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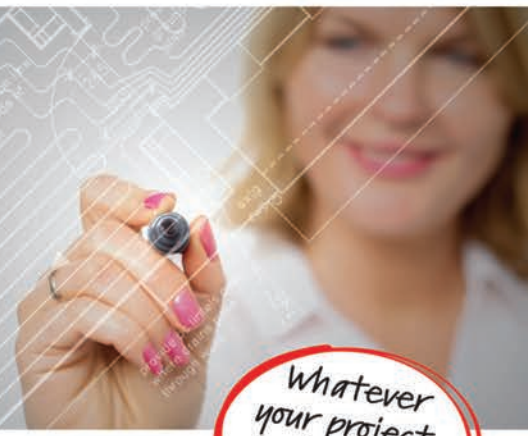
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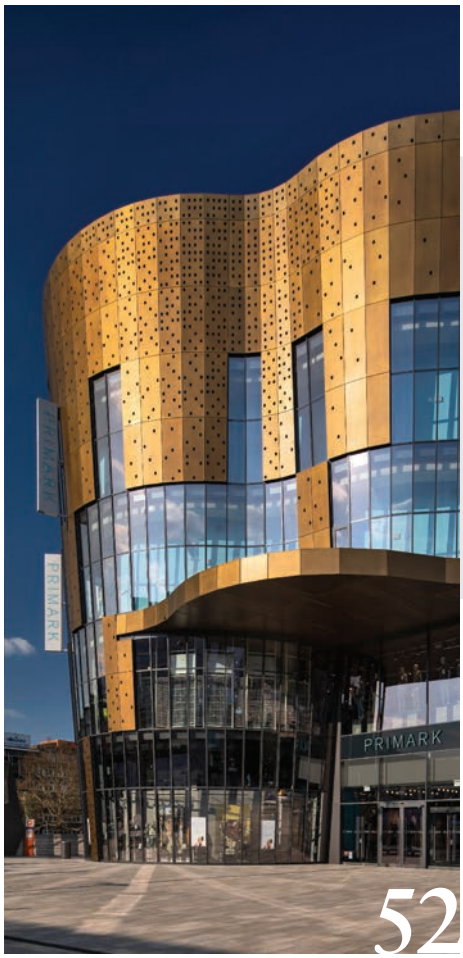
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Annual subscription costs just £48 for 12 issues, including post and packing. Phone 01435 863500 for details. Individual copies of the publication are available at £5 each inc p & p. All rights reserved

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FROM THE EDITOR



The 'Living with Beauty' report by the Government's Building Better, Building Beautiful Commission, is the final part of the legacy of the controversial conservative philosopher Roger Scruton, who died last month. The document lays down over 100 policy recommendations to planners and government, including planting two million trees on streets.

For new housing developments, it proposes that developers are incentivised to show a "commitment to quality," receiving fast tracked approval for good design. However the report did not pinpoint a specific menu of beauty criteria to aim for, but critiqued new developments for not being as beautiful as Georgian or Victorian counterparts, for example because cities are currently designed around cars.

Its approach is uncompromising, but because of that, its aims are certain to be compromised. It proposes a "new development and planning framework, in which beauty will be "the benchmark that all new developments should meet." The definition is broad: "It includes everything that promotes a healthy and happy life, everything that makes a collection of buildings into a place." This could be a double-edged sword, meaning beauty remains in the eye of the beholder/planner, but also perhaps supports a wider idea of beauty than merely established aesthetic conventions.

The disconnect between architects, as the arbiters of context-sensitive design quality, has led to a drop in quality, says the report, with developments "cut off from the leadership of the architectural profession" – not news to *ADF* readers. They often don't get as far as being castigated for "pastiche" by using traditional idioms, which the report says "makes architects' task harder; they must either work without a determinate style, or invent a style anew for each commission, rather than being able to fall back on an inherited set of refined solutions."

There are wide-ranging community-oriented proposals for fixing the problems. But which of these are realistic, when we have built on average 130,500 homes per year over the last decade – well under half the 300,000 homes per year that the Government wants to see? Modular housing is being seen as the panacea, and a raft of housebuilders are now jumping on board, some larger players even building their own factories turning out prefabricated 'plug and play' homes.

How do these fit into the aims of 'Living with Beauty'? There's no reason why modular homes cannot be made as context-friendly and aesthetically pleasing as their Victorian counterparts. However this is of course subjective, and developers' logistical urges, perhaps for lower-pitched roofs to get under road bridges, may not chime with what planners demand. This has recently plagued affordable housebuilder Ilke Homes' efforts to create more practical modular solutions.

The real world of putting the numbers on the ground required to a good, sustainable standard – and a layout that works for residents – is a far cry from the higher, some may say idealistic aims of the commission. A real-world approach is however crucial. *ADF* will be surveying readers on their views on offsite in coming weeks; the results should be interesting.

James Parker
Editor



ON THE COVER...
A new pier has opened for the Thames' main river taxi which provides new public space as well as vital transport infrastructure. The design features a folded steel roof that helps bring light into the space.

Cover image © James Brittain
For the full report on this project, go to page 62



SUSTAINABILITY

Foster + Partners introduces carbon measurement as part of green 'manifesto'

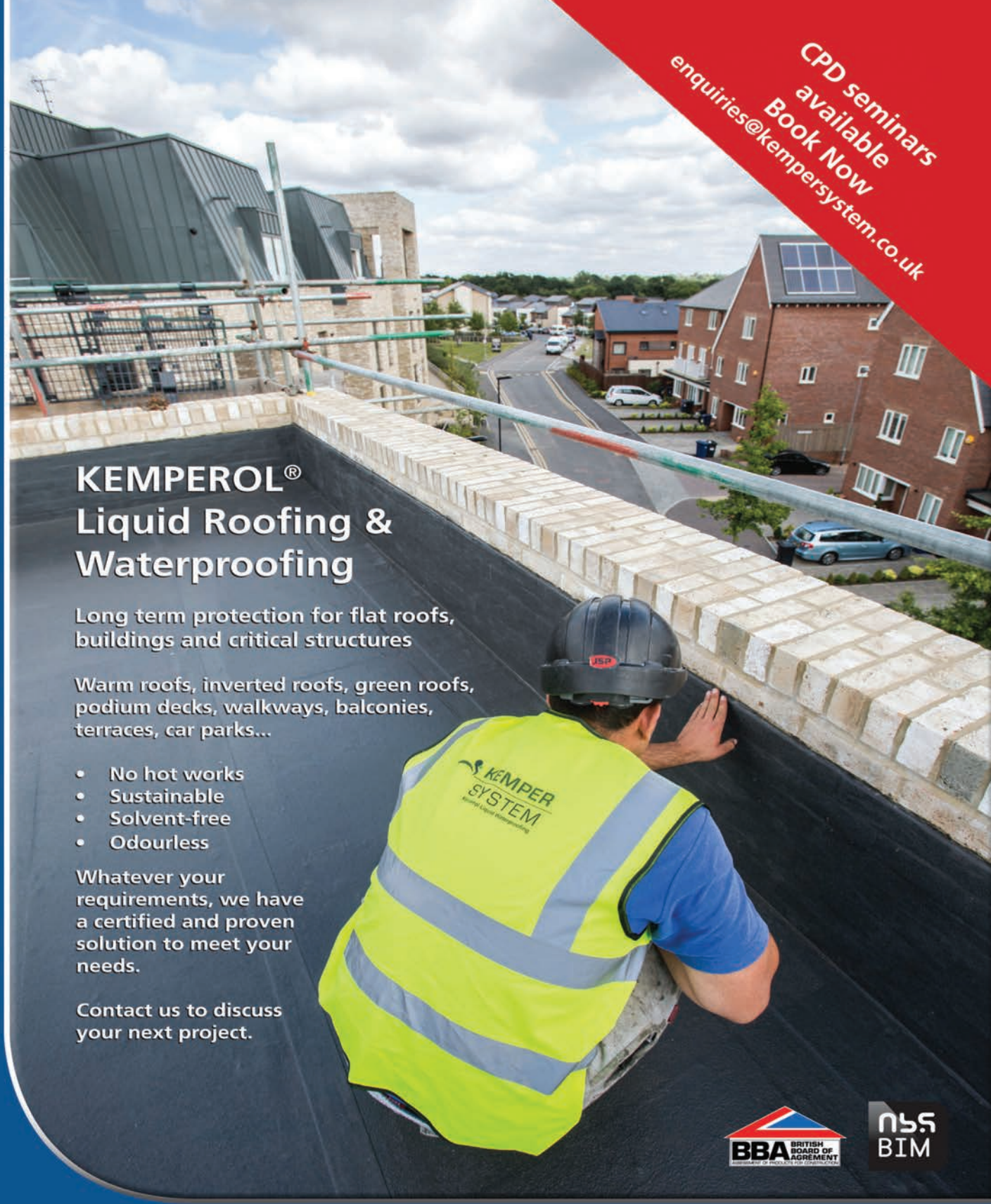
Foster + Partners have launched their sustainability manifesto, revealing its methodology for greener projects and demonstrating the practice's "ongoing commitment towards achieving the goals of the Paris Agreement." Outlining a holistic sustainable approach, this methodology will look to enable the measurement of embodied and operational carbon in each project.

Over the last five years, Foster + Partners have created a system that can determine carbon emissions at every project stage. This process "gives further insight into the different aspects that affect the environmental impact of a project," and provides tools to "mitigate and lower" their carbon content.

As part of COP25, the practice has been invited to present this methodology and tools by UNFCCC, UN Environment and the European Commission at their respective events in Madrid. It is also represented at the UK Pavilion, demonstrating sustainable and green innovations at the event.

Applying the manifesto's principles to its own operations, Foster + Partners have been purchasing 100 per cent of its electricity from renewable sources for the past three years. In addition to this, the practice is also fully offsetting its annual global carbon emissions associated with transport (airline and vehicular), as well as those associated with heating and waste from its London campus.

Applying the manifesto's principles to its own operations, Foster + Partners have been purchasing 100 per cent of its electricity from renewable sources for the past three years



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SCULPTURE

Snug Architects' 'Wall of Answered Prayer' sculpture submitted for planning

A planning application has now been submitted for The Wall of Answered Prayer, a new sculpture planned for a site in Coleshill, near Birmingham.

This piece of public art, designed by Southampton-based architectural practice Snug Architects, will consist of one million bricks – with each brick representing an "answered prayer." The architects' interpretation of The Wall depicted as a Mobius strip won top spot in a global competition launched by the Royal Institute of British Architects in 2016.

Beating a field of 133 entries from 25 countries, the Snug winning concept was first finalised in a field of five, before being selected as the standout design in May 2019 by a judging panel of "industry experts and national influencers."

The application for the landmark structure was submitted to North Warwickshire Borough Council, which validated the submission in early January. The documents outline the project's associated visitor centre and public open space, including a car park and landscaped gardens, where visitors will "be able to relax and reflect on the relevance and power of prayer," said the architects.



With construction due to be complete in 2022, The Wall of Answered Prayer will sit close to both the M6 and M42 and rise 50 metres into the sky, to be seen by an estimated 500,000 journeys each week across the two motorways, as well as the new HS2, and flight paths in and out of Birmingham airport.

Construction for The Wall of Answered Prayer is due to start in December 2020.

GRENFELL INQUIRY

Grenfell Tower architects appointed despite having no experience of high-rise, inquiry told

The architects of the reclad of Grenfell Tower, Studio E, were appointed by the Royal Borough of Kensington and Chelsea to the project despite being "a little green" on the technical expertise required, the inquiry into the tragedy was told.

Building Design reported that Stephanie Barwise, counsel for survivors and residents, told the inquiry that the practice was chosen "apparently on the grounds of speed and convenience alone," as it was already working on a school and leisure centre at the foot of the tower. She accused all of the professional firms involved of displaying incompetence on fire safety.

Studio E had designed the adjacent Kensington Academy and Leisure Centre (KALC), but Barwise claimed that the architect, council and Grenfell Tower's management organisation (TMO) shared the belief that the tower's "shabby appearance detracted from its new neighbour." She suggested aesthetic concerns were dominant in the drive to reclad the building, and that the success of the KALC "remained the council's priority throughout."

The inquiry was also told that the normal 'Ojeu' procurement process was circumvented in the project, which "would have ensured transparent competition, and should have resulted in the most suitable and qualified professionals being appointed."

The project's architect Neil Crawford was also previously accused, in a statement on behalf of bereaved survivors and residents, of signing off design drawings from the facade contractor which did not comply with Building Regulations. The statement also alleged that he did not receive adequate support from Studio E.

SUSTAINABILITY

Grimshaw sets out 'ambitious' environmental strategies

The chairman of Grimshaw, Andrew Whalley, recently laid out an ambitious approach to the firm's environmental strategy in his opening keynote at the World Architecture Festival in Amsterdam. His lecture, titled 'Zero,' outlined Grimshaw's commitment to an ambitious start to the new decade in which all of Grimshaw's international operations and studios will try to operate on a net zero carbon basis, as well as a goal for all of its design work to be net zero carbon ready within the decade. In order to accomplish these goals, Grimshaw have appointed a global practice leader of sustainability – Dr. Paul Toyne.

The appointment of Toyne will "help build the capacity and skills needed to fully understand the challenges humanity faces in mitigating and adapting to climate change," said the firm. He will oversee Grimshaw's transition to operational carbon neutrality as well as advise and lead on best practices for each studio. Examples of operational objectives include offsetting business travel and energy use associated with each studio, as well as setting reduction targets for the future.

Grimshaw's new environmental strategies will meet the target for carbon neutral operations by the end of 2020 – 10 years ahead of schedule, according to the firm.



Dr. Paul Toyne, Grimshaw's global leader of sustainability



AWARDS

Tall buildings designers given lifetime awards

The Council on Tall Buildings and Urban Habitat (CTBUH) has announced the recipients of its two Lifetime Achievement Awards for 2020 as well as the winners of the 10 Year Award of Excellence.

The CTBUH Board of Trustees will award the Lynn S. Beedle Lifetime Achievement Award to Moshe Safdie, founder of Safdie Architects, whose "contributions to international architecture and design make him a clear choice for the honour," said the council. The Fazlur R. Khan Lifetime Achievement Award will be awarded to Wuren Wang, vice chairman and general manager of CITIC Heye Investment.

Moshe Safdie is an architect, urban planner, educator, theorist, and author. Over a celebrated 50-year career, he has "explored the essential principles of socially responsible design with a distinct visual language," said CTBUH. "He has been recognised as an individual who has made an extraordinary contributions to the advancement of tall buildings and the build environment," it added.

Wuren Wang is responsible for the development, construction and operation of China Zun, the tallest building in Beijing. "He has been recognised for his demonstrated excellence in technical design and/or research that has made a significant contribution to the design of tall buildings."

CTBUH will also recognise five projects in the 10-Year Award of Excellence, which will be featured in the 2020 Tall + Urban Innovation Conference in Chicago in April, where an overall winner will be chosen. "This award gives an opportunity to reflect back on buildings that have been completed and operational for a decade, and acknowledge those projects that have performed successfully long after the ribbon-cutting ceremonies have passed," said CTBUH. The winners include the Burj Khalifa in Dubai, Guangzhou International Finance Center, the International Commerce Centre in Hong Kong, Marina Bay Sands in Singapore, and the O-14 in Dubai.

