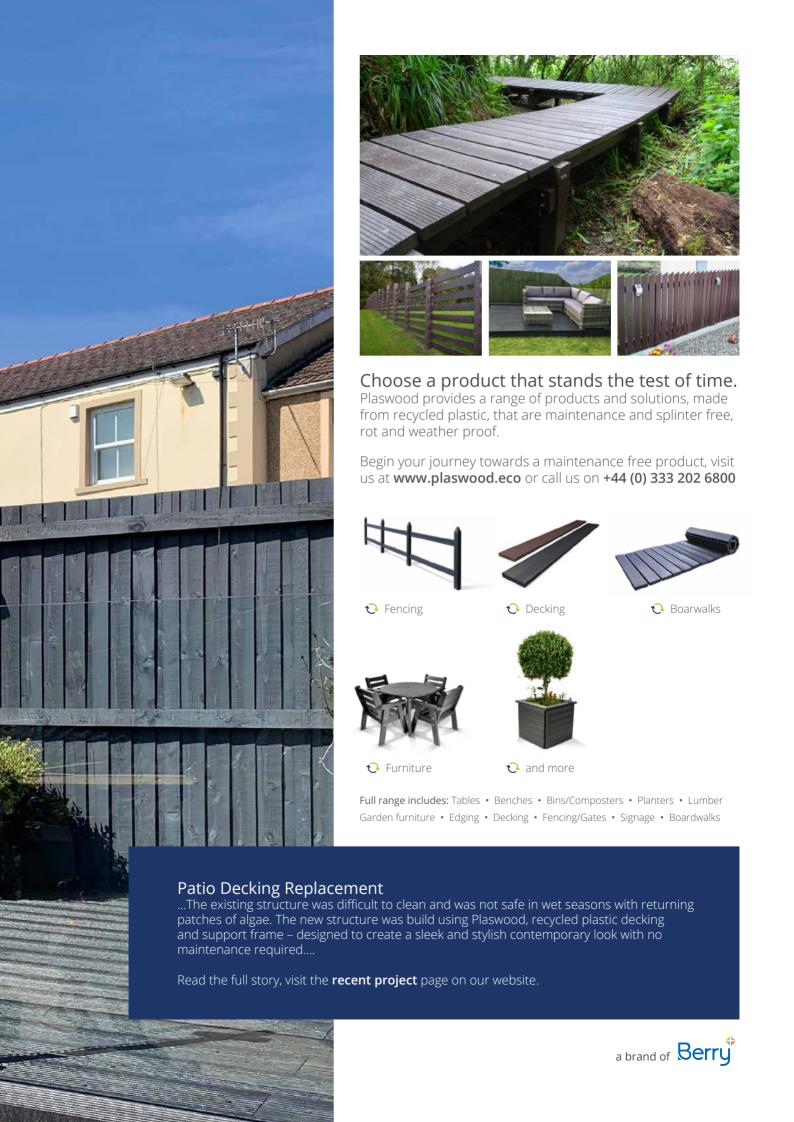


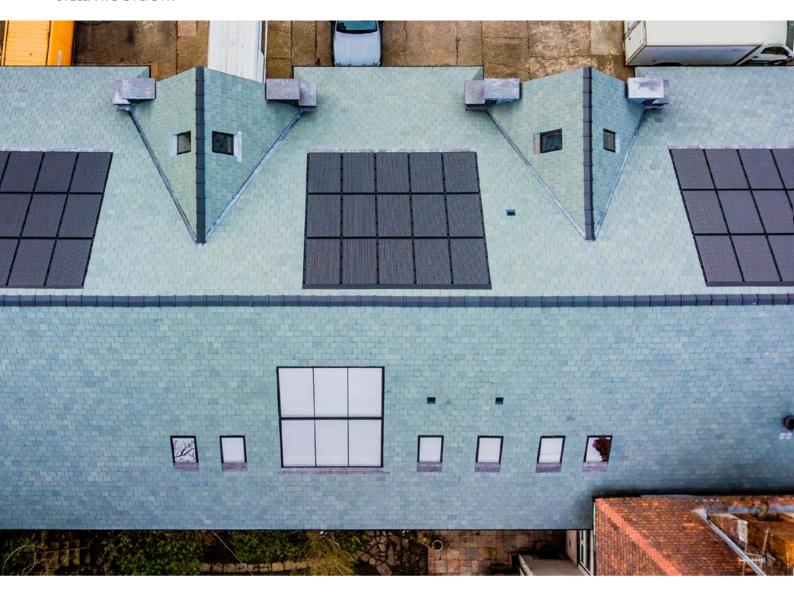




Versatile Hig Strer







LET THERE BE LIGHT

STELLA ROOFLIGHT HELPS TURN OLD CAR SHOWROOM INTO NEW SHOW HOME

Stella Rooflight has supplied 12 bespoke conservation rooflights for a stunning conversion project in the seaside town of Lytham St Annes in Lancashire.

The project to convert a Late Edwardian purpose-built garage and car showroom into a stunning 21st Century modern home was the dream of architect and homeowner Sean Kember. The property was first designed and constructed in 1909 by local architect Thomas Hedges, for the Williams Brothers. The building remained a car showroom for over 100 years and to this day the building remains somewhat of an icon in the local area.

Conscious of the building's local history and importance the new owners were careful to preserve the original fabric of the building, while undertaking the much needed renovation works, which would breathe new life into the building and transform it into their new dream seaside home.



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All 12 rooflights were manufactured using marine grade stainless steel and finished in a high quality C5 marine grade black powder coating.

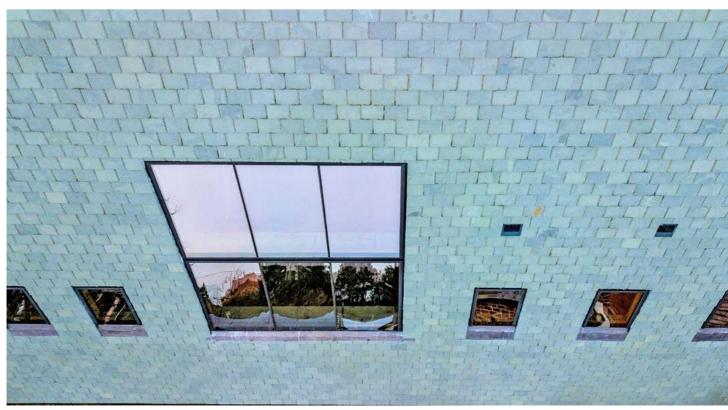
A large part of the renovation and conversion works included the complete rebuilding of the old steel structured roof with new timbers and the installation of large conservation rooflights, which would flood the large open internal space with natural daylight.

Stella Rooflight were commissioned to produce a total of 12 bespoke conservation rooflights to fit the new openings. 10 smaller rooflights, which comprised of 6 opening and 4 fixed frames, were designed to fit internal rafters of $690 \, \text{mm} \times 940 \, \text{mm}$ and $550 \, \text{mm} \times 740 \, \text{mm}$. A much larger non opening rooflight which was sized at $3000 \, \text{mm}$ wide $\times 3500 \, \text{mm}$ high was designed as a grand centre piece in the roof. This rooflight was supplied in two sections which were purpose designed to sit one on top of the other, with each section being divided into three panes.

All 12 rooflights were manufactured using marine grade stainless steel and finished in a high quality C5 marine grade black powder coating. An important consideration given the building's coastal location and the propensity to rust associated with mild carbon steel rooflights.

The Stella rooflights also included a high specification glazing with BioClean Self-Clean, Solar Control outer pane with a warm edge spacer filled with Argon Gas. The internal glass panel used Planitherm Comfort Plus to provide the perfect balance of light, warmth and comfort. The rooflight was finished internally with a stunning American Ash interior liner.









Due to the size of the larger rooflights, a specialist crane was required to lift the rooflights from the delivery vehicle, over the building and directly into place. The installation required careful planning, which was overseen by local specialist roofing contractor Ben Valentine-Lynden from Blackpool Industrial Roofing.

Ben said: "Throughout the process we dealt directly with Paul at Stella. He was incredibly helpful throughout, advising us on the whole installation from the crane lift to weather proofing the roof lights. Paul was also happy to schedule the arrival of the rooflights to suit us and the weather, on arrival the units were packaged excellently and made for an easy transition from wagon to roof.

"Overall I think these are agreat product, easy enough to install and the finished look is fantastic. Would definitely recommend and would use again."

Sean Kember, Client and Director of Gilling Dod Architects, said: "Stella's technical team worked closely with us throughout the process and were a great help in making sure that everything ran smoothly. As you would expect we did a great deal of research before deciding to run with Stella Rooflights, and from your initial assistance with the specification through to the installation on site, you have been great to work with. I would also like to say that the quality of the rooflights is excellent! Thank you."

For further information on Stella conservation rooflights contact Paul Trace on 01794 745445, email info@stellarooflight.co.uk or visit www.stellarooflight.co.uk

For further information about Gilling Dod Architects visit https://www.gillingdod.com

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As a board member of The Green Roof Organisation (GRO), James Beattie of Pritchard and Pritchard guides best practice within the Green Roofing industry in the UK. We work only with green roof systems which meet the high standards set by The Green Roof Organisation. Pritchard and Pritchard are also members of the National Federation of Roofing Contractors, the British Association of Landscape Industries, Builders Profile and Constructionline (BSI certified building contractors network) – collectively these accreditations demonstrate our commitment to best practice and safety.

We work with construction businesses, property developers, architects, landscape architects and private owners to deliver excellent work consistently.

Our Nationwide works currently include 'Wimbledon Grounds' with a collective blue roof application of 15,947 m2, this ground-breaking project from Galliard Homes leads the way in



sustainable development. The 'blue roofs' will be able to hold up to 1 million litres of water after intense rainfall, which will be released slowly back into drainage systems, mitigating urban flash flooding.

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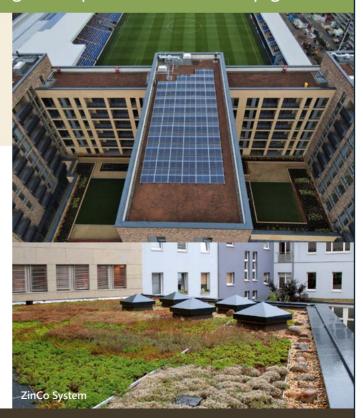


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PURPLE IN PLAIN SIGHT

HOW EXTERNAL SHEATHING BOARDS KEEP BUILDING SITES BUILDING

By Melanie Davies, Market Manager at Etex Building Performance

There's a good chance you'll have walked past many building sites and not thought twice about the fact that in place of grey tarpaulin and cement panels, they're instead covered in bright purple boards. Although often overlooked, this colourful layer plays an important role in allowing construction projects to work quickly and to a high standard.

Designed and made by Siniat using gypsum technology, this purple covering is in fact its specialist Weather Defence™ system, which has been built into many of the structures around us since it launched in 2013. This solution enables developments to keep moving despite challenges such as the weather and the safety risks of an uncovered site, while simultaneously ensuring that

projects meet today's strict building regulations. In addition, once added into the building envelope, the boards make up part of an effective insulated render façade system.

The ability to speed up construction was an important aspect of the Weather Defence boards' use at Exeter University's new Eastpark complex, which includes over 700 apartments. For this huge expansion of the university's residential capacity, it was imperative that the build progressed on schedule so that the rooms would be available for students when they started their new term.

Traditionally, protection from the elements would be achieved using engineered timber, plywood or on larger developments cement particle boards.

Not only is it good for design purposes, but its versatility makes Weather Defence boards quick and easy to fit into place.

However, these materials don't tend to survive for long, they can also be difficult to work with and are unlikely to provide the advanced safety and quality properties expected by contemporary construction.

The latest generation of Siniat's Weather Defence boards represents an evolution for this type of building component, as it can form an effective, watertight weather barrier on the outside of a frame for up to 12 months. This longevity gives the project's managers peace of mind that the site's vulnerable internals can be protected for longer, so they can be more flexible when planning their work.