The CTBUH also announced that Javier Quintana de Una, principal at IDOM UK, has become a fellow of the organisation, which commented: "He has actively contributed to the success of the CTBUH United Kingdom Chapter, serving as Chapter Board Member since 2015 and Chapter Chair since 2017.

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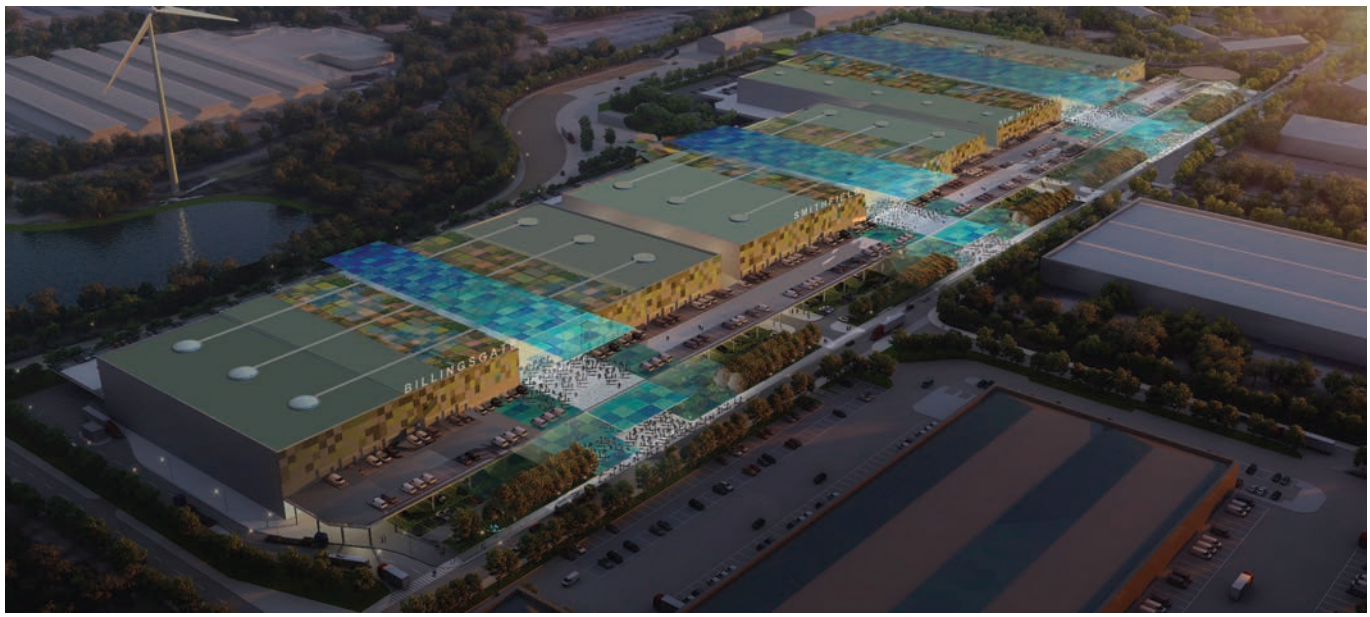
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RETAIL

Proposal co-locates major London markets



Chetwoods Architects' vision for co-locating Smithfield, Billingsgate and New Spitalfields markets to a new location in east London for The City of London Corporation, has been unveiled. Creating a "21st century wholesale food location for London and the UK," the scheme looks to provide tenants with modern facilities in a location that offers room for growth.

"The development will be built with the most sustainable materials available, using the latest environmental technology," said the architects. The buildings will be designed to achieve BREEAM Excellent, and the plans will try to limit the upfront energy during construction and when operational.

The aim of the project is to create a facility that places the health and wellbeing of occupants and workers at its heart. The early schematic layouts (shown above) will form the basis of an outline planning application to the London Borough of Barking and Dagenham.

The design of each market supports wholesale, retail and process driven activities while allowing for future flexibility to meet demand as required. A multi-deck yard will provide parking spaces for vans and cars at the front and rear, which allows for the separation of vehicles with HGV deliveries taking place to the rear at ground floor level.

A green corridor to the west of the site links the scheme to the existing public transport network and the River Thames. From this route, visitors will be able to access three individual market entrances. These entrances lead to an atrium, which provides daylight to the market below and connects to an entrance to the east of the site. All three atria will also serve as renewable energy generators, harnessing solar power through photovoltaic panels. The schematic layouts have also been designed to adapt to the ever-changing demands of the retail market, with the potential introduction of a mezzanine level providing space for a future retail offering.

BOOK

100 Ideas That Changed Architecture

A new book published by London-based publisher Laurence King "chronicles the most influential ideas that have shaped architecture." The publication looks to provide the reader with detailed history of the subject.

Starting with the basic building components of "door, window, column and beam" and the classical orders, the book explores historical movements such as the Picturesque and Beaux-Arts, modern materials such as steel and reinforced concrete, and technical innovations such as the lift and electric lighting, through to modern movements such as Universal Design and Deconstruction.

This book is written by Richard Weston, an architect, landscape designer and author, who was professor of architecture at Cardiff University.

Arranged in a "broadly chronological order," the ideas are presented through "informative text and arresting visuals, exploring when each idea first evolved and the subsequent impact it has had, up to the present day."

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RESIDENTIAL

Delve Architects complete first residential scheme, in south London

Delve Architects have completed their first residential project, in Nunhead, South London, a renovation of a Victorian house which has been shortlisted for a New London Architecture 'Don't Move, Improve' Award.

The "somewhat unloved" house has been "completely transformed," said the architects, to provide a contemporary and open space at the rear, while retaining a more traditional feel at the front. The "transition from old to new" occurs by stepping through a bespoke handcrafted bookcase, which leads into the open, contemporary kitchen space. Bifold doors open over a bespoke window seat so the property's owners can appreciate views of the 60 ft garden.

In all rooms there is extensive attention to detail, said Delve, who designed all the bespoke joinery in the house, creating a "real feeling of craftsmanship." The original fireplaces have been retained, the cornicing reinstated and original ceiling roses refurbished, "to preserve some of the traditional character."

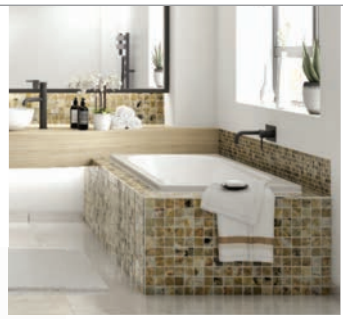
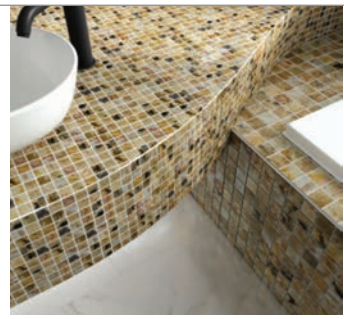
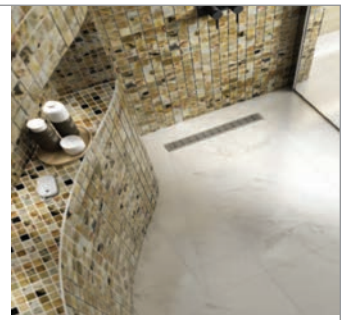
The design had a deliberately "restricted palette" of materials, comprising dark cladding, birch ply, and concrete. Materials have also been creatively used and selected to stay within budget and provide a "tactile feel," such as the rubber flooring and exposed ply in the kitchen – Delve designed all the kitchen units. Sheet materials have been used and specially cut in the bathrooms rather than traditional tiling and Corten planters and benches in the garden will naturally rust and provide visual interest.

On the first floor the three bedrooms have been completely reconfigured. The new master suite (with ensuite shower) has been moved to the rear of the house with garden views, while the other two bedrooms share a new bathroom. A skylight has been added above the stairwell and a utility area integrated within the landing space.

First time buyers, Kit and Imogen commented on their new home: "Delve worked tirelessly, turning the original plans inside out to come up with an inventive layout that thoughtfully reconsiders how to use a terraced house, whilst respecting its character." They added: "The architects created a journey through the house that takes you out of city living, and into the magic of garden and open space at the back. Our favourite room is the music room at the core of the house – they have breathed new life into a part of Victorian terraces that often becomes just a walkway to the back of the house."

Edward Martin, director at Delve Architects comments: "We set up the firm to do something a bit different and I think this project exemplifies this. The idea of the extended walk through bookcase and music area provides an interesting transition between the old and the new, and hopefully visitors when they step through will get their own 'Narnia' moment."



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EDUCATION

Design for major education campus in Ebbsfleet submitted by LEP

Lee Evans Partnership's (LEP's) design for an 'education campus' in Whitecliffe, Ebbsfleet Garden City – has been submitted for planning to the Ebbsfleet Development Corporation by developer Henley Camland. The campus plans will offer more than 2,200 places to nursery, primary and secondary school pupils, as well as serve as a community sports facility.

The proposal for Alkerden C of E Academy includes provision for a nursery, a new two-form-entry primary school, and an eight-form-entry secondary school; plus a dual-use community sports centre with external sports pitches and associated ancillary facilities for the emerging local community. The sports facilities will be aimed at supporting more than 500 users at a time, and will be designed to Sports England specification. The combined schools and associated facilities will occupy an 11.1-hectare site, making it one of the largest educational facilities ever to be built in Kent.

The scale and design of the scheme will reference the site's industrial and agricultural heritage, with the brickwork of the primary school drawing on the original reddish-brown quarry topsoil, and that of the secondary school drawing upon the underlying chalk landscape. A landmark 'corner' has been incorporated into the design to serve as a "public-facing showcase" for the work of students at the secondary school. The site has been arranged along a central spine, which connects the two schools with the external sports facilities, as well as with the wider local community. The primary school classrooms have been arranged to be north-facing, allowing the provision of a greater number of external south-facing play areas. Self-contained 'cloistered' spaces will also be included where students can meet and interact.

The primary school and nursery will accommodate 446 pupils aged 3 – 11, while the secondary school will provide space for 1,680 students aged 11 – 18 years and will include a specialist-resourced provision for pupils with autism.

LEP's design looks to incorporate sustainable methods of construction as far as possible, opting for cross-laminated timber (CLT) as the principal structural material in the primary school. "This will reduce the amount of embodied energy in the building, as well as minimising the quantities of VOCs used in the construction process," said the architects.



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BARS & RESTAURANTS

Mosaic gives basement eatery an airy South Asian feel



Mosaic Architecture + Design have given Ka Pao, a £1m restaurant project housed in the basement of the recently converted Botanic Gardens Garage in Glasgow's West End, a South East Asian look and feel to complement its menu.

Run by Scoop Restaurants, the firm behind the Kelvingrove restaurant Ox and Finch, Ka Pao – which accommodates 120 covers – with a separate bar area, has been designed by Stuart Black, head of interior Design at Mosaic, who was also responsible for the interiors of Ox and Finch.

The restaurant features existing and reclaimed white ceramic brick walls with a full elevation of crittal style glazing running down the length of the restaurant, which has led to the space being "unusually bright and airy for a basement unit," said the architects.

Commenting on the contribution made by Mosaic, Jonathan MacDonald, owner and chef, said: "There were various technical challenges that came with fitting out a new restaurant located in a basement. As the client, we had a clear vision of the vibe that we wanted to create in the space and how we wanted the restaurant to function operationally. Mosaic took on our brief and we're delighted with how Ka Pao has turned out."

EDUCATION

Bond Bryan completes 'Heartspace' for University of Sheffield

Architects Bond Bryan's latest project for the University of Sheffield – the Engineering Heartspace – has now reached practical completion.

The building sits beneath a dramatic undulating glass roof structure, "providing a unique space for the whole faculty," said the architects. The quadruple-height atrium, inserted between the Grade II listed Mappin Building and the 1885 Central Wing, offers highly-serviced laboratories, offices, and a cafe – as well as providing a collaboration space for students and staff from various departments.

A new entrance connection to Portobello Street provides an additional destination on the pedestrian route that links a range of campus facilities including the Students' Union, the Information Commons (Learning Centre) and the university's 'Diamond' building.

The contemporary curved roof design contrasts with the existing formal brick buildings, said the architects, "floating across the tops of the existing roofs and creating a clear distinction between the old and the new." The design takes visual cues from the Mappin Building's original 'Star of David' ventilation outlets with its own interlocking triangular glass and solid roof panels. The new triangular steel 'tree' columns are also deliberately positioned to frame key features of the existing buildings.

Matt Hutton, director at Bond Bryan, said: "We are all thrilled to see this project finally come to fruition; it has been an extremely challenging scheme from inception through to completion." He added: "It's a once in a lifetime opportunity to be part of a project so rich in heritage to the local area and so innovative in ambition: the simple concept – of having a curved highly-engineered roof adjacent to the robust/rational brick walls and slate roofs of the historic existing buildings – is about celebrating the engineering of both the past and the present, inviting the building's users to examine both in more detail. This is what conservation should be about – engaging with the user and the wider public and bringing these buildings back to the prominence they deserve."



Keith Lilley, director of estates and facilities management at the University of Sheffield, commented: "This has been an incredibly ambitious and demanding project, but it was absolutely worth it. Two of our oldest buildings have been fully refurbished and brought up to the high standards required for today's learning and teaching environments, whilst still retaining their historical significance. And the central atrium provides a stunning setting for a whole new space which will significantly enhance the university experience for students and staff."

The development has a total gross internal floor area of around 12,400 m² of combined new build with refurbished and reconfigured existing space.

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MIXED USE

Morris+Company gets go-ahead for Camden mixed use boutique hotel

Architects Morris+Company have secured planning consent for the redevelopment of 115-119 Camden High Street, in a scheme consisting of an 80-room hotel, plus three social rental homes and 150 m² of retail space.

Morris+Company said it "set out to establish a benchmark in collaborative design and engagement," working closely with client Demar Holdings, the hotel operator and local authority planning and conservation officers. This would ensure the scheme not only met the needs of the developer but also of the local authority and the local community, resulting in the provision of much needed social-rented homes."

Joe Morris, founder of Morris+Company commented: "We are excited to be delivering a building of finely crafted brick work, rooted in its context, with relief, texture, and materiality which seeks to enhance the sense and vibrancy of Camden High Street." He added: "Our main aim during the design development was to add delight and meaning to this key corner of the high street whilst being respectful of the finer grain of the surrounding buildings." The design is a result of a fruitful collaboration between Morris+Company and experts in hotel design Axiom Architects, and of the "close engagement of the local authority planning and conservation officers during the entire design process."

Located within the Camden Town conservation area, the scheme complements the impressive Victorian and Edwardian red brick parades along Camden High Street. The proposal "has been articulated in response to the two different street expressions that converge at the site," said the architects. The new five storey, 2320 m² scheme creates a "bold and confident addition to the neighbourhood."

Sage green perforated metal will accompany the proposal's "carefully considered composition" of red brick detailing, concrete and filigree metalwork, providing a "vibrant contrast," and referencing the windows of the Bowman



Brothers Department Store, said the architects. The scheme's decorative brick detailing will extend to the ground floor entrances, enhancing the "dynamic internal entrance sequence into the retail and hotel," whilst improving pedestrian flow across the busy junction.