With the potential to be acting as the external envelope for many months, the boards also create an effective airtight environment. As the sheathing layer stays open to vapour transmission it allows moisture to escape and means that projects can often forgo installing a breather membrane, further streamlining the work required.

Its airtight properties are particularly useful for coastal projects, where the higher humidity levels can lead to excessive moisture build up. For example, SA1 Waterfront, a large student accommodation project on Swansea's waterfront utilised the Weather Defence boards to avoid the coastal climate affecting the ongoing building work.

These boards not only create an airtight and watertight environment so trades can continue to operate, but they also play a role in defining the outline of the building. Being easy to cut, shape and bend makes it a versatile medium and it can be quickly fashioned into whatever shape the designer requires.





FTFX

This design potential was an important aspect of its use at the, aptly named, Design District. This saw 16 individual buildings designed as imaginatively as possible by eight different architectural practices, creating a uniquely creative space for businesses in North Greenwich. The ability to easily shape and craft unique outlines made the Weather Defence boards ideal for this project.

Not only is it good for design purposes, but its versatility makes Weather Defence boards quick and easy to fit into place. Installers only have to score and snap the boards where they need to divide, requiring no specialist power tools or designated cutting areas. Alternative cement particle boards don't provide the same swift installation benefits, with Siniat's solutions being up to 50% faster to install and, as they're 30% lighter, it's quicker to move them around and get them in place.

The effectiveness of using these boards is why they are coming to dominate the under-construction parts of the world around us. Many high-rises in particular are utilising this solution thanks to its fire resistance properties, as it is rated as Euroclass A1 which means that it is fully non-combustible and can be installed on buildings above 18 metres in height. Its popularity in the high-rise sector is illustrated by the 15-storey Eclipse Tower in the centre of Bristol which utilised the boards for a refurbishment project. The oval shape of the tower also showcased the board's ability to accommodate complex designs even on the outside of a multistorey building.



Once you've started noticing this colourful coating, you'll be surprised at how often it appears on the skyline. As we've seen, boards can be used for a wide variety of developments ranging from student accommodation to high-rise residential, commercial spaces and more. Foxes fans may have even recently seen Weather Defence boards protecting Leicester City FC's new training centre. So, the next time a project catches your eye thanks to a bold purple exterior, you'll see that this is more than just a visual choice and that it's in fact playing a crucial role in the overall construction.

https://etex-bp.co.uk/



PICTURE PERFORATION USED FOR A FACADE DEPICTING A FOREST

L'École Internationale Edward Steichen High School, Clervaux, Luxembourg Architects: Jonas Architectes Associés

L'École Internationale Edward Steichen is a high school in Clervaux, Luxembourg, with room for 650 students. Jonas Architectes Associés won the assignment for construction and devised not only a plan for the buildings, but also an idea for decorative facades and sun protection. RMIG ImagePerf made it possible to realise their vision.

As the school is more or less surrounded by woodland on all sides, a striking photo of a spring forest from a nature park in the Ardennes was chosen as the template for the facade image. Using perforation in various hole sizes, the beautiful image of the forest was transferred on to metal sheets.



Raw material: Aluminium EN 5005

Pattern: RMIG ImagePerf Thickness: 3.0 mm

Surface treatment: Anodising Finishing operation: Bending

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SPV COMPLETE CLADDING WORKS AT THE NEC

SPV Group- the Walsall based refurbishment specialists, have recently completed Phase 2 of the cladding works at The NEC, Birmingham. The cladding works undertaken by SPV form part of a £4.5 million transformation which will completely change the look and feel of the iconic

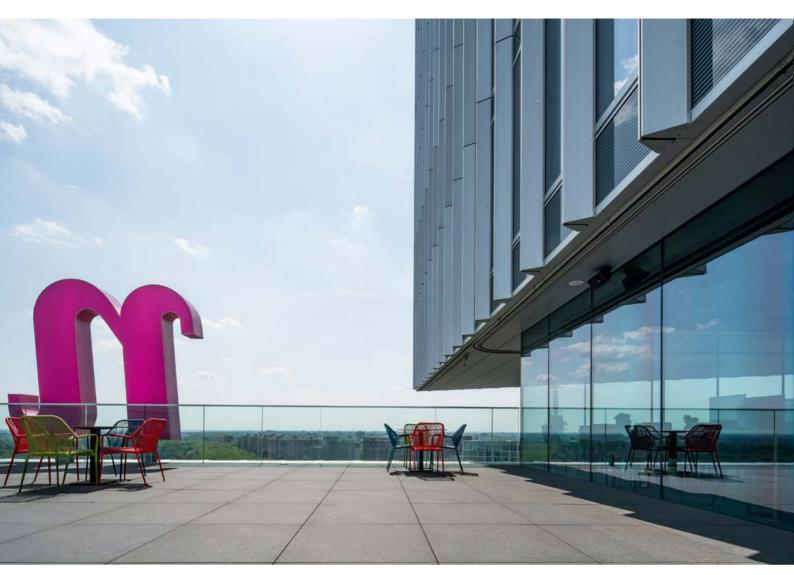


Birmingham based venue. The new design has recently seen 37 pyramid translucent structures installed – created by architects Acivico – that can be backlit to create a stunning visual effect sandwiched between the pyramids are a series of vibrant colour panels designed by global agency McCann.

The finished result using this innovative technology is visually stunning. The project has not only transformed and modernised the dated building which was originally built in 1976, but has also made the area a far more dynamic and engaging environment for all customers and set the NEC apart as one of the best leisure destinations in the country. SPV's remit was the installation of designed metal rainscreen cassette panel cladding complete with bespoke flashings.

www.spv-uk.co.uk

CERAMICHE REFIN Photos: Egbert Deboer



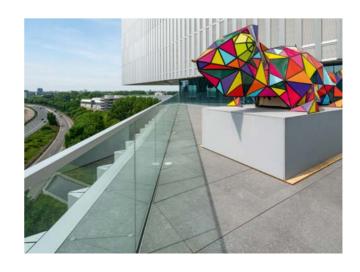
THE ITALIAN STYLE OF CERAMICHE REFIN CONQUERS AMSTERDAM

THE EMILIAN BRAND IS BACK IN THE CITY OF CANAL

After Having Embellished the Interiors of the New Headquarters of the EMA, the European Medicines Agency, the Emilian Brand is Back in the City of Canals, Decorating the Outdoor Spaces of the Nhow Amsterdam RAI Hotel with Collections Characterised by Elegance and Practicality.

In the heart of Amsterdam's Zuidas business district, in one of Europe's main creative areas, Ceramiche Refin collections have been chosen to clad the outdoor spaces of the prestigious Hotel Nhow Amsterdam RAI, designed by the famous architectural firm OMA - Office for Metropolitan Architecture.

All the hotel's terraces were paved with Refin OUT2.02cm thick tiles, chosen in the Blue Emotion Flammé Blue 90x90cm size and applied using the raised installation method on supports.



The installation of the material, which was a real challenge considering the considerable height, was handled by the Refin retailer Kerastone in active collaboration with Van Beek Tegelprojecten.

The Blue Emotionline, directly inspired by the dark tones of the Belgian Pierre Bleue, carries the charm of a sober surface that is at the same time intimately connected to the material and is able to convey a strong sensation of quality, cleanliness and resistance, instantly catching the eye of the observer.

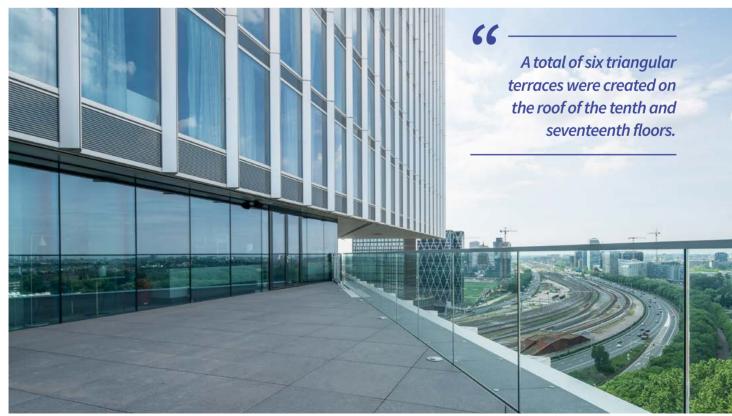
Ceramiche Refin's stoneware is able to withstand sudden temperature changes and wear, is resistant to mould and moss, and is therefore ideal for installation in outdoor environments. OUT2.0, specially designed for outdoor use, guarantees maximum resistance to stress and tensile strength and is able to fit easily into any outdoor space.

The three triangular volumes that make up the Nhow Amsterdam RAI was built on top of a transparent plinth and are rotated relative to each other. These rotations have been made above the tenth and seventeenth floors and result in triangular projections up to twelve metres long. A total of six triangular terraces were created on the roof of the tenth and seventeenth floors.

For the design of the Nhow Amsterdam RAI, OMA was inspired by Het Signaal, the illustrious advertising column located next to the RAI Amsterdam Convention Centre, made of a number of triangular blocks placed on top of each other. With a height of 91 metres, 650 rooms on 24 floors, an event space, meeting and conference rooms and a restaurant, the striking Nhow Amsterdam RAI building is the largest hotel in the Benelux.

oma.eu/projects/rai-nhow-hotel www.refin-ceramic-tiles.com/







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'THE MOVE TO UKCA MARKING OF EXTERNAL FIREDOORS'

BY WOJCIECH BROZYNA - MD OF ALUPROF UK

Since Brexit the UK now sits outside the European Economic Area (EEA) and has a trade agreement which helps businesses trade without tariffs between the EEA and the UK. Despite the increased levels of paperwork required for such imports and exports, it is 'almost business as usual'.

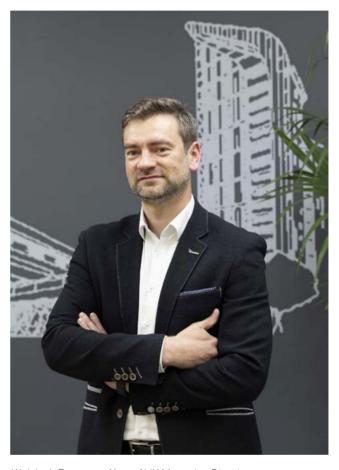
Over the last few years conformity with legislation and standards present in Europe have been a prerequisite for producing and selling any goods within the EEA. This included products produced here, in the EEA or from overseas. Known as 'CE' marking, it is applicable equally to the manufacture and sale of a paper clip to more complex fire doors and fire screens. The 'CE mark' is a certification mark that is widely used throughout the EU.

Now the UK has launched its own conformity mark, the 'UKCA mark', this means that all products produced outside or inside the UK, for UK use, must carry the new UKCA mark. Fortunately, both conformity marks CE and UKCA, can be used this year, all products sold in the UK next year, 2022, must carry the UKCA mark

In Northern Ireland, matters get a little more complicated as manufacturers have their own UK(NI) mark to comply with which must be used alongside the CE marking. Whilst Great Britain will accept the UK(NI)+CE marked products known as 'unfettered access', products manufactured in Northern Ireland only need to carry the CE mark if they are to be sold solely in the EEA. Part of the reason for the difference in Northern Ireland is that whilst Northern Ireland sits within the EEA, from the 1st January 2021, it is now outside the EU Customs Union. It must be reiterated that for products manufactured and sold in Northern Ireland, they must always carry both the CE mark and the UK(NI).

The 'product' from the 'end fabricator' must be CE marked (accepted up to the end of 2021) and/or UKCA marked, this refers to all the parts that make up the final product from various suppliers such as the framing system, glazing and hardware. This must be declared in one document and on installation it is not possible to substitute any part. The product, such as supplied in a firescreen, including doors and glazing, is supplied to site complete in a fabricated form, glazing can be supplied separately on a stillage but must be supplied by the 'end fabricator'.