RESIDENTIAL

White Arkitekter's 200-home Dagenham scheme approved

Barking and Dagenham Council has approved plans for over 200 homes designed by White Arkitekter, as the first phase in the long-term regeneration of the Gascoigne West estate in Barking, East London.

The "landscape-led" design features a mix of building types, including mid- to high-rise blocks and smaller, terraced townhouses, connected by public squares, local greens, semi-private gardens and private courtyards. Over 60 per cent of the homes will be affordable, with rents starting from £134 a week.

Pat Hayes, managing director for council-owned developer Be First commented: "Redeveloping the estate is a major step in the regeneration of the borough." Arranged over three blocks, the form of the buildings and their placement on the site "facilitate active use of the outdoor communal space – including a new children's play area," said the architects. Each new home also has access to a balcony, terrace or garden.

The proposal "ensures a futureproofed design based on resilience and strategic water and energy use," said the architects. The targeted carbon reduction of 40.2 per cent beyond Building Regulations strongly influenced the architectural design, which incorporates photovoltaic panels, a high-performance building fabric and "advanced specifications." The project also includes electric car charging points and over 360 new cycling parking spaces.

Phase 1 of the Gascoigne West regeneration marks White Arkitekter's second consented scheme for Be First, following the approval of plans for 526 modular homes on the neighbouring Gascoigne East estate, in June 2019.

Linda Thiel, head of the London studio at White Arkitekter, who have also been appointed overall 'Design Guardian' for Gascoigne West said, "We're very proud of being involved in this important project. We take our responsibility of planning sustainable, equitable cities very seriously, so we're delighted to team up with Be First and effect change together."

Phase 1 of the redevelopment is due to start on site in January 2020, with completion expected March 2022.

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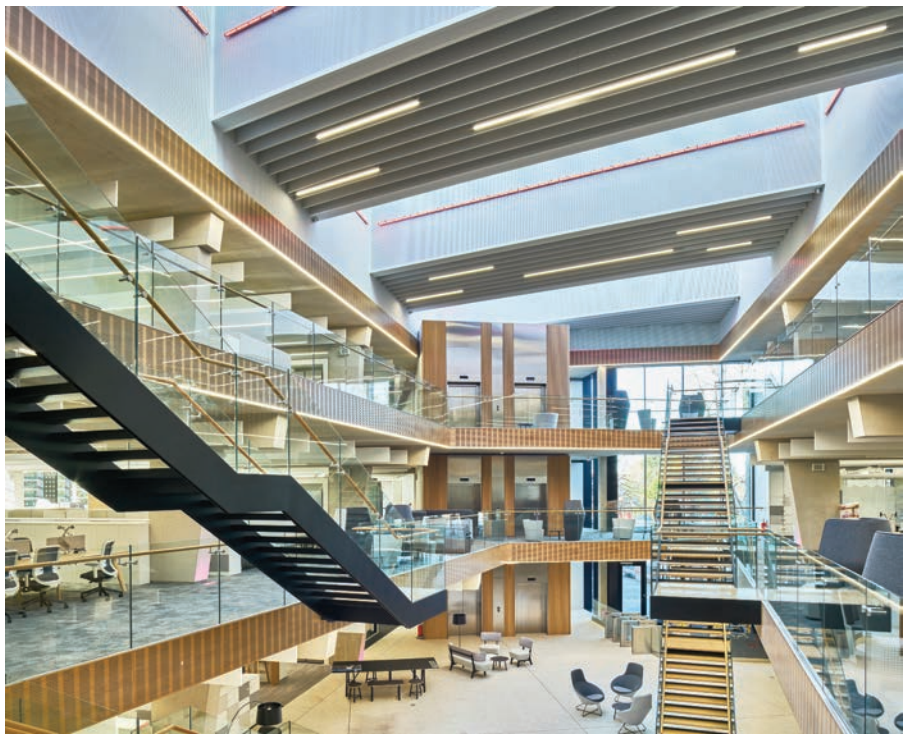
PRP JV with Hamiltons Architects for Knightsbridge hotel

The Royal Borough of Kensington and Chelsea has granted planning permission for a 120-bedroom hotel on Pavilion Road in Knightsbridge, London, which will be designed by PRP + Hamiltons Architects on behalf of Beaumont Properties.

PRP and Hamiltons Architects have formed a joint venture to provide architectural services on the project, which will cost £70m and replace a multi-storey car park with a luxury boutique hotel and public facilities, including a business centre, a lounge, a restaurant and a bar. A separate fitness club, restaurant and 23,000 ft^2 of retail space will be provided at ground and basement level.

The architects commented: "This development will breathe new life into the area with a high-quality, contextually-oriented contemporary architectural design that will attract people, and provide a new destination for visitors and the community into this undiscovered corner of Knightsbridge. They added: "The site, which falls outside the Hans Town Conservation Area, provides a unique opportunity to deliver a contemporary building that is both innovative and contextual."

The public realm at street level will be designed to "encourage the public to approach the building and engage with the wide range of public facilities offered by the hotel that will be visible through the highly glazed external wall." With the planting of four semi-mature trees and the provision of planted gardens on its extensive roof terraces, the structure "will appear to its neighbours, visitors, and occupants as a tranquil oasis in this busy part of London," said the architects.



COMMERCIAL & WORKPLACE

Atkins opens new office at historic Epsom site

Atkins has moved into a new 10,000 m^2 office in Woodcote Grove, Epsom, on the same site where the company was first based in the 1960s.

The office, which was designed by Atkins' architects, provides a modern, efficient and flexible workspace for 1,300 multi-disciplinary staff. Featuring open layouts, interlinked with meeting and relaxation areas as well as a series of quiet pods, the building has been designed to promote collaboration, while the various communal areas, cafeteria and forum area offer employees a "range of informal places to connect and relax," said the architects.

Sustainability played a role in the design, with the building positioned to maximise solar benefits, ventilation and natural light. The building was also developed in line with the "highest sustainability standards," and has received a BREEAM Excellent rating and an A-rated Energy Performance Certificate (EPC).

HBD, formerly known as Henry Boot Developments, were chosen as delivery partner from the design stage, with Speller Metcalfe appointed to deliver the building shell and other Category A works. With Faithful+Gould as team lead, Modus Workspace were chosen to manage the Category B fit-out and installation of fixtures, furniture and equipment to complete the building ready for its opening. Faithful+Gould also project managed the movement of staff from the old facilities on the Epsom Estate to the new site.

Atkins took a "strong inter-disciplinary approach" from the early stages of the project, "relying on a collaborative effort from over 20 disciplines across its business," including architects, project management, building services, sound and lighting engineers, archaeologists and ecologists.

From their new office, the team in Epsom will continue to work on projects such as the Heathrow Airport Expansion, Aquatar and the Thames Tideway Tunnel.

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SITE LINES

Addressing a national problem

Nicolas Maari of multi-disciplinary firm Pellings looks at the challenges for designers around providing interim accommodation for the homeless

Homelessness is an ongoing and growing problem, with the number of homeless people increasing by a third between 2012 and 2018. There are at least 320,000 homeless people in the UK, according to research by housing charity Shelter.

Since the Homelessness Reduction Act came into force in April 2018 councils in England have a legal duty to find a person somewhere to stay if they are homeless and a duty to help people at risk of losing their home. However, despite this, there are increasingly more people sleeping rough on our streets, which means the need for housing continues to grow. In particular, there is a big demand for interim accommodation (an alternative to B&B's, hostels and nightly-paid private housing) that offers a lower cost, and better-quality option.

Over the past year we've seen a rise in requests to work on projects for this vulnerable demographic. While there is widespread public support for getting homeless people into suitable accommodation, a number of challenges around design and planning, as well as objections from the local community, continue to present themselves.

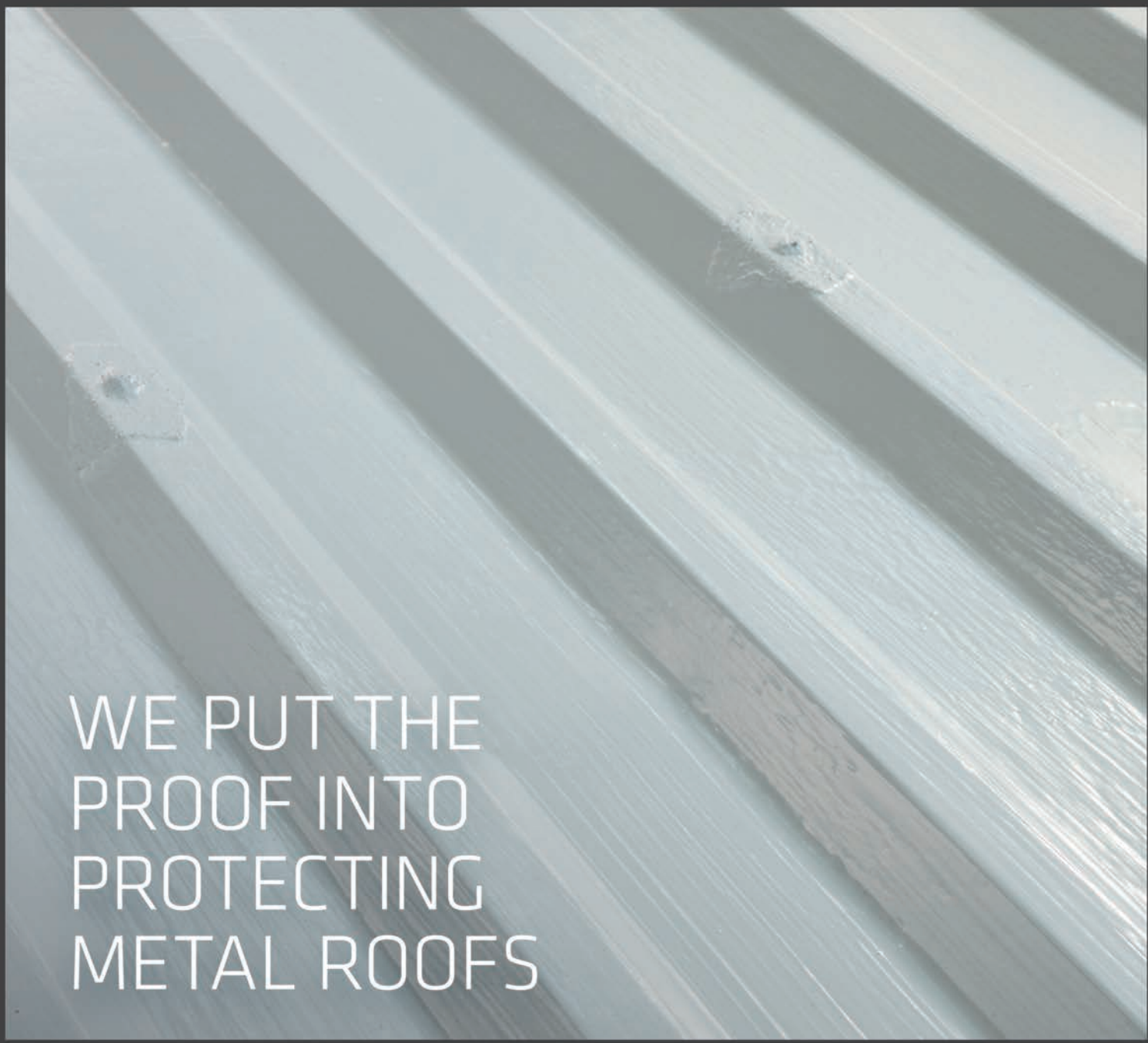
The crux of the problem is around planning consent. While councils are trying to tackle the issue of interim homes for the homeless, there is no suitable planning class for this type of housing. HMO housing standards or general needs housing do not fit this category, which means there is a lack of planning guidance and usually no real precedent. Progress therefore, is largely down to the discretion of the planner. This makes the job of an architect a tricky one, but what makes the situation sadder is that planning issues can often stall the build over a long period, meaning more people remain homeless, thus exacerbating the problem.

If asked what advice I would give to another architect when designing for interim accommodation for the homeless, the main thing would be to remember that we are not trying to achieve award-winning architecture. We are trying to solve a problem





HERTFORDSHIRE
Pellings is acting as architects up to planning and then as employer's agent for 74 new temporary accommodation units in a conservation area



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CHALLENGES
The Hertfordshire project is surrounding by general housing, and came up against many objections from residents which have delayed the programme

We came up against a number of challenges on a current project located in the county of Hertfordshire. Our role is as architects up to planning and then as EAs, for 74 new temporary accommodation units located within a conservation area, which is surrounded by trees and general housing. The project involves the expansion of an existing facility, which already houses temporary accommodation, but is no longer fit for purpose.

We have been working on this scheme since late 2016, and local objections, in particular from residents, have continually delayed the programme. While supporting the concept, they do not want this type of facility on their doorstep, so they have raised every concern possible – from anti-social behaviour to the appearance of the building and even car parking and traffic, although the individuals making use of the accommodation don't tend to have access to cars.

Following four pre-application meetings and consultations with neighbours, all manner of surveys – including traffic surveys – were commissioned to alleviate their concerns. We also had to undergo verified views to show how the building would look in its environment in the summer and winter (when the leaves have fallen), so the public could be reassured they wouldn't be able to see the building from their back gardens.

The design itself had to be robust and low-maintenance with traditional brickwork and render construction – flat roofs and panel systems were out of the question. We also had to include an on-site office facility so the property could be managed on a day-to-day basis.

While this project is still ongoing, it is in complete contrast to another one we are working on, on the south coast in Kent, where speed is the number one priority. The scheme involves three sites, including two brownfield sites of unused garages and one greenfield site.

Working with our client to get this up and running as quickly and efficiently as possible, we began by looking at how we could adapt existing modular blocks, but are now providing a bespoke modular solution with a volumetric system to deliver the units fast. Just three months in and planning consent is imminent. As with the Hertfordshire scheme, the finish must be robust, to allow for the wear and tear that comes with the rapid churn of residents. Again, we will be using tough materials with the 6 metre x 3 metre units clad in brick before they are delivered to the site for assembly.