The door and sidescreens, or top-lights, must fall within a single overall frame, it is not possible to declare and UKCA mark a coupled door frame to a side screen or toplight. The company installing the product on-site may be another company who has sourced the product from an 'end fabricator'. It is the manufacture of the installed product that carries the responsibility for the UKCA marking by ensuring that the installer follows detailed installation instructions. The pressure is now on



Wojciech Brozyna - Aluprof UK Managing Director

manufacturers to ensure that all their products are all reassessed through UK Approved Bodies before the end of this year if they are continuing to be sold in the UK and carry the UKCA mark.

From the 1st November 2019 ALL external fire rated doorsets MUST carry conformity marking, CE and/or UKCA (from the being of 2021), to ensure conformity to both BS EN 14351-1:2006+A2:2016 - 'Windows and doors. Product standard, performance characteristics. Windows and external pedestrian doorsets'. and BS EN 16034:2014 - 'Pedestrian doorsets, industrial, commercial, garage doors and openable windows. Product standard, performance characteristics. Fire resisting and/or smoke control characteristics.'

The Standard, BS EN 16034 Pedestrian doorsets, industrial, commercial, garage doors and openable windows — Product standard, performance characteristics — Fire resisting and/or smoke control characteristics, cannot be used on its own for CE and/or UKCA (from the being of 2021) marking purposes as it must be used in conjunction with BS EN 14351-1. External Pedestrian Doorsets can include sidescreens as long as they



MB-86EI - Fire Rated Door and Screen System

are not coupled. The required characteristics are then raised on the DoP (Declaration of Performance) by the 'end fabricator' based on the ITT data supplied by the systems company and the fabricator's own CoCoP (Certificate of Constancy of Performance). A UK approved body then have to assess the fabricator to AVCP System Level 1 and only then can the UKCA mark be attached to the product. As a result of these imposed regulations, BS 476: Parts 20 & 22 can no longer be used as fire test evidence to CE and/or UKCA mark an external fire rated doorset.

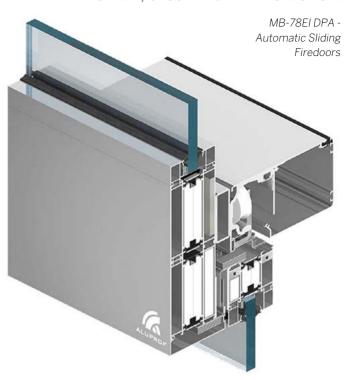
Whilst BS EN 16034 was first published in October 2014, it didn't become a harmonised standard available for use as CE mark evidence until 1st November 2016. As with all new standards, there is a co-existence period in which current standards run alongside the new standard which lasted for three years ending on the 1st November 2019

As for internal fire rated doorsets and screens we still wait for the BS EN 14351-2 'Product standard, performance characteristics. Internal pedestrian doorsets.' To be cited in the Official Journal of European Union (OJEU) which was expected to be published in November/December 2019. This means that it is currently not possible to CE and/or UKCA mark internal fire rated doorsets and screens until the harmonisation of this standard occurs. Products can still be tested to achieve stated performance and covered by third party means such as Certifire.

As aluminium remains the most widely specified material for commercial windows, doors and curtain wall, it should come as no surprise that as a leading European systems company, Aluprof offer a comprehensive range of fire rated systems.

With an 86mm frame depth, the new glazed window and door system, MB-86EI can achieve class EI15, EW30, EI30, according to BS EN 13501-2:2016. Complete with polyamide thermal breaks, the door system is ideal for use in both external or internal applications. Doorsets can be manufactured with both fixed lights and opening, single or double doors, in a single outerframe to be UKCA marked, but it must be remembered that external coupled screen assemblies cannot be UKCA marked to BS EN 16034:2014.

Furthermore, in what is believed to be a first for the UK industry, a cap-less, fire rated curtain wall system is available and has been



installed on a refurbishment development in Manchester. The project, known as 'The Core', is located at 24-30 Brown Street in the city centre and uses the 'MB-SR50N EI EFEKT' developed by Aluprof. A fire rating of El60 was required on part of the new capless, curved glass facade on the top floor. Aluprof's new system, MB-SR50N EI EFEKT, enabled the architect to have a cap-less fire rated system whilst at the same time seamlessly blending in with areas which did not require a fire rating.

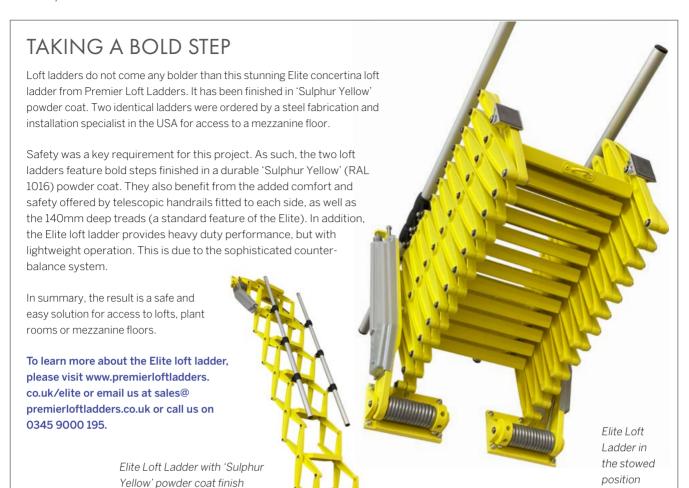
The Aluprof brochure entitled, 'Fire Rated and Smoke Exhaust Systems', explains in detail each product and rating. Aluprof systems offer some of the highest fire protection ratings in Europe, some reaching El120 - that's two hours fire and smoke protection. Each system has been tested according to European industry standards with various specialist glasses and many are fully covered by the UK's 'Certifire' certificate of approval. With the emergence of the separate UKCA and UKNI marking it is advisable that you contact Aluprof for further technical advice when specifying for use in the UK and Northern Ireland.

Since setting up the Aluprof Office at the Business Design Centre in London, the company has rapidly grown their specification influence in the UK with their high performance architectural aluminium systems. Further expansion of the companies headquarters in Altrincham now provides specifiers with meeting facilities and an extensive showroom of commercial systems to view. With overseas growth across Europe spreading into the Middle East and firm roots already in the East of the USA, the company is becoming a global player in facade supply.

Further information is available on the companies website at aluprof.co.uk or direct from their UK office in Altrincham on 0161 941 4005.







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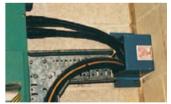
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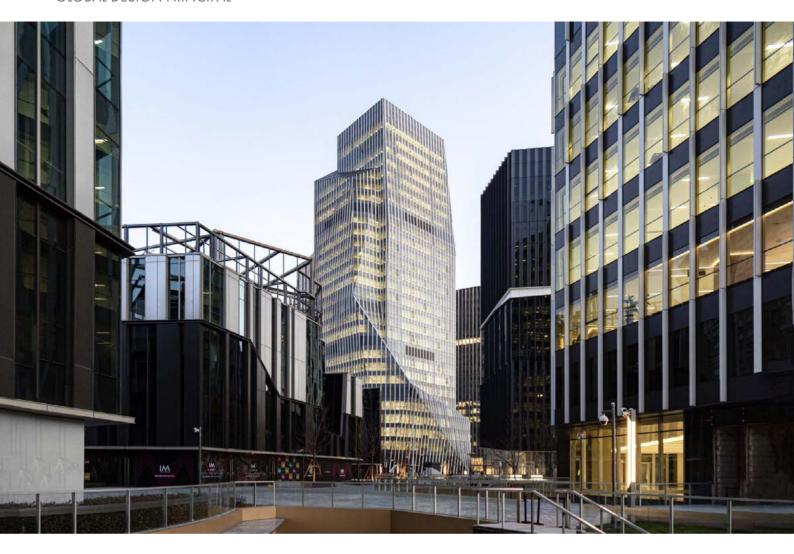












IM SHANGHAI

A LAYERED MOUNTAINOUS EXPERIENCE OF WILD NATURE

The development, located at the intersection of Kaixuan Road and Huaihai West Road of Changning District and conveniently accessible via MTR Line 10 at Hongqiao Road Station, is adjacent to the Shanghai City Sculpture Art Centre, and Redtown Art District. The site is not among any of the CBDs in Shanghai. Thus, a primary and key purpose of the development is to drive business value by attracting tenants and consumers as it integrates with the surrounding context. "Our goal is to shape IM Shanghai into a singular location where social gathering takes place within a natural setting, in an effort to promote interpersonal communication in the era of the online world." Aedas Global Design Principal Christine Lam explains.

AN INK SCROLL DEPICTING A RUGGED LANDSCAPE

Derived from the concept of mountains, the development stands to present stratified geology providing pinnacles, caves, rocks, and waterfalls in the valleys, with geometric office towers expressing as mountain peaks and rock-shaped pavilions lining alongside the busy traffic flow in between to form a dynamic streetscape. A cultural

tower, 3 office towers, 2 exhibition pavilions, and 5 retail pavilions within the development are strategically scattered on the site to form a layered mountainous experience of wild nature. Ascending office towers are sculpted with powerful tapering cuts, expressing as mountain peaks and leading the eyes to the apex. Inspired by traditional Chinese landscape painting, layering of a mountainous contour is depicted by using Void and Solid striation, which also assist in complying with the glazing to wall ratio requirement.

Along Kaitian Road features a dynamic serrated façade symbolizing fissure through the mountain, together with busy traffic flowing inbetween, a vibrant streetscape is created. Rock-inspired pavilions are featured with surface details of symbolic "cracks", and cut-out terraces on top forming unique forms for each block and allowing consumers to enjoy an uninterrupted view of the "mountainous" scenery they are in. Cave-like sunken plazas are smartly set to allow natural daylight into the basement as it enhances pedestrian circulation and connection between the northern and southern part of the development.

Cave-like sunken plazas are smartly set to allow natural daylight into the basement as it enhances pedestrian circulation.

SPATIAL LAYOUT OF MOUNTAIN RANGE & WATER STREAMS

The overall layout takes a bird's-eye view and captures a panoramic snapshot of the bucolic surrounding. An ink painting in a city emerges from the collaging of mountain peaks, stone forests, caves, courtyards, canyons that emulate varied architectural shapes. Run across the site is Kaitian Road, a fissure below which runs the traffic currently and bifurcates the rocks to occasion a face-to-face outlook between the multi-storey commercial buildings. The cultural tower, office towers, retail, and exhibition pavilions are couched in a jagged manner which contributes to its dynamic and grandiose appearance, viewed from the West. The sunken plaza that connects the north and the south creates an illusion of a cave rift, completing the silhouette of an iconic mountainous terrain.

To mitigate negative shading impacts to the environment, and provide a solution for the problem of residence insolation, the stacking building blocks are sensibly arranged through rigorous analysis on site setback, mechanical loading, and solar requirements.

FUTURE DIVERSIFIED OFFICE

The team is ahead of the curve in that we have started developing expandable working spaces, before the outcrop of co-working spaces in Asia. "As an atypical co-working office building, IM Shanghai offers more than low-cost shared spaces or desk rental services. The development, aspiring to become room for long-term connection and business growth, is designed and executed with the quality of a headquarter building." Aedas Global Design Principal David Clayton said. From glazing panels of the grand entrance to details of geometric mosaic patterns within, materials are delicately chosen to blend futuristic elements into the oriental aesthetic of the development, resulting in the sparkling charm and elegance of a high-end business centre.

The tower adopts an efficient core tube structure and employs polygonal shapes in the standard floor plan. By dividing the passenger elevator into high and low zones, the high zone serves to create a more expansive office area through the setback of the core. Architectural forms are anticipated by the inclined transferred





columns to retain usable space. In addition, the independent space provides a small-scale headquarters-like environment for start-ups, which renders it more attractive compared to other large-scale spaces. In addition, exhibition spaces within the development would serve as a value-added feature for the tenants, largely eliminating time and costs spent for sourcing and transportation for their exhibition needs.