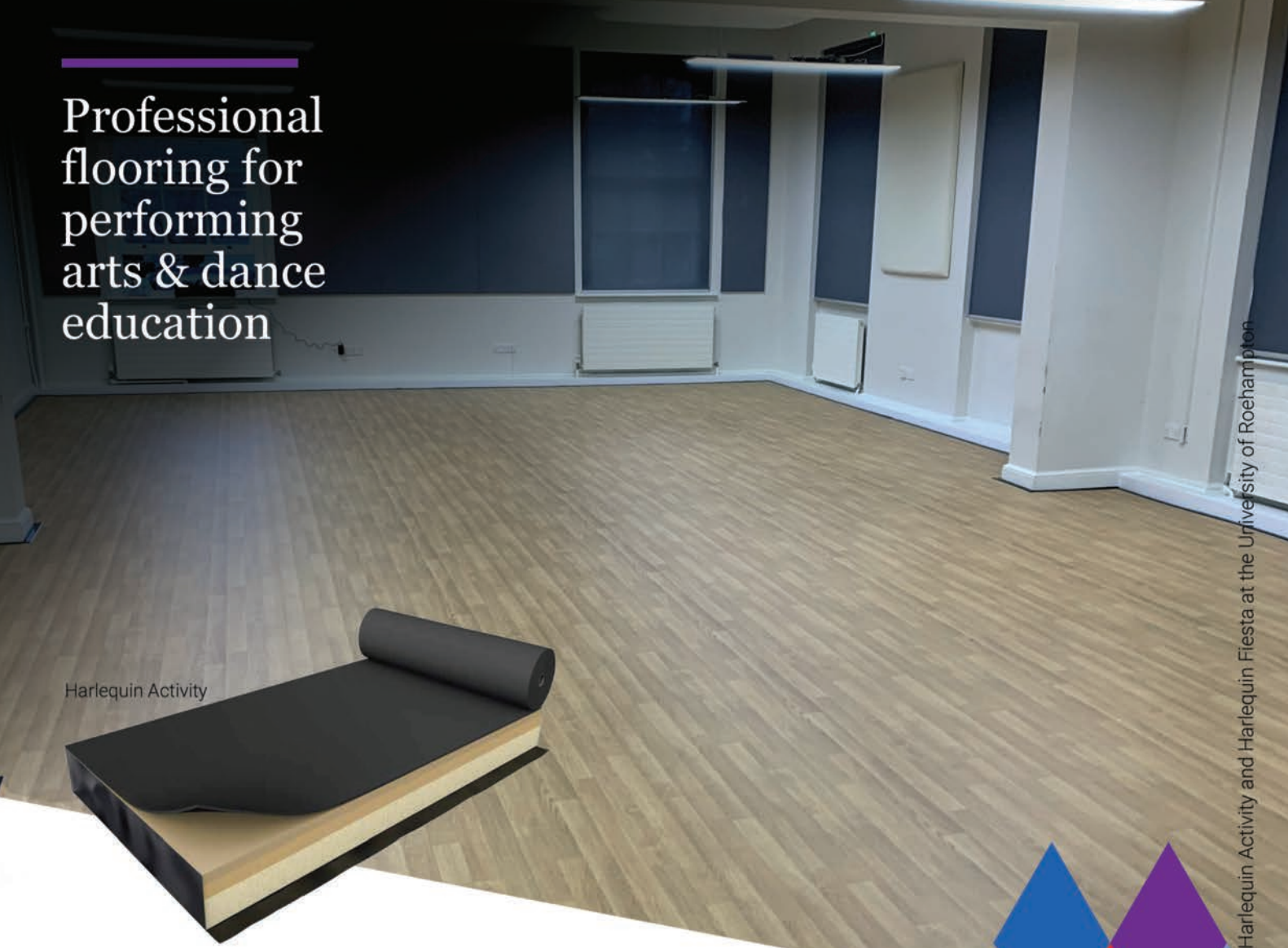
If asked what advice I would give to another architect when designing for interim accommodation for the homeless, the main thing would be to remember that we are not trying to achieve award-winning architecture. We are trying to solve a problem. It is certainly worth looking at what has been done before to get an idea of what is achievable. It is also important to understand exactly what the local authority's objectives are, so their requirements are fulfilled. Robustness, speed of delivery and low maintenance are common needs for interim accommodation.

Local authorities have a duty to provide homeless applicants with interim accommodation, however, lack of planning guidance and objections to these schemes hamper the provision of these much-needed facilities. This coupled with fears among the public and the stigma surrounding the type of people who may be housed in these properties, means getting the green light on planning is an ongoing challenge.

While this problem remains, we at Pellings continue to work as effectively as possible with our clients to get temporary households up and running on sites that would otherwise remain dormant. It might not solve the homelessness crisis, but at least interim accommodation can provide a temporary respite.

Nicolas Maari is senior partner and head of architecture at Pellings

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ASK THE ARCHITECT

Alberto Basaglia, co-founder of Italian firm Basaglia + Rota Nodari Studio, answers *ADF*'s questions on what influences his designs, the importance of balance, and sustainability

WHY DID YOU BECOME AN ARCHITECT?

When I was a kid, I made a sofa-exercise-bike for my grandmother from a bicycle wheel. She told me I was a genius like Leonardo; it's a memory I cherish.

I suppose I was pushed in my decision to become an architect from my creative mind mixed with very strong rational approach. I have always been fascinated by the idea of channelling my creativity into creating something concrete and useful.

WHAT DO YOU LIKE ABOUT IT MOST?

Many phases of my work are stimulating. The creative phase is the most beautiful; the first moment when I start a new project, the sheet is white, everything is possible, and my mind starts to fill with stimuli and I try to connect ideas and imagines to create the pictures. The design phase is fun too; when I look for the best technical solutions to carry out the work with the owners of the companies, and the builders. The most amazing thing though is the moment when you see the work you had imagined finally made, and above all to see it after a few years – if it is 'ageing' well.

WHAT IS THE HARDEST PART OF YOUR JOB RUNNING A PRACTICE?

It's really hard to find the balance between a variety of things: the idea, the project, the costs, the timing, the customer's expectations, the user's expectations, the market's expectations, my expectations, etc. Sometimes I feel frustrated if I struggle to find a solution. Finding the right balance is the essence of my job; beauty is balance. When everything comes together, it's a beautiful feeling.

HOW IMPORTANT IS SUSTAINABILITY FOR YOU CURRENTLY VERSUS OTHER PRIORITIES, AND HOW ARE YOU PROMOTING IT IN YOUR WORK?

It is useless to deny that every human activity is against sustainability, and even more so the industrial production that I deal with in design and architecture.

We as designers have the responsibility to think of solutions that make architecture and products sustainable in relation to the environment, but also economically – to replace consumer products that are not.

Recently my studio designed the new headquarters for furniture maker Filippi 1971. Alongside the client, we decided to create it inside an existing building instead of creating a new building occupying a green site. For another furniture firm, Diemmebi, we designed a chair for the community sector that has the CAM (Minimum Environmental Criteria) certification, affordable and consumer-friendly.

For five years we have also been collaborating with Wood From Nature To Things – a group of 50 companies specialising in the use of wood, which promotes the use of the sustainable material.

WHAT HAS BEEN YOUR PROUDEST ACHIEVEMENT SO FAR?

My studio has received some awards, but what makes me most proud is to see that my design or architectural works are appreciated. In the coming months, a soccer table that I designed will be included in a prize catalogue of a well-known supermarket operating in northern Italy. It is fantastic because this catalogue always features Italian design icons, and it means that your work is appreciated on a large scale.

Once, during the inauguration of a building that we designed in a consolidated urban context, a man who lived there told me that he had the feeling that the building had always been there. This is something that made me proud because the building is typologically and semantically different from the context, but at the same time it compares it in a natural way and it is a design intention that was immediately understood.



Every material influences my design; they all have their own characteristics, and that is a source of inspiration

Alberto Basaglia



Filippi 1971 headquarters building, Berbenno, Italy


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WHAT IS YOUR BIGGEST CHALLENGE AT THE MOMENT?

We are going to be working in the camper/caravan sector, where there is still very little design innovation. But new environmental regulations in the automotive sector require new solutions. We will work on the interior design of a camper for a new Finnish brand in collaboration with the Filippi 1971 Style Centre, which specialises in innovative materials. It is an interesting challenge because it is a design sector we have never worked on, and we will have to find innovative solutions taking into account aesthetics, technique and costs.

DO YOU FIND TECHNOLOGY IS INCREASINGLY DRIVING HOW YOU DESIGN?

My projects, both in terms of architecture and design, never disregard the material and production processes, these are an integral part of the project. Technological innovations and new materials bring new solutions, but my design approach doesn't change.

WHAT'S YOUR FAVOURITE MATERIAL CURRENTLY?

I am fortunate to work with many materials: wood, metal, plastic, glass, fabric, and polyurethanes. It is difficult to say which one I prefer. Every material influences my design, all of them have their own characteristics; and that is a source of inspiration. I'm working on an entire collection made with an innovative material Vitter – which is made from paper.

HOW DOES BUILDING DESIGN INFORM PRODUCT DESIGN AND VICE VERSA?

Having the 'forma mentis' of an architect is useful to bring a rigour to a project that must last over time. Vice versa, the principles of industrial production help us architects to focus on the essentials and simplify construction processes. I like to think of my objects as if they were architecture, and my architectural designs as if they were objects.

DO YOU HAVE 'INTERNATIONAL AMBITIONS' AS A PRACTICE?

Our products are already distributed in many countries across the world. I would love to create architecture or projects overseas, as well as collaborate with companies from other countries. It would be very stimulating to deal with cultures that are different from mine.

HOW CAN YOU SEE ARCHITECTS' ROLES CHANGING IN THE NEAR FUTURE?

As I said before, the role of designers will be increasingly important in a world that will have to completely change in relation to climatic emergencies. In this sense my role as a designer has changed a lot in recent years; more and more, in every project, I have to take different needs into account to co-ordinate groups of people specialised in different fields: structural engineers, technicians, certifiers, installers, environmental specialists, landscapers, specialists in energy containment.

The role of designers will be increasingly important in a world that will have to completely change in relation to climatic emergencies

DO YOU THINK THAT CLIENTS HAVE AN ACCURATE IDEA OF WHAT YOU DO?

Absolutely not! I think it is one of the greatest difficulties for an architect to explain how long and how much work is behind a creative project. On the other hand, I must say that we have been collaborating with some of our client companies for more than 10 years, and when a relationship of trust and respect for mutual work is established, interesting projects can emerge.

WHAT ARE YOUR GOALS FOR 2020?

Organise my work in order to have more time to work on the creative part of my job. ■

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ALIBABA HEADQUARTERS, SHANGHAI
FOSTER + PARTNERS

Foster + Partners have won the competition to design the new headquarters for Chinese e-commerce firm Alibaba in Shanghai. The building has been designed to "showcase the company's working culture to the public" – situated at Xuhui Riverside, it provides views of the Huangpu River and the Pudong CBD. It is formed around a central space that opens up to create a large public urban room. This design creates an "active social core," with viewing terraces overlooking the central space as well as the building's principal entrances opening onto it. The building is also designed to be extremely transparent, allowing people a glimpse into the world of Alibaba as well as preserving views to the outside. The project will utilise offsite production for quality control, reducing wastage, and minimising on-site operations to create an efficient construction programme.



AXIOM DESERT HOUSE, CALIFORNIA
TURKEL DESIGN STUDIO

Turkel Design Studio has designed a new private apartment in Palm Springs, California. Designed and built according to prefabricated construction systems and technologies, Axiom Desert House is characterised by a pillar and beam construction with a large open room that opens onto a private courtyard. "The house is a modern oasis that offers perfect transitions between indoor and outdoor spaces, making it ideal for life in the desert, while it can be replicated through sites and variable climates," said the architects. The architects experimented with materials, including Canaletto walnut handles on the guest bathroom sink, and a sculptural fan made of carbon fibre in the lounge.



POWERHOUSE MUSEUM, AUSTRALIA
MOREAU KUSUNOKI/GENTON

French architecture practice Moreau Kusunoki and Genton (as local architect) have designed the new Powerhouse Museum in Sydney, Australia. The architects said: "We envisage the new Powerhouse as a 'hyper-platform,' a building with many functions and limitless potential. The design will open up towards the river, providing public space and creating an open 24-hour precinct." The project will include 60 residential studios, which will look to attract leading researchers, scientists and creatives from across Australia and around the world, while also providing ongoing opportunities for students. The project is said to be the largest investment in arts and cultural infrastructure since the Sydney Opera House.



HALFTIME, GERMANY
COBE

Danish architecture firm COBE have designed a new multi-purpose building for sports brand Adidas for their corporate headquarters in Germany. The new building, named Halftime, totals 15,500 m^2. As well as a canteen for all HQ employees, the building contains meeting rooms, a conference centre and a showroom, where the company's brand ambassadors can stop by to see the latest new designs, collections and ideas. The project features a 8,650-square-metre rhomboid roof structure consisting of V-shaped concrete beams and covered in glass. In fact, a third of the roof consists of skylights, which allows daylight to enter the building throughout. The concrete beams, each 16 metres long and weighing 28 tonnes, add up to a total length of 3.2 kilometres.



HIGHLINE PLAZA, NEW YORK
SWA/BALSLEY

SWA/Balsley are designing Highline Plaza at Schuylkill Yards, a mixed-use redevelopment adjacent to Philadelphia's 30th Street Station. The architects said the design for the new public plaza will transform an underutilised surface parking lot into "a vibrant landscape of connection." Part of a master plan to create a new mixed-used district, the half-acre plaza will be programmed with a variety of elements including outdoor dining, pop-up retail, performances, and other public gatherings. The design is inspired by the site's rail legacy and industrial heritage, with a "dynamic ground plane" mimicking the geometries of a railyard and interpretive art installations. Highline Plaza is part of Schuylkill Yards' first phase, which is scheduled to begin construction in 2020.



BAO'AN BAY TOWER, CHINA
JAEGER KAHLEN PARTNER

Jaeger Kahlen Partner is one of the joint winners at the international competition for Bao'An Bay Industrial Investment Tower in Shenzhen, China. The office building is a set of "shifting volumes" that break the tower into a series of terraced stacked blocks. The tower is located in a developing neighbourhood that allows access to Shenzhen Bao'An International Airport and the cities along the Pearl River Delta. The floors of each building volume are connected by spiral staircases, forming "vertically cohesive work environments." On this project, Jaeger Kahlen Partner worked with Transsolar KlimaEngineering to develop and incorporate several practical and efficient sustainability techniques into the design.