PLACEMAKING

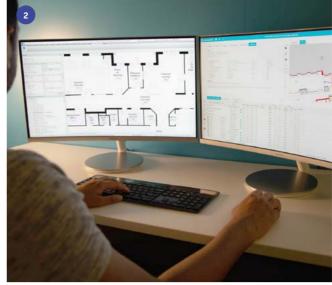
"To create a successful design and fulfill the conditions of placemaking, one has to deliver on three aspects: improve district quality, generate robust, self-contained capabilities and establish community-shared values." Guided by the tenets of urban regeneration and the requirements of increasingly connected digital cities, the design is rooted in the community. Through creating arresting visual motifs, a sense of belonging among members can be fostered, which in turn guarantees the sustainability of the community. IM Shanghai echoes and integrates with the traffic structure. The optimization of the city's interface brings in new offices, complementary commercial and service facilities. With a coordinated and systematic approach, it streamlines development and ensures the flourishing of the district.

Lead Architects: Christine Lam (Global Design Principal); David Clayton (Global Design Principal)

Client: K2 Real Estate (Shanghai Heshi Investment Development Co. Ltd)

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THE & BLANC

The & blanc is a multi-authored collection of accessories for the home, produced by Corian® DuPont.

The collection consists of 8 small size pieces with different functions for different environments.

These have been developed by Olinda Calado (Director Manager), Miguel Flores Soeiro (Art Director), Marco Sousa Santos, Toni Grilo, Gonçalo Campos, and Daniel Vieira.

These small-scale accessories, of domestic and semi-industrial production intend to show the world the potential of Corian® material, combined with the talent of some of the best Portuguese Designers. This is a perfect symbiosis of high-digital production technologies joined with care and manual finish, which results in parts with unmatched durability. It is not intended to be a mass production collection,

www.and-blanc.com



SIGNTEK

Signtek was founded in 1992 and is one of the largest signage companies in the South East.

We specialize in vehicle wrapping, large AND GRAND format printing, shop signage and BESPOKE SIGN FABRICATIONS.

Between our in house designers, fabricators, print technicians and INSTALLATION TEAM we cover the whole process in house.

This allows us to have complete control over the whole process which ensures the highest quality and fast turn around times.

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ATLAS GROUP

The construction industry is facing real challenges when it comes to innovation and adoption of digitised business models. However a pioneering team at ATLAS is solving that problem for healthcare construction.

One of the main issues holding the industry back is the so-called 'silo effect' - meaning the (i) linear nature of information being passed from silo to silo and (ii) the variety of different information formats involved.

ATLAS' innovative end-to-end digital platform (ICAS®) uses Al and parametric design to interconnect the design, procurement and construction process into a single software platform, providing customers with an 'aggregated source of truth' for their projects and delivering a unified offering that streamlines the entire process.

info@atlasgrouplondon.com www.atlascontech.com



CENTR'AL

PUTTING VORST ON THE MAP

Two buildings with amenities for the neighbourhood play a central part in the development of the Albertpool in Vorst (Brussels). These two buildings are the gateway to this district. The new Albertpool is an excellent opportunity to put this vibrant part of the city on the map in exemplary fashion.

Big public areas, such as the auditorium and the sports halls are located on the buildings' corners. The transparent and translucent façades on the intersection liven up the buildings' functions.

The functional units are stacked as compactly as possible. Beneath the covered outdoor spaces is the entrance to the buildings. The local restaurant on the ground floor has a view of the new town square and is connected with the foyer inside.



The transparent and translucent façades on the intersection liven up the buildings' functions.



This foyer spreads over the different floors of the building and as such functions as a perfect meeting place for the users of the complex. Even the roof terrace can be used for different activities, such as sports.

Manufacturers: Geberit, Kingspan Insulated Panels, Rodeca, Aco, Led Linear, RENSON, CDM, DOX, Dauvister, Diamond, Labelfacade, Luso Rochas, Metalmek, PAN-ALL, Schueco, Stoncor, Verstraete Decor, Vice Verda

Design Team: Julie Van Huynegem, Evert Crols, Kenny Decommer Dirk Engelen, Sven Grooten, Karol Grygolec Valentin Piret, Domien Wuyts

Landscape Architects: OMGEVING landscape architecture

Structure Engineers: UTIL Struktuurstudies Acoustic Consultants: Bureau De Fonseca

Contractors: InAdvance

www.b-architecten.be















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NATURAL, ECOLOGICAL AND ENDLESS DESIGN POSSIBILITIES

The passion for design has always been an integral part of Mafi. With the Carving Edition, this company from Austria brings well known and also new patterns to the individual planks of natural wood floorings. The real star of the collection is the design itself. Depending on the decor the arty pattern extends up to 15m2 on the floor before it repeats itself. The development of the carving line is far from finished, because the future can also bring custom-made designs which can be introduced into the timber. This represents a great opportunity for companies, via a still largely unknown channel, to effectively bring forth their own corporate identity. Also, in private projects these natural wood designs can create stunning accentuations and highlight specific areas. Subsequently, mafi created seven different standard designs to demonstrate the possibilities available within the Carving idea.

www.mafi.com



TIMBER FRAME CONSTRUCTION THE NORBORD WAY

Timber frame construction brings many benefits to the housebuilding industry, including quicker build times, quieter assembly, fewer deliveries to site, cost savings and a reduction in defects. Underpinning these advantages, Norbord's engineered wood-based panel products are an integral part of many timber frame systems. They are regularly seen as the number one choice for all aspects of home building, be it the structure, flooring or interior. Norbord's high quality boards are available in a wide range of grades and, with minimal finishing required, speed up construction. The products are incredibly versatile. offer value for money and have good environmental credentials with a low carbon footprint as all are made in the UK. In fact, all Norbord panel products are net carbon negative and so can help the builder achieve sustainability targets.

www.norbord.co.uk



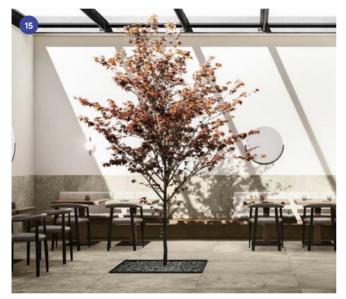
ALICE POOLE ARCHITECTS

Founded in 1984, Alice Poole Architects is an Award winning practice where Architecture and Interior Design are combined to achieve a unified scheme with great attention to detail, using the interplay of light, shapes, colours and textures to create imaginative, stimulating and high quality environments for both domestic and commercial clients. Alice Poole Architects does not have a 'house' style but treats every project as unique, with an emphasis on achieving the best spatial and design solutions to meet each client's individual requirements. All types and sizes of commissions are welcomed which can encompass new-build as well as the extension, alteration and refurbishment of existing buildings, and Alice Poole Architects have special expertise in Listed Buildings and Conservation Areas.

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SUPPORTING THE INTERIORS MARKET

Smiths Building Systems manufacture and distribute a wide range of products within the interiors sector including partition walls, internal glazed doors and tile trim products.

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As a result of our R&D studies, we continue to add new features to our patented product range relating to the Quality, Cost and Solution triangle.

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BRING HARMONY TO INDOOR &

OUTDOOR SPACES

15

Providing both indoor and outdoor spaces with a calming, natural beauty, the new Lavaredo tile collection from CTD Architectural Tiles will bring harmony and aesthetic splendour to hospitality, commercial, retail and residential projects alike. Offering all the energy and grace of Luserna stone, the collection provides architects, specifiers and designers with an elegant surface choice that is guaranteed to impress.

Available in a contemporary colour palette of White, Beige, Grey and Anthracite and three finishes, one of the unique selling points of the Lavaredo collection is that it offers a matching 120 x 120 size in both the 20mm porcelain paver and 10mm option, ensuring maximum utilisation.

CTD Architectural Tiles 0800 021 4835 www.ctdarchitecturaltiles.co.uk



CINDERELLA INCINERATION TOILETS

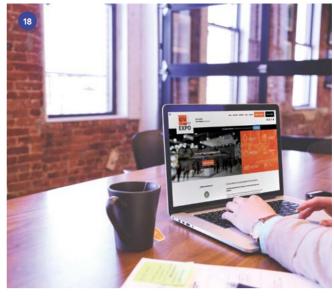
Cinderella incineration toilets burn biological waste at high temperatures, leaving only an insignificant quantity of fine, harmless ash, amounting to the equivalent of about one teacup for four people during one week of use. The toilet may be used around 70 times before emptying is required.

Cinderella incineration toilets are currently installed by over 60,000 users worldwide.

Waste is burned in an integral combustion chamber. The harmless gases from this combustion are dispersed through a vent pipe. In contrast with other toilet systems, incineration toilets eliminate all waste on site without the need for connection to the main sewer or a septic tank.

www.leesan.com.











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www.barrisol.com/uk



FLOORING INDUSTRY COUNTS DOWN TO CATCH UP, AT CFJLIVE

The flooring industry is preparing for CFJLIVE - its first official event in over a year - which takes place on Thursday 1 July. The free-to-attend global exhibition is the UK industry's first ever virtual event, bringing together over 100 global exhibitors. It will be broadcast live from a main stage - at FITA's training centre in Loughborough - and from exhibitors showrooms, offices and factories around the world. Fast registration can be accessed now at www. cfliveexpo.co.uk

CFJLIVE will air between 2-7pm on Thursday 1 July. On arrival, visitors will enter the main stage and a list of session rooms, enabling them to move around the event. Within exhibitor session rooms, minievents will be hosted, including live seminars from technical experts, demonstrations and factory tours, with audio, video and text feeds.

www.cfjliveexpo.co.uk



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Water penetrating cavity wall masonry above stepped and staggered gables is controlled using preformed approved Cavitrays. The only system awarded European Technical Approval is manufactured by the UK specialist Cavity Trays Ltd. Supplied with a ready-shaped flashing bonded to a DPC tray that adjusts to suit cavity width being formed, the Type X Cavitray ensures compliancy and compatibility. Unlike alternatives, the tray incorporates an integral guide and barrier that partially extends under each flashing to aid correct alignment and placement whilst preventing water discharge at the inboard end. The preformed Type X cavitray is available with lead or synthetic flashing options, and the specifier may select short flashings to dress over soaker or secret gutter upstands, or long flashings to dress directly over appropriately shaped tiles. The approved Type X cavitrays, from the longest-established specialist.

www.cavitvtravs.co.uk



VECTAIRE

Vectaire has three new models in their vertical whole house heat recovery range. To ensure a comfortable user experience, the Midi, Maxi and Maxi Plus are now available with advanced acoustic attenuation. They are lined with superior sound deadening materials for really low sound levels (the sound pressure levels are down to 14.4, 13.2 and 14.4 dBA respectively). The efficiency and performance remain the same. All these "AT-BY" models are complete with summer bypass and frost-stat, and commissioned via an integral LCD. Functions, including trickle, purge and boost speeds for each motor, boost speed over-run time, the time delay before the boost speed kicks in, holiday mode and night-time boost - all easily adjusted. Products are SAP PCDB Listed and manufactured in our own factory in the UK.

www.vectaire.co.uk













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Elevator Shaft Design Giving You Sleepless Nights?

JORDAHL® JAI ELEVATOR INSULATION SYSTEM BY J&P Reduced Noise Emission from the Elevator Shaft

JORDAHL® JAI Elevator Insulation is used to acoustically decouple elevator guide rail and machinery connections, while providing secure load transfer to concrete structures. The system significantly reduces impact sound transmission through elevator shaft walls and reduces disruptive noise levels experienced by building occupants in the vicinity of the elevator shaft. Safe and adjustable connections to new concrete shaft walls are provided by dynamically rated hot rolled JORDAHL® Anchor Channels JTA (ETA-09/0338).

- Average of 18 dB reduction in the frequency range 63 500 Hz
- Effective acoustic alternative to the thickening of shaft walls, saving space and cost
- More predicable acoustic design for the performance of the elevator shaft.
- Better living conditions for building residents located in the vicinity of the elevator shaft
- Suitable for new and existing structures

Ready for a better night's sleep? Please call the friendly sales and engineering team at J&P or visit us at www.jp-uk.com

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