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NEW BLUE ROOF CPD FROM OPTIGREEN



Green roofs are already known for their ability to attenuate water, but this can now be enhanced with blue roof technology. Here the roof not only stores water but is also able to delay water discharge after a high intensity rainfall event and release it at a pre-determined rate. **Optigreen's** newly approved RIBA article *'Blue Roofs: what are they and how are they used'* looks at how this can be achieved practically and why this type of specification is likely to become more commonplace in the future.
0203 5899 400
www.optigreen.co.uk

BAL LAUNCHES THREE NEW RIBA-APPROVED CPDS



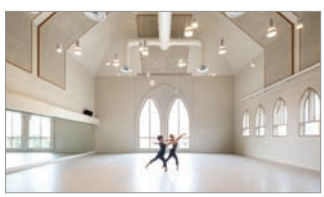
BAL – market leaders in full tiling solutions – have launched three new RIBA-approved CPD Seminars for architects, specifiers and contractors. The CPDs provide attendees with up-to-date technical information, highlight British and European Standards and provide guidance on problem solving solutions and how to avoid potential failures. *'Tiling to Internal Walls and Large Format Tiles'* aims to inform and educate about the key issues in choosing and installing large format tiles and panels. Key topics include design considerations, best practice, H&SE considerations, adhesive and grout selection, joint widths and movement joints. *'Tiling to Wet Rooms'* navigates the various elements of wet rooms and shower design by looking at key practical steps including potential issues, designing the rooms, solutions to common issues, identifying waterproofing products and systems that work together. It aims to provide a step-by-step guide to avoid problems associated with wet areas including leakage, inadequate waterproofing and poor installation methods. The third and final new CPD – *'Tiling to Swimming Pools'* provides an in-depth discussion on types of swimming pool, design considerations, screeds and renders, tile types, adhesive and grout selection and movement joints, as well as information on pool chemistry and pool filling and emptying, taking into account British and European standards and current codes of practice drawn from key industry bodies.
01782 591120
www.bal-adhesives.com/specifiers/riba-approved-cpds

WATERPROOFING BELOW GROUND STRUCTURES TO BS 8102:2009



Delta Membranes RIBA-approved Double Point CPD *'Waterproofing Below Ground Structures to BS 8102:2009'* seminar considers the various challenges faced in structural waterproofing and how to overcome them with the guidance of current Standard, BS 8102:2009. Topics include Waterproofing options (the forms or types of waterproofing and their placement), correct selection of materials formulated for various applications, understanding the importance of using a waterproofing design specialist, and focuses particularly on reducing risk.
01992 523 523
www.deltamembranes.com

THE IMPORTANCE OF SPECIFYING THE CORRECT PERFORMANCE FLOOR



As part of **Harlequin's** commitment to protecting the health and wellbeing of dancers and performers, its RIBA approved CPD explains why specifying the correct floor for dance and performing arts is critical to the longevity of a performers career. Using comprehensive data and case studies, Harlequin outlines the key considerations when specifying a performance floor and look at the important contribution the floor makes to performer health and safety. It explores how to ensure you specify the right performance surface.
01892 514888
www.harlequinfloors.com

KINGSPAN CPD OFFERS EDUCATION IN BB101



Kingspan Insulation has released a new, RIBA accredited CPD providing advice on how designers can use insulation specification to meet the thermal comfort requirements within Building Bulletin 101 (BB101) – Guidelines on ventilation, thermal comfort and indoor air quality in schools. The CPD provides a comprehensive overview of the document, which was extensively revised in 2018 and aims to achieve healthier learning environments. Amongst the key changes are stricter requirements for indoor air quality and a new adaptive approach to how thermal comfort is assessed.
01544 387 384
www.kingspaninsulation.co.uk/cpd

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NEW ARRIVALS

Rounding up the latest movers and in-house appointments across the industry







JOEL ISELI, ANYA GORDON CLARK, ED MURRAY
DEXTER MOREN ASSOCIATES

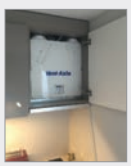
Dexter Moren Associates (DMA) have announced a trio of senior promotions for the new year. The promotions form part of the practice's continued succession plan, with a collective aim to "empower future leadership." Joel Iseli, who recently returned to the UK after several years in Paris working on boutique hotels and larger projects, has been promoted to associate. Joel is a qualified architect with experience in interior design in the hospitality sector, and has worked on international projects for leading brands including Novotel, IHG and La Reserve. Anya Gordon Clark, an interior designer with experience in both high-end residential and hospitality sectors, has been promoted to senior designer. Anya is leading pitches for DMA on various hospitality projects across the world, from Georgia to Kent. Ed Murray has been promoted to associate. Ed is an accomplished project architect who has worked on a wide range of hospitality projects for various international brands.



MARK O'NEILL
EDGE ARCHITECTURE + DESIGN

Mark O'Neill joins Edge architecture + design as technical principal – director. Mark has over 35 years of experience in design, DM and project delivery, supporting clients, developers, contractors and consultants, across a wide range of construction projects. His experience spans across both the public and private sectors. Previous roles include principal and managing director of his own practice, operations director and subsequently Dubai office director for Design International, technical director for Plus Architects, and operations and design director at Peppiatt. Mark will "provide trusted adviser services, help clients define their needs, meet project expectations and engender collaboration across the lifecycle of project design and delivery."

Vent-Axia supports landmark report



Ventilation manufacturer **Vent-Axia** welcomes the latest joint report by the Royal College of Paediatrics and Child Health and the Royal College of Physicians on the health impact of indoor air quality (IAQ) on children and young people. "At Vent-Axia we are committed to improving indoor air quality and so public health" explains Jenny Smith, Head of Marketing at Vent-Axia. Since 1936 Vent-Axia has been working hard to provide ventilation solutions to improve IAQ for households. Vent-Axia's Sentinel Kinetic mechanical ventilation with heat recovery system boasts an impressive 94 per cent heat recovery.

0844 856 0590 www.vent-axia.com

SterlingOSB Zero transforms i-Jump



i-Jump is Mansfield's popular trampoline park frequented by great numbers of ecstatic children and their accompanying guardians. When designing the interior, i-Jump needed to create a practical and easily managed space while still being fun. In order to achieve this, i-Jump has covered the walls using **Norbord's** revered SterlingOSB Zero. Sterling OSB Zero is a precision engineered wood panel product that is suitable for use across a great range of construction projects. It is the UK's only manufactured OSB that doesn't contain any added formaldehyde making this an ideal choice for somewhere like i-Jump.

www.norbord.co.uk

Domus Ventilation returns to Specifi



For the second consecutive year, **Domus Ventilation** – part of the Polypipe group – will be exhibiting at the Specifi Building Services roadshows throughout the year. The first two events are in Leeds on the 18th March and Bristol on 1st April, with a further four being held later this year. Domus Ventilation will be exhibiting its range of high-performance mechanical ventilation systems at Specifi, which include the HRXE, HRX2D and HRX-aQ Mechanical Ventilation with Heat Recovery (MVHR) ranges and the CMX-MULTI Mechanical Extract Ventilation (MEV) unit.

www.domusventilation.co.uk

Panasonic celebrates making the shortlist



Panasonic is pleased to announce that its Aquarea J-Series Air Source Heat Pump has been shortlisted in the Domestic HVAC Product category of the 2020 H&V News Awards. The winners will be announced at a glamorous dinner at the prestigious Grosvenor House Hotel in Park Lane on 30th April 2020. Tony Nielsen, UK Marketing Manager of Panasonic commented: "We are honoured to be shortlisted in these prestigious Awards. High standards and innovation are a priority within Panasonic."

uk-aircon@eu.panasonic.com

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Five Tonnes of Plastic Saved from Landfill in 2019 by Award-Winning Recycling Service



An innovative and unique recycling service set up by Newton Waterproofing has saved 5.174 tonnes of plastic from going to landfill in 2019.

The UK's leading independent designers and suppliers of guaranteed waterproofing and damp proofing systems had 223 bags of HDPE membrane returned to them throughout the course of the year as part of the scheme.

By recycling waste plastic into new products instead of manufacturing from new HDPE, during 2019 alone Newton have prevented 5.944 tonnes of CO2e emissions from being released into the atmosphere; the equivalent of burning 1.96 metric tonnes of petrol and saving enough energy to make 826,200 mugs of tea.

Furthermore, since the scheme's launch in 2017 it has successfully prevented over 13.7 tonnes of plastic from going to landfill, equivalent to preventing 15.746 tonnes of CO2 from entering the atmosphere.

It's no surprise, then, that the service has won six awards in just over two years, including the 'Charles Darwin Award' from the British and Irish Trading Alliance (BITA); the 'Commitment to the Environment Award' at the Kent Excellence in Business Awards (KEiBA); the prestigious 'Innovation of the Year' award from the National Building Awards; and the 'Sustainability' award at the Property Care Association Best Practice Awards.

Newton Waterproofing's Managing Director Warren Muschialli said: "Our innovative recycling service had another tremendous year in 2019 and, as well as the environmental benefits, we also saved 223m^3 of skip space on site, equivalent to more than 24 full skips and therefore 50 skip journeys. This obviously delivers further emission and cost savings."

The closed-loop scheme works in collaboration with the company's Newton Specialist Basement Contractors (NSBC) who collect waste off-cuts of plastic membrane on their projects.

The waste is then collected by Newton at the same time as making deliveries of new materials, therefore preventing additional emissions from transporting the plastic.

Finally, the material is chipped into small granules by Newton, then collected by a national recycler for reprocessing and reusing to make new products for the construction industry.



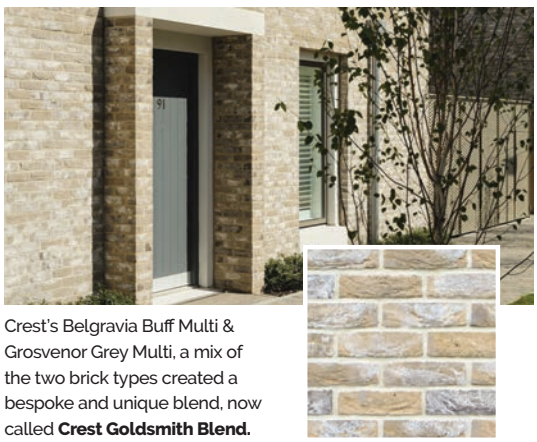
"We are proud to operate what is the only recycling service in the waterproofing industry," added Warren.

"With the Government setting a target of net-zero carbon emissions by 2050, it presents the construction industry with a wonderful opportunity to make a difference."

Newton Waterproofing design and supply guaranteed waterproofing and damp proofing systems for all structures, from large-scale commercial developments to new build and existing domestic properties.

01732 360 095
info@newtonwaterproofing.co.uk





Crest's Belgravia Buff Multi & Grosvenor Grey Multi, a mix of the two brick types created a bespoke and unique blend, now called **Crest Goldsmith Blend.**



Crest Nelskamp specifically designed 70° angle H14 black clay roofing tile. The unique roofing system **flows without interruption** continuously from eave to ridge.

CREST BRICKS AND ROOFING TILES SUPPLIED TO BRITAIN'S BEST NEW BUILDING 2019 WINNER

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BMF Builders Merchants Federation

UFEMAT

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01430 432667 info@crest-bst.co.uk www.crest-bst.co.uk

HOWDENSHIRE WAY, HOWDEN, EAST YORKSHIRE, DN14 7HZ

crest BUILDING PRODUCTS

Aquarian Cladding seals partnership with industry leaders to distribute MechSlip

Specialist external cladding supplier Aquarian Cladding Systems has announced an agreement with Ash and Lacy and Ibstock Kevington to distribute MechSlip.

The innovative brick cladding system will uniquely allow architects and developers the creative freedom to design robust and versatile brick facades using any natural clay brick cut into slips. The slips can be mechanically fixed to any substrate, at any height, via an engineered metal support system.

MechSlip will be added to Aquarian Cladding's product portfolio, alongside the B-rated Gebrik insulating brick cladding system and A1-rated Terreal terracotta rainscreen system, as a non-combustible A1-rated cladding solution, suitable for use on buildings over 18m.

For Aquarian Cladding, it means an exciting start to 2020 after another successful year in 2019. The South West-based company has seen continual growth since forming 12 years ago



and Julian Venus, Aquarian's Sales Director said: "We are delighted to be partnering with not one but two market-leading, innovative manufacturers. The opportunity to work together with Ash and Lacy and Ibstock Kevington is hugely exciting for all of us."

MechSlip will be introduced to Aquarian's unique Approved Installer Network and the company will work with its 60-strong approved installation companies to add the unique brick cladding system string to their bow.

The development of MechSlip has been carried out as a joint venture between UK-based industry innovators Ash and Lacy, who have designed the mechanical metal support system, and Ibstock Kevington, the UK's largest brickwork special shape and masonry fabrication company, who cut the brick slips that go onto it.

MechSlip has been fire tested and meets Euroclass A1 in accordance with EN13501-1:2007 +A1:2009. It has also been tested for weathertightness in accordance with 'Standard for systemised building envelopes CWCT, 2006' and is currently registered for BBA certification, which is expected in 2020.

Founded in 1857, Ash and Lacy has been at the forefront of technical performance, product innovation and high standards of engineering for over 140 years and manufactures a diverse range of engineered facade and roofing systems for the construction sector.

0808 223 9080
www.aquariancladding.co.uk

The Platform Lift Co. forms new partnership



The Platform Lift Company Ltd is proud to announce its new partnership with leading Swedish platform lift manufacturer Motala Hissar AB, who are part of the world-renowned KONE Group. This exciting new partnership positions The Platform Lift Company as a key UK distributor of Motala Hissar's range of platform lift products to other trade lift companies, commercial clients and end users. The Platform Lift Company will also be responsible for providing parts, servicing, maintenance and repair for the Motala platform lift product range within the UK.

01256 896000 www.platformliftco.co.uk

VORTICE sales team starts the year in Italy



January began with the **VORTICE UK** sales team's visit to the company's Italian headquarters where they previewed some of the brand's exciting new product development plans, with the environment being a key consideration. 2020 begins with the roll-out of the Vort Avel HR450D Passive House accredited ventilation system which was launched at the end of 2019. General Manager Kevin Hippey said: "The core business ethos in Italy is replicated in the UK, the desire to provide excellent indoor air quality to the domestic, commercial and industrial markets".

01283 492949 www.vortice.ltd.uk

New year, new name



Polypipe Civils & Infrastructure has changed its name to Polypipe Civils & Green Urbanisation. The name change reflects a shift in focus towards a holistic approach to water retention, re-use and management. Green Urbanisation introduces a new generation of techniques that optimises urban green assets through an extended and fully integrated sustainable water management network. Under a campaign name of *From the Ground Up*, Polypipe Civils & Green Urbanisation will be spreading the word about its new approach – and encouraging more dialogue and debate about our future city landscapes.

01509 615100 www.polypipe.com/civils

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Let it Shine

Loungers with exclusive design coating



Approx 200 RAL UNI or mother-of-pearl colours

Exclusive wellness loungers with an extravagant design coating. For the sophisticated private bathroom or public wellness facility the wedi Sanoasa Shine range offers comfortable loungers in five different shapes. The high-quality varnish, applied in a multi-layer process, can be produced in approx. 200 UNI colours (RAL) or with a mother-of-pearl effect, making each lounger a refined designer furniture element. Surfaces are seamless and are therefore particularly hygienic and easy to maintain. They can be used as soon as they've been placed and thanks to their low weight, they can be re-positioned as and when required.



Technology & design from one manufacturer

wedi Sanoasa lounger + wedi Shine coat



wedi Sanoasa Shine lounger 2



wedi Sanoasa Shine lounger 1



wedi Sanoasa Shine lounger 5

wedi Sanoasa Shine lounger 3



wedi Sanoasa Shine lounger 4



wedi Systems (UK) Ltd. E-mail: enquiries@wedi.co.uk Tel: 0161 864 2336 Fax: 0161 864 1323 www.wedi.co.uk

Mapei's Ultralite Range has been shortlisted for a TTS Award

Mapei is pleased to announce that the Ultralite range has been shortlisted as a top 20 finalist in the Tomorrow's Tile & Stone Awards 2020. The awards look to celebrate the best products and innovations in the tiling industry.

Mapei's range of Ultralite adhesives offers innovative, lightweight cementitious adhesives that are unique in their kind. The adhesives are ideal for bonding all types of ceramic, mosaic and natural stone, as well as thin porcelain tiles. They are particularly versatile with characteristics that make the work of installers simpler and quicker; providing more coverage per unit leads to faster installations and less mixing times.

Due to their special formulation, installation becomes less tiring – this is due to the glass micro-spheres or natural aggregates contained in the adhesive that help make trowelling easier. Supplied in lighter bags (15kg) with a practical hand grip for easier handling, Ultralite adhesives provide up to 80 per cent higher yield compared to other adhesives with the same classification.



Also part of the range, Ultralite D2 is a ready to use and water resistant adhesive with high yield for ceramic wall tiling; it boasts excellent coverage, and is very easy to apply.

Voting for the Awards are now open, and the readers of Tomorrow's Tile & Stone have until March 13th to select their winner via the website.

For more information on the Ultralite range, visit the website or email ukmarketing@mapei.co.uk to book a place on one of our Ceramic Tiling training courses.

0121 508 6970 www.mapei.co.uk

Consort launches new electric heating brochure plus updates to BIM library



Consort Claudgen have launched their latest Heat brochure which includes a host of new heaters and heating controls in their product range. The 48-page brochure features motion-activated and waterproof run-back time controllers, new heaters in the electronic 7-day timer range and advanced wireless controllers which are now compatible with Consort's RX and SL heaters. All of these are detailed in the brochure along with the established panel and fan heaters, convectors, LST heaters, air curtains, downflows and towel rails.

Consort have also added new BIM objects of low surface temperature heaters to their BIM library which consists of panel and fan heaters, recessed ceiling heaters and air curtains. All of these objects are available to download from Consort Claudgen's website or the NBS National BIM Library. The BIM objects featured in the NBS National BIM Library include technical details such as dimensions, ratings, insulation standard classes and electrical specifications to aid architects and specifiers in their design process.

www.consortepl.com www.consortepl.com/bim-modelling

Promotion for Designer Contracts interiors



The UK's largest flooring contractor, **Designer Contracts**, has announced a senior promotion within its 16-strong interior design division. Joining the business three years ago, and with almost a decade of experience in interior design, Faye Armstrong entered the show home division as design sales consultant and has now been promoted to design sales manager. Said Faye: "I'm pleased to be part of such a fantastic team of talented designers. A show home is a key selling tool for developers, which is why ensuring a scheme is tailored towards the builder's target audience is essential."

01246 854577 www.designercontracts.com

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www.subscribepage.com/adf

SALTO access control chosen for Venture X London

SALTO Systems has been selected to provide a smart access control solution for Venture X, a modern workspace community located in Chiswick Park, West London.

This business hub, with great transport links into Central London and Heathrow Airport is home to some of the world's leading companies working in the oil and gas, media, entertainment, technology, food and drink, and health and beauty markets.

It comprises 1.8 million sq ft of award winning accommodation, arranged as a necklace of 12 office buildings. Each building faces the Park's 'inner garden' with a featured two-tier lake, waterfall, decked boardwalk, pathways, events space and landscaping. Chiswick Park also houses over 45,000 sq ft of retail including the on-site Virgin Active gym, restaurants, convenience stores and an ever-changing array of pop-up traders and street-food vendors.

Part of the global Venture X United Franchise Group, Venture X provides a brand new inspiring, diverse, and collaborative working environment that is so much more than just shared office space. Housed in a cutting edge sustainable building development, which includes solar fins, it offers a place where individuals and businesses can lease hot desks, private desks or private offices.

Hot desks offer 24/7 access to common working areas (hubs) including phone booths and high speed Wi-Fi. Private desks add a Cat 6 Ethernet port, meeting and board room access, a business address with incoming mail handling, lockable office space and a private locker. Private offices top the package by proving all the previous offerings but in a fully furnished office space including SALTO access control.

What did they need?

With some 30 internal office and meeting room doors to secure, Venture X was looking for a technologically modern locking solution that would satisfy the needs of both the business and its customers. Key requirements were the ability to grant access rights instantly for new customers and revoke them in real-time for former customers. No hassle, costs or security issues with mechanical keys were wanted. They needed an audit-trail



overview of who accessed which door at which time. Flexibility allocating office space, meeting rooms etc on a day to day basis as required. Easy meeting and conference room access, and finally, easy, wire-free installation without software installation and IT configuration.

Solution and benefits

To meet these needs, SALTO's KS 'Keys as a Service' cloud based locking solution was recommended. This provides a flexible access control management system that requires no software installation or the added expense of a fully-wired electronic product. All that is needed is an online device with an Internet connection. Providing end users with cloud-based SALTO KS Keys as a Service reduces cost and almost eliminates the need for maintenance. Highly secure, thanks to its 2-factor-authentication and 128 bit AES encryption; it provides flexibility, scalability, reliability, and the ability to manage access control from any Internet platform.

Venture X Director Andrew Ross comments "When you're providing a working and meeting environment for entrepreneurs, and business people and large corporates, many of whom will be involved with technology businesses, security, efficiency and design were all essential aspects of the brief when we selected our preferred access control solution.



One of our key requirements was a product that offered both a card and mobile app solution that would enable us and our members to remotely open doors, i.e. for customers, tradespersons or postal deliveries to gain access for example without the need for a staff member to be physically present in the building.

Another feature we wanted was office mode, so instead of having to present an access card or smart phone app to a door every time someone used it, the door would function just like a normal door during pre-set times but auto lock when required. The SALTO KS we've now installed meets those requirements and gives us comprehensive 24/7 access control that covers our entire property. We are looking forward to utilising SALTO KS across the new Venture X locations that are in development for 2020 and 2021."

01926 811979 www.saltosystems.com/en

Quality engineered products for a new engineering department

In 2016 Imperial College London acquired the neighbouring disused Royal Mail Post Sorting Office from the Science Museum, sitting on the corner of Exhibition Road and Imperial College Road.

Architects Pascall+Watson were employed to devise a sensitive yet practical design for the change of use of this four storey building. As part of the plans, thought had to be given as to how to minimise carbon consumption, as well as reduce energy use and wastage in line with the College's Environmental Policy.

A significant amount of heat and energy can be lost through poor performing windows and due to the planning restrictions on the new Dyson Building, the numerous beautiful original single glazed windows of all shapes and sizes had to be retained. Therefore, Pascall+Watson specified secondary glazing to improve their performance.

Over seven different types were installed to match the varying styles; large sweeping



curved headed casements were treated with matching sightline Series 41 side hung casements, tall traditional box sash windows were treated with Series 20 and 25 vertical sliding units, along with a tricky installation of high-level stairwell port hole windows at the top of the building. To increase energy performance further, the units were glazed with 6.8 low-E laminate glass.

On the façade overlooking the service area of the Science Museum, obscurity glass was specified, to prevent distractions for the researchers and staff. The windows overlooking the busy thoroughfares of Exhibition Road and Imperial College Road were fitted with a cavity to provide added noise insulation, creating quiet conducive spaces for learning and meetings. It was decided to enhance the security of the ground floor windows with Secured By Design accredited units, the Police Preferred Specification.

The new secondary glazing in this state-of-the-art engineering facility, sits perfectly in this repurposed former sorting office. The rooms are now quiet and warm, retaining the elegance of the original architectural features.

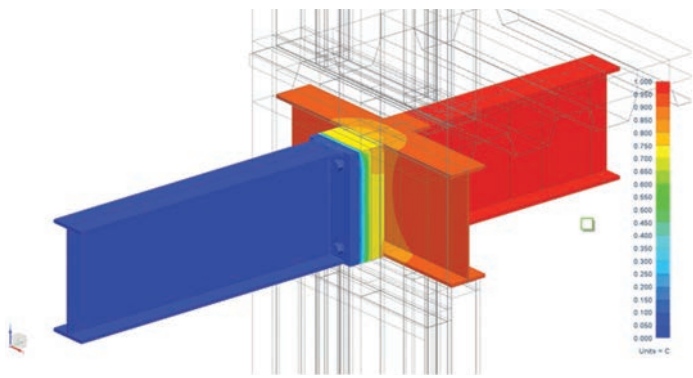
Selectaglaze is a leading specialist in secondary glazing, established in 1966 and Royal Warrant Holder since 2004. Selectaglaze will be exhibiting at Future Build 2020 from 3rd-5th March.

01727 837271 www.selectaglaze.co.uk

FUTUREBUILD STAND NO C22

ARMATHERM™ THERMAL BRIDGING SOLUTIONS

ARMATHERM™ THERMAL BRIDGING SOLUTIONS: IMPROVING BUILDING ENVELOPE PERFORMANCE



Thermal bridging is a big concern in the building industry, it has been recognised as a significant factor in building envelope heat loss. By reducing heat flow through a building's thermal envelope we can reduce energy consumption as well as prevent potential condensation issues. Building codes have increased requirements of building enclosures requiring 'continuous insulation' without thermal bridging. Thermal break materials can be used to reduce heat loss in wall assemblies, transitions and structural connections throughout the building envelope. They can minimise building energy loss and improve building envelope performance. This course will provide an overview to thermal bridging, discussing the reasons why it occurs as well as how it can be prevented. This course will also compare building details with and without thermal break solutions to highlight the importance of determining accurate values of thermal transmittance.

01274 591115 | INFO@ARMATHERM.COM | WWW.ARMATHERM.CO.UK

FUTUREBUILD STAND NO D109

Marley returning to Futurebuild



Marley Plumbing & Drainage is set to return to Futurebuild 2020, with an exhibition stand focusing on its fabrication service and array of innovative products and solutions for contractors, housebuilders and installers. Visitors to the Marley Plumbing & Drainage stand in the Offsite area of the show, stand number E35, will be able to learn more about the manufacturer's fabrication service, which offers bespoke pipework systems, all prefabricated according to the project's individual requirements and pressure tested as standard.

01622 858888 www.marleypd.co.uk

FUTUREBUILD STAND NO E35

Hadley Group returning to Futurebuild



Hadley Group, the cold-rolled steel manufacturer, looks forward to returning to Futurebuild 2020 as an Innovation Partner of the show, with a stand on the new Innovation Trail and a Hadley Group Bar. New for 2020 is Futurebuild's Innovation Trail, demonstrating the event's commitment to driving positive change and development in the industry through its Innovation Partnership programme. The innovation trail will run across the length of the venue and is set to feature an array of products and developments from across the construction sector, all contributing to transforming the future face of the industry.

www.hadleygroup.com www.hadleysteelframing.com

FUTUREBUILD STAND NO E50

Smart innovations on display at Futurebuild



Smart Architectural Aluminium will be showcasing a wide range of systems at this year's Futurebuild exhibition, with displays featuring its comprehensive Heritage Collection, as well as examples of some of the innovative solutions that the company has developed and produced for individual projects. At the heart of the stand will be a stylish room set, designed to display the company's proven Alitherm Heritage Window and Door and Designer Door systems, together with brand new interior screen and walk on roof systems, both of which are being previewed for the first time at the show.

01934 876 100 www.smartsystems.co.uk

FUTUREBUILD STAND NO B30

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futurebuild
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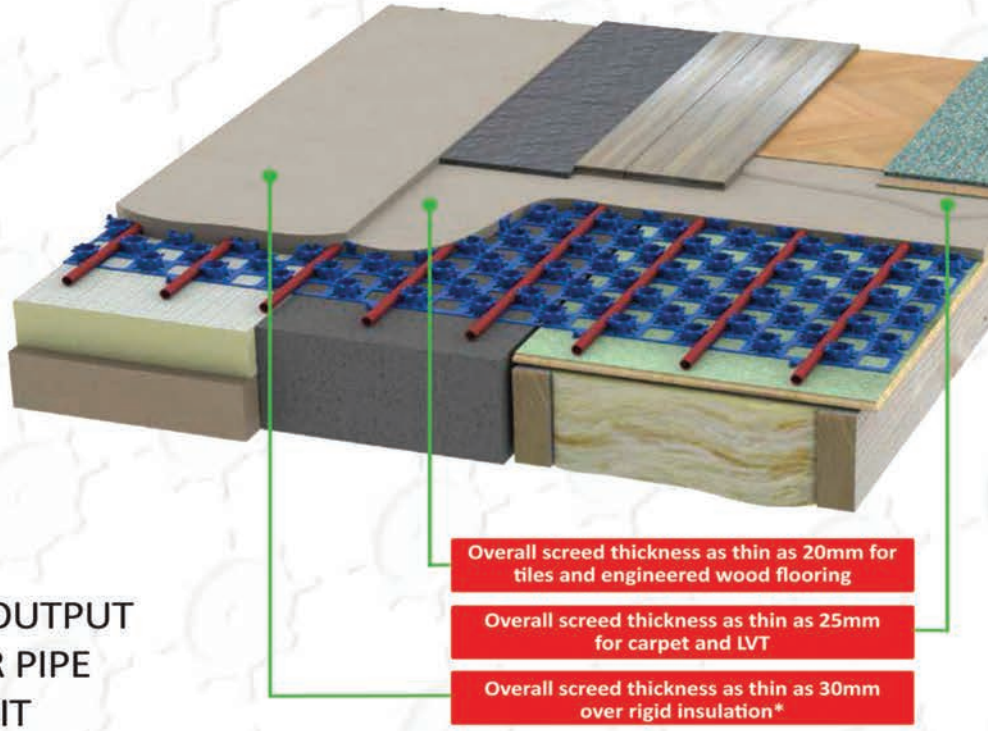
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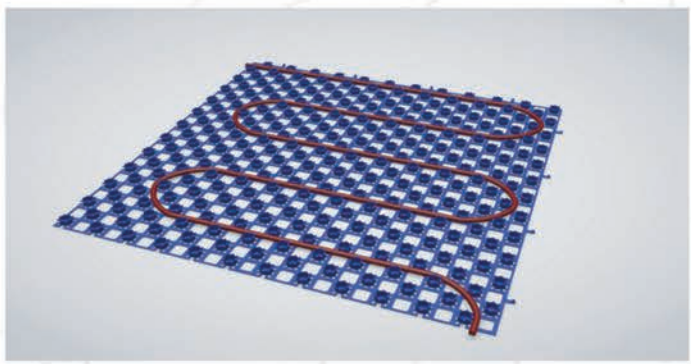
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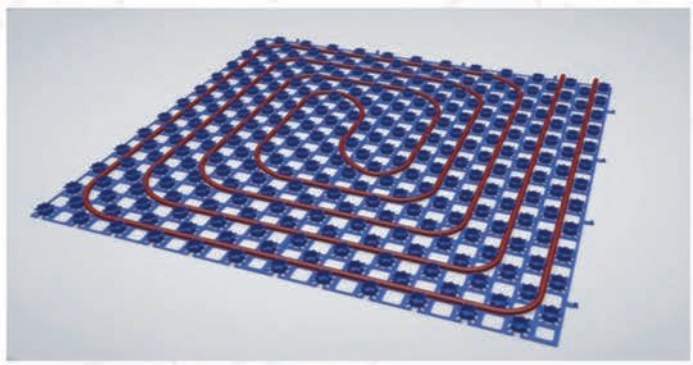


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futurebuild
03-05 March 2020 / ExCeL, London

Be the catalyst for change

The organisers of FutureBuild 2020 are looking to inspire architects to join fellow industry leaders and innovators at this year's event to be the "catalyst for change" that's needed to help deliver a more sustainable built environment

Futurebuild's conference returns for 2020, and the event organisers have described it as "bigger and better than ever before," with the climate and ecological crisis leading the conversations. Over the three days, politicians, academics and industry shapers will guide the discussions.

Sessions for architects in the Conference Arena will include 'Professional Collaboration: Do it together,' developed in partnership with the Chartered Institute of Architectural Technologists (CIAT). This session, on day three (5 March), will look to bring the presidents of the institute together to discuss how those working in the built and natural environments are currently responding to the climate and ecological emergency, and will report on "ongoing plans to continually evolve ways of working for the future."

On the second day of the conference (4 March), candidate for London Mayor Rory Stewart will join a panel for the 'Carbon neutral cities for the future' session. They will discuss the actions that cities across the UK and abroad are taking to ensure a "liveable future for all," from improving mobility to urban greening to combatting air pollution.

With conference discussions focusing on the biggest issues facing the built environment at a macro level, six 'Keynote Stages' located across the event will look at the specific challenges impacting buildings; offsite, energy, interiors, resourceful materials, and critical infrastructure. This programme of "solution-driven sessions" will "share the latest thinking and research, to try to educate, inform and inspire visitors to make a positive change."

Of particular interest to architects will be the 'Buildings' area, which is expanding for 2020 to include two new showcase areas;



the Whole House Retrofit Zone and the Digital Impact Zone. Here, visitors will have the chance to discuss the various refurb and retrofit solutions, both current and in development, as well as the latest developments in digital construction.

'Interiors at Futurebuild 2020' will look to help those seeking inspiration across all areas of commercial and domestic interiors. Buyers and high-level decision makers involved in housebuilding, commercial fit-out, student accommodation, social housing and the public sector, will have access to solutions covering health buildings, kitchens, bathrooms, surfaces, and flooring. Confirmed exhibitors for interiors include SIAMP, Leicht, and Lumi-Plugin. Meanwhile, the Interiors Keynote Stage programme curated by the



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International WELL Building Institute will provide the latest information and good practice on key topics and challenges that the sector faces.

Beyond the stages

Around each Keynote Stage will be an exhibition of innovative brands, offering solutions to the challenges discussed in the companion knowledge programme. The exhibition will feature some of the "largest headline brands in the sector," alongside SMEs and start-up organisations, creating a "dedicated platform to connect these companies with forward-thinking specifiers and buyers," say the organisers.

Connecting the exhibition will be the Innovation Trail; brands and organisations that are taking the lead when it comes to innovation will be recognised through the dedicated route. It will take visitors on a journey through the event and showcase the latest thinking from Futurebuild's Innovation Partners, which include ACO Technologies, Smart Systems, Internorm, Steico and Kochwerk.

The game changers are back

Championing innovation is the central purpose of Futurebuild, and the 2020 event will see the return of the Big Innovation Pitch. Hosted across the event, in conjunction with BRE as technical partner, the competition will be the industry's largest "call-out" for innovation to date and will identify and celebrate novel new approaches to tackle of the biggest challenges facing us all.

Previous years have seen innovative solutions, such as a sustainable alternative to plywood produced from mixed waste plastics and energy and cost saving air-conditioning units, take the top spot.

Martin Hurn, event director of Futurebuild, said: "The responsibility for tackling the climate emergency lies in all of our hands and we must collaborate in order to find solutions to secure our future. Futurebuild 2020 provides the perfect platform for forward-thinking decision makers across the built environment to come together and play a key part in driving positive change."

To register visit www.futurebuild.co.uk/register

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Green-tree Rain Garden Filter Medium helps project achieve BREEAM: Excellent rating

The idea behind the Nexus Building was one of collaboration – setting up a "community of innovators", as well as becoming home for the University of Leeds new Design and Innovation Centre. With an impressive new entrance on Woodhouse Lane, Nexus forms a striking gateway between the city and the southern corner of the campus.

The University of Leeds wanted their landscape strategy to create an exciting vision for the development of the campus – with inspiring, memorable and unique spaces – which complements the built landscape. A key aim of the University is for it to be a sustainable University of which the campus landscape is a core part.

They specified that the landscape development is to be an exemplar of urban biodiversity, creating a biodiverse environment and providing ecological corridors within the city. It was important for the campus landscape to be an inspiring place which encourages innovation, live research, learning and discovery. Invigorated, high-quality public spaces should form a network of hubs across the campus which encourage a diversity of activity. The campus landscape is underpinned by and promotes the university's values of sustainability to become a living lab for sustainable solutions.







The external landscaping provides a relaxed, aesthetically pleasing setting, featuring breakout areas, a sustainable garden, and a biodiverse rain garden, all which helped towards the project's "BREEAM: Excellent" rating.

Our involvement

Architectural and building consultancy practice AHR specified a rain garden as part of the development. This acts as a visually appealing, low maintenance and biodiverse friendly, sustainable drainage system.

Green-tree is a part of leading landscape supplier Green-tech. They advised and supplied specially formulated Green-tree Rain Garden Filter Medium, manufactured from PAS100 green organic matter, screened silica sand, and blown clay particles. This growing medium provides the nutrition required for healthy growth, while at the same time, slowing down the flow, and acting as a filter for both rainfall and runoff from hard landscaping.

Working for the landscape management company, Gavin Jones Ltd, Green-tree produced a specialist mix of Green-tree Rain Garden Filter Medium to satisfy the particular demands of a rain garden, and deliver to site within a critical delivery window.

Jordan Webster Green-tech's Key Account Manager commented: "We have worked with Gavin Jones Ltd on several high-profile projects now and it is always good to see the finished result and to know that we all did our part in greening up our urban landscape."

Ricky Whiteman, Head of Estimating North for Gavin Jones Ltd added, "We know from past experience that Green-tree soils are of a consistent, high quality, which is so important when working on niche projects such as this. Yet again, the service and support from them was first class."

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BREEAM Awards 2020

ADF previews the shortlisted entries for the BREEAM Awards which presents the best in international construction sustainability, and features a new 'personal' award for 2020

The annual BREEAM Awards, says their organiser BRE, showcases "the most innovatively sustainable BREEAM rated buildings from around the world of the previous 12 months."

Award categories include different regions around the world, project types, and professional recognition, as well as partnership awards with GRESB, the benchmarking system for real estate assets. This year however will see the introduction of the new 'Director's Award'. This will be made to an individual "who deserves to be recognised for their achievements and leadership in BREEAM," and will be chosen by BREEAM director, Shamir Ghumra. The 2020 awards will also see the return of the popular 'Your BREEAM Award,' where the public have the opportunity to vote for their favourite building from the shortlist.

The awards evening itself will be held on the eve of Futurebuild – 2 March – at Hilton London Bankside Hotel, and will be hosted by Brian Blessed OBE, one of Britain's most famous stage and screen actors.

As the longest standing and most widely operated built environment sustainability assessment method, the BREEAM Awards represent "a celebration of built environment sustainability from across the world."

THE 2020 SHORTLIST

GRESB/BREEAM Award for Responsible Investment Large Portfolio
- Altarea Cogedim
- CBRE Dutch Office Fund
- IRE European Fund
- Neptune Property Venture SARL
- Société Foncière Lyonnaise

GRESB/BREEAM Award for Responsible Investment Small Portfolio
- Altera Vastgoed NV - Winkels
- Bouwinvest Dutch Institutional Office Fund N.V
- Hermes Central London JV
- Prologis UK Logistics Venture
- SPP Fastigheter AB



GRESB/BREEAM Award Individual Leadership
- Aleksandra Njagulj, CBRE Global Investors
- Clementine Pacitti, Klépierre
- Derk Welling, APG Asset Management
- Katherine Sherwin, BlackRock
- Xavier de Saqui de Sannes, Invesco Real Estate

Regional Award China
- COFCO Landmark
- IKEA Changsha Center
- Jin Mao Office Tower
- Poly Oriental Mansion
- Royal Seal City

Regional Award North America
- 2840 Junction
- 2880 Junction
- 3050 Zanker
- Landmark @ One Market
- UC Davis Rifle Range

Regional Award Western Europe
- Kantoor Goede Doelen Loterijen
- Gebouw Atlas, renovatie hoofdgebouw TU/e
- International Quarter London - Building S9 PCR
- Jonas
- Oldenburger Fritom BV

HOOVER BUILDING, LONDON
2019 Winner – Homes Post-Construction Award

The 2020 Awards will see the return of the popular 'Your BREEAM Award,' where the public will have the opportunity to vote for their favourite building from the shortlist



COFCO LANDMARK, CHINA
2019 Winner – Regional Award Asia



UNILEVER FOOD INNOVATION CENTRE, NETHERLANDS
2019 Winner – Commercial Projects Design Stage Award

The BREEAM Awards represent "a celebration of built environment sustainability from across the world"



BINARIUM BUSINESS CENTRE, ROMANIA
2019 Winner – Commercial Projects In-Use Award

Regional Award Central and Eastern Europe
- Binarium
- Lidl Bucuresti
- M1 Krakow
- Podium Park budynek A PCR
- Westfield Chodov

Regional Award Rest of the World
- Al Zahia Phase 4
- IKEA Yatomi Distribution Center Expansion
- International pavilions (Blocks C2.1, C2.2, C2.3)
- Parcel C3. 'Astana' International Financial Centre
- Shopping and entertainment center MEGA Silk Way

Commercial project - Design Stage Award
- 21 Moorfields
- Louwman Rotterdam Zuid
- Project Mint (Triton Square)
- Quatuor - Building C
- Skysawa budynek A

Commercial project - Post Construction Award
- Kantoor Goede Doelen Loterijen
- International Quarter London - Building S9 PCR
- Lidl Bucuresti
- Oldenburger Fritom BV
- Podium Park budynek A PCR

Commercial project - In Use award
- Binarium
- M1 Krakow
- Schweigaards gate 16 AS
- Splau
- Westfield Chodov

Public Sector Project - Design Stage Award
- Confetti CQ Campus
- Knights Park
- Navitas
- University of Portsmouth Sports Centre
- Urbanest Vine Street - Student Accommodation

Public Sector Project - Post Construction Award
- Gebouw Atlas, renovatie hoofdgebouw TU/e
- London School of Economics Centre Buildings Redevelopment
- Nieuwbouw Hogeschool Utrecht
- Nightingale Primary School
- The Student Centre

Public Sector Project - In Use Award
- Flundran 2
- Hospital Universitario Infanta Sofía
- Lövhagen 32
- Otto Sverdrups plass 4
- Salmisaarentalo

Homes - Design Stage Award
- Balfron Tower
- Colette Court (6 Dwellings)
- Jonas
- Luxuria Domenii Residence
- Parker House

Homes - Post Construction Award
- King's Court PCR
- Vantage House
- Old Queen Street PCR
- Centre Point Tower Redevelopment (80 Dwellings)
- 5 Palace Court

Professional Champion Award - Architect
- HNW Architects
- Keppie Design
- Rolfe Judd
- Stiff and Trevillion
- Wilkinson Eyre

Professional Champion Award - M&E Engineer
- Atelier Ten
- Hurley Palmer Flatt
- MTT Limited
- Norman Disney & Young
- Sparkling Projects



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BUILDING PROJECTS

CITY PLAZA PRIMARK STORE WUPPERTAL, GERMANY

Bold as brass

The project architect in charge of a new architecturally adventurous flagship retail store in the German city of Wuppertal explains to Jack Wooler how the practice went about revitalising a large brownfield site, and created a unique retail environment.

In the midst of a large urban redevelopment project in the centre of the German city of Wuppertal in North Rhine-Westphalia, sits City Plaza, a dramatic new five-storey store for the clothing chain Primark, has uplifted a rundown district.

Set among a mix of building styles, including modern, post-war developments alongside historic architecture, and next to improved public space linking the railway station to the city, the project has been created as a striking centrepiece to a busy urban hub. The area is used by tens of thousands of rail and bus passengers every day.

Despite such a complex backdrop, project designers Chapman Taylor were not required to follow any local vernacular building styles or special regulations, allowing them the freedom to design a consciously modern and striking building, with the aim being to avoid creating a "pastiche of Wuppertal's heritage," as lead architect Yvonne von Salm puts it, "but rather to add to the city's build legacy with a new layer, firmly rooted in the present."

Through this artistic licence, the architects have formed a distinctive curved, undulating facade, clad with alternating brass panels and glass curtain walling, lifting the area's look and feel alongside the major ongoing works in the surrounding public realm.

The contract

It has taken six years in order to get to this point however, as von Salm explains. She tells *ADF* that in 2014, the City of Wuppertal launched its largest post-war urban renewal project to date – the redevelopment of the down-at-heel district around the railway station. The City of Wuppertal orchestrated a competition to develop the brownfield land here, with the process requiring interested investors to put in a financial offer for the site, supported by an architectural proposal.

Says Yvonne: "Based on the financial strength of the investor, Signature Capital, and the architectural quality of the proposal, the City then selected us as the winning team to design the area's regeneration."

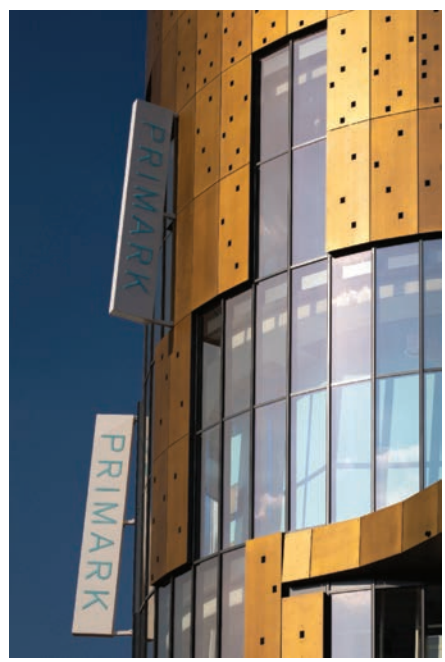
Having worked with Signature Capital elsewhere, they were asked in this instance if they would be interested in developing an existing urban design scheme for the wider site, which was created by another firm.

Complications

After winning the contract, the architects were presented with a series of challenges, beginning with the site, which required complex and expensive works before undergoing the building's actual construction.

Once construction started, one such early challenge for the project was that the site sits on solid rock, which had to be dynamited to allow for an underground level of car parking, service access and other facilities. "This was a time consuming, expensive, and tricky process," tells Yvonne.

Another site challenge that followed this was to redesign the connection between the railway station and the city centre. "The railway station was previously severed from the city centre by a dual carriageway, and pedestrians had to walk through an unwelcoming underpass," says Yvonne.



PANEL INTRICACIES
Each brass panel within the undulating curved facade has to be individually designed, and each had its own pattern of perforations
Images (above and facing page) © Cloud 9 Photography

If it wasn't for our BIM capabilities, it might not have been possible



VIBRANT BLEND
The architects' ambition was to "present Wuppertal as a vibrant blend of the old an the new – with a contemporary design for a striking centrepiece"



Because of this, that highway was lowered by 6 metres, and a new bridge made of steel and folded glass built, flanked on both sides by retail/food and beverage pavilions. Yvonne adds: "The new bridge transforms the pedestrian experience, seamlessly linking the station with the city centre."

A perhaps smaller, but still significant design challenge for the architects was to reduce the size of the public square in front of the railway station, and create what the architect describes as a "much more human scale."

"We achieved this, for example, by proposing the relocation of the main building to bring it into closer focus, Yvonne explains.

A striking centrepiece

Now complete, users crossing the new, improved public realm are greeted by the new flagship store's unique, amorphous and slanted facade, which achieves its aim of forming an architectural landmark in the city.

The curved facade of brass panels first draws the eye in with its intricacies – each panel having to be designed "individually and with care" because there couldn't be a uniform size and shape, each panel also having a unique perforation to create a discernible pattern from the variety.

Inspiring City Plaza's exterior here was the city's 18th and 19th century textiles boom, details Yvonne, the practice taking in influence from the yarns, fabrics and lace that were created here, as well as the colouring of such materials.

"We decided to create a multiply, curving facade," she says, "leaning outwards at the upper levels by 4.6 per cent (a total of 2 metres overall), which resembles the folds of curtains."

The architect explains how this curved gold cladding, produced by German metal facade manufacturer Pohl Facade Division, fits into the surrounding vernacular: "Our ambition was to present Wuppertal as a vibrant blend of the old and the new – with a contemporary design for a striking centrepiece building which would help to achieve that in a way which would complement the wider urban



© Cloud 9 Photography

context of impressive historical buildings."

She continues: "The design was selected early on because of its 'wow' factor, and remained remarkably consistent from early concept stages through to completion on site."

Interiors

A cantilevered brass canopy extends from this facade – designed in keeping with the building's geometry and using a material palette corresponding to the facade cladding – and into the ground floor of the new building; users are thereby led into the main entrance area.

Intended to cause an immediate reaction, Yvonne says that the "building serves as a statement of intent," for the client, enabling Primark to "raise its profile in Germany and reposition itself in the market."

With the original brief being to house multiple retail tenants and a hotel across its five above-ground floors, the building covers a 2,000 m^2 plot, the extensive retail floorspace distributed across four storeys.

The entirety of what the architects describe as this "solitaire" building was leased by the



© Cloud 9 Photography



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clothing brand however to house the flagship store, with the tenant carrying out the interior fit out. To add to the retail space, there are office spaces on level five, as well as the basement garage and storage area on the lower ground floor.

Throughout the interiors, long sight-lines extend through and beyond the building, the expansive glazing flooding the retail and office spaces with light. "Due to the fact that it is a 'solitaire' building, and the extremely flexible design concept," says Yvonne, "we've been able to integrate windows on all four sides wherever necessary, allowing sufficient natural daylight into the building as and when required."

By using specialised glass, the building's glazing enables this abundance of natural light without causing glare, as well as offering heat resistant properties to control solar gain and help reduce energy requirements in terms of cooling. Alongside this, the interiors make extensive use of LED lighting to supplement the natural light.

Structural complexity

The entirety of this complex building was first designed in BIM by the architects, with the other contractors then able to make use of their model, as Yvonne says, "simplifying the process, preventing clashes, and saving a lot of time on the development."

"The curved and slanting facade was a particular challenge here," she continues, "if it wasn't for our BIM capabilities, it might not have been possible."

Part of this complexity was the need to make every panel individually, and ensure it took its correct place in the overall pattern. To achieve this, each panel was numbered and allocated a position on the facade, which she says was "a very complicated process."

The finished facade was constructed using KME's TECU brass (pre-burnished and lacquered) metal panels, and Thermoplus S1 (optiwhite) glass from German manufacturer Risse Glass across the main building, as well as Delodur (optiwhite) 8 mm across the glass entrance lobby to the store. This is built on top of the 8.10 m x 10.60 m structural grid found the basement; it's 10.60 m x 10.60 m for the floors above ground level.

This glazed mullion-transom facade is ventilated from the rear, utilising mineral wool insulation, and clad with an underlying membrane. The facade itself consists of a

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multi-part substructure and cladding with pre-burnished and lacquered copper and aluminium alloy composite panels.

The facade's brass panels are certified as an environmentally friendly building product in accordance with ISO 14025 and EN 15804. The brass material used is designed to be durable for a long life, meaning that the facade will require minimal maintenance or replacement materials.

Uplifting the area

According to Yvonne, the city's public have already recognised the improvement that the scheme has brought about: "They are now able to walk between the railway station and the city in a seamless and much more pleasant way, and they can also see the way in which the square's proportions have become much more human in scale."

"More than that however," she continues, "the design of the building lifts the area. It creates new possibilities – people now dwell and watch the world go by over a coffee or wander around exploring in a space which was previously grubby, and functional. It's now a positive experience just to stand there and look around, and to appreciate the new sense of place that the design has created."

The architect tells *ADF* that the project has also become a catalyst for further development in Wuppertal since its conception, and is now a "key reference" for discussions about how to regenerate urban centres, during what she says is "a period of uncertainty about the future of physical retail."

This has been reflected by the sector too – Chapman Taylor's Düsseldorf studio, together with the investor Signature Capital, won the prestigious global MAPIC Award 2019 in the 'Best Retail City Centre Regeneration' category, the European Property Award 2019-20 for 'Best Retail Architecture in Germany,' and the German Polis Award 2016 in the 'Regenerated Town Centres' category.

As well as achieving such industry praise, through its distinct and idiosyncratic design the practice have succeeded in creating an architectural landmark in the city of Wuppertal, and have helped transform a previously run-down area into a lively and attractive urban destination. ■

The city's public have already recognised the improvement the scheme has brought about

PROJECT FACTFILE

Client: Signature Capital
Architects: Chapman Taylor
Landscape architects: Chapman Taylor / Leonards
Structural and acoustic engineers: Schüssler Plan
Facade consultants: InFaCon
Metal facade cladding: Pohl Facade Division

Rockfon high performance ceilings complete state-of-the-art SamsungKX

SamsungKX has been designed to provide the ultimate immersive brand experience. Located at Coal Drops Yard, in the new Heatherwick Studio-designed King's Cross retail and lifestyle district of London, SamsungKX is an experience space where visitors are invited to discover, interact with and learn new skills in a dynamic, innovative environment, so the acoustics had to be perfect.

Along with Pacy and Wheatley Acoustics, we were delighted to be involved in this project. We met with the design and installation team to discuss the project in detail. The project's acoustic requirements, its symmetrical design, installation of services and the adaptability of the system were all discussed. The original structures at Coal Drops Yard have been reimagined by the Heatherwick Studio, resulting in a striking contemporary design showcasing the original brick work, ironwork and the surviving grand brick viaducts. To meet the



architectural and acoustic challenges a Rockfon® Mono® Acoustic seamless ceiling system was specified.

Architecture and design practice KSS Associate, Trevor Gidlow commented, "We were commissioned by interior fit-out specialists, Portview, to review various ceiling systems for application within Coal Drops Yard. Five were reviewed including monolithic and stretched fabric systems. Our assessment criteria included - appearance, sustainability, acoustic class, fire resistance, combustibility, weight, installation angle and curved edge profiles. Rockfon Mono Acoustic was our final recommendation and main contractor selection based on the ability to install as a multi-gang operation, thereby gaining significant programme benefits. The appearance of the installation fully achieved the original design vision".

Combining exposed brickwork and metal, two iconic 'kissing rooftops' and a 'timber peel' on the inside created a dramatic front of house. The size and scope of the space had the potential to generate unwanted noise. Rockfon Mono Acoustic provides Class A sound absorption to significantly decrease echo and reverberation, helping create the perfect environment for visitors to interact with the latest Samsung technology.

Craig Wheatley of certified Rockfon® Mono® Acoustic installer, Pacy & Wheatley Acoustics, "What an amazing project to be involved in, from design to completion, another real flagship project for us."

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BUILDING PROJECTS

ROYAL WHARF PIER
LONDON

Two views of the river

A new pier has opened for the Thames' main river taxi which provides new public space as well as vital transport infrastructure, in a design which divides the structure into two to make the most of its location. James Parker reports



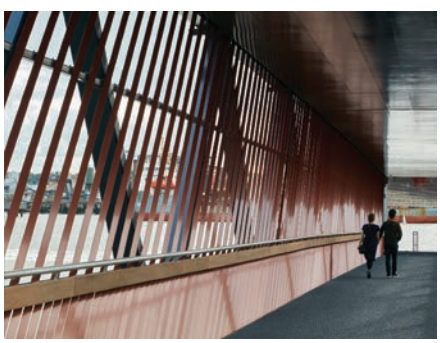
Navigating central London via its river is not yet something that many Londoners do on a daily basis. However more commuters are now using the MBNA Thames Clipper river taxi service run by Transport for London from Battersea to Woolwich, alighting to and from a striking new pier at Royal Wharf in the East End. It's the result of a client who wanted to go beyond simply creating a practical means of mooring this sizeable vessel, to creating a considered architectural addition to the city which provides new public space on the river.

Ballymore and Oxley's Royal Wharf is a major new riverside mixed-use development of low and medium-rise blocks including around 3,400 residential units, and located just west of the Thames Barrier and south west of City Airport. According to Alan Dempsey, director at architects Nex—, Ballymore and Oxley "were looking for something different" when they appointed the firm, who were in competition against a clutch of much larger practices.

This explains why they had the confidence to pick a firm with no experience of transport infrastructure, but possessing "a very clear vision for how this pier could address some bigger questions," says Dempsey. It was to be much more than just a "bus stop," he says, but would



TWO PIERS IN ONE
The pier is divided into two sections connected by a triangular viewing platform; the first section providing an open public promenade, and the second a more enclosed gangway for commuters



"contribute to the city and the riverside in terms of providing a meaningful public space." In addition, the client was also attracted by the practice's keenness to collaborate, including with the marine engineers on the project, Beckett Rankine.

The steel, aluminium and timber structure replaces a derelict jetty with something with a great deal of architectural merit, but which also serves the practical needs of a new population of city dwellers living in Royal Wharf but commuting to other parts of the city. It has also been designed as a public space in its own right, so serving the potentially conflicting needs of lingering visitors and commuters in a rush was a key challenge for the architects.

A 'dog leg'

In Dempsey's words, the client's desire was that the pier should be "distinctive, high quality and memorable," and that's why "they looked for the design to be a close collaboration between an architect and engineer." The key distinguishing aspect of the pier is its 'dog leg' structure, angling out to the east from the riverbank to a triangular public viewing platform pointing towards the Thames Barrier, then back towards the city, terminating in a floating pontoon waiting area.

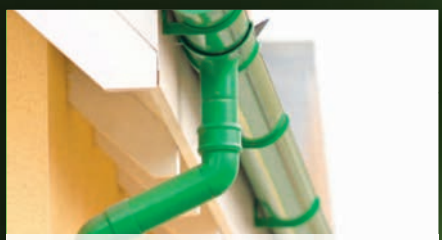
This division initially came from an architectural decision to break the pier down into "more manageable distances," says Dempsey. The pier needed to extend 130 metres to reach water deep enough for the Thames Clipper during all tides – the tidal range is high at that point of the river – but this would have made for a long, and perhaps oppressive walkway. He adds: "We didn't want the sense of travelling down a tunnel or a long series of gangways, it was really about opening up the expansive views wherever we could."

With the decision made to separate the pier into two sections, the architects decided to design the first 40 metres as a generous "public promenade." This is divided by a



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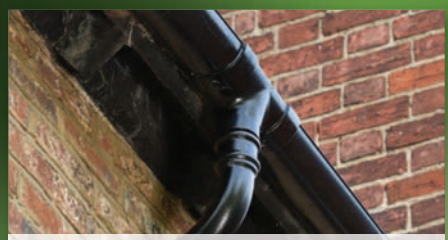
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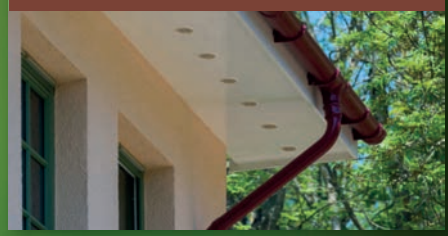
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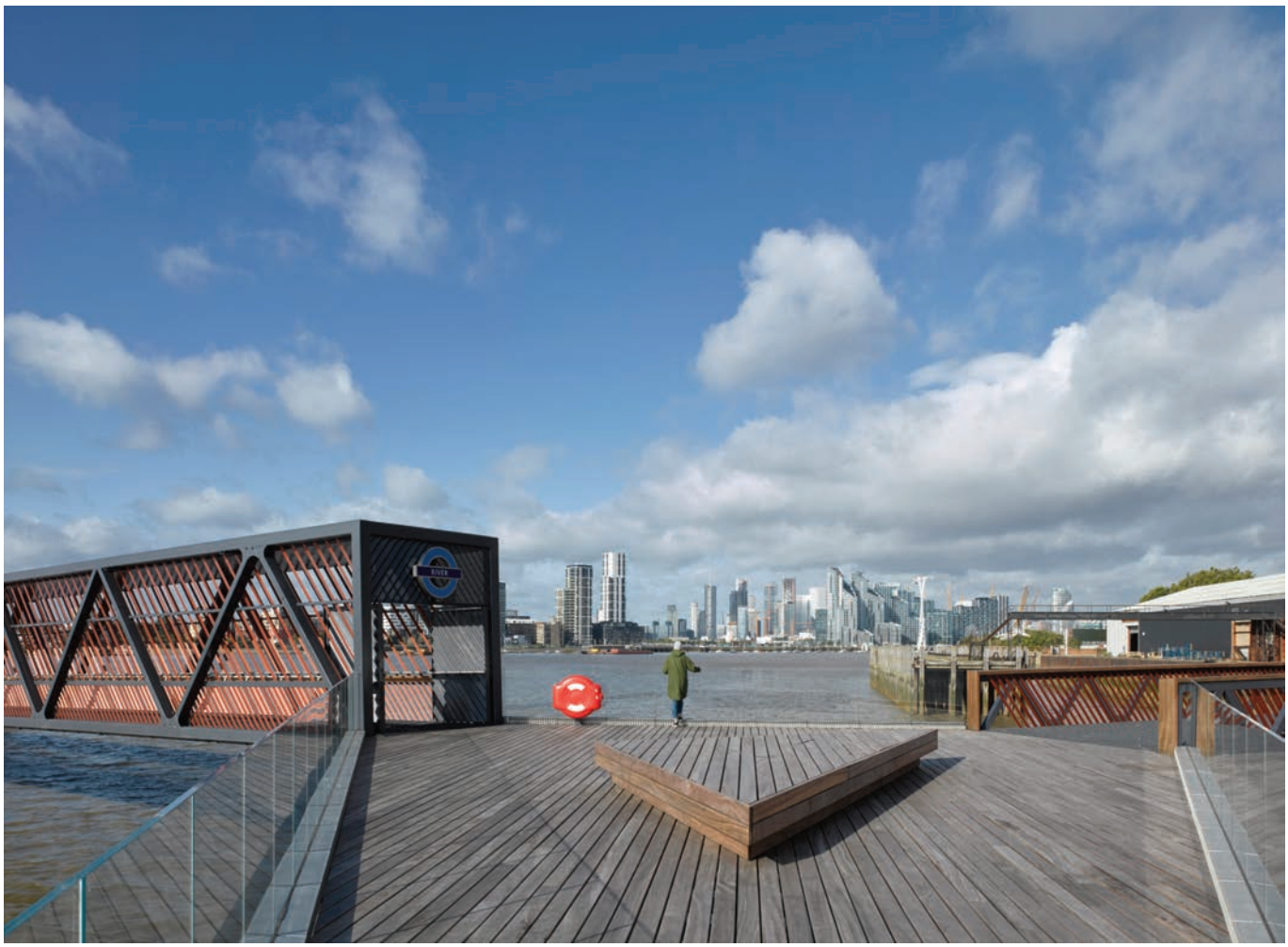
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It's the result of a client who wanted to go beyond simply creating a practical means of mooring this sizeable vessel, to creating a considered architectural addition to the city

clear boundary from a second gangway section more focused on efficient transport of pedestrians – this boundary provided both by the viewing platform, and the sheer fact of the dramatic change in angle.

The result is almost to provide two piers, given they have two distinct horizons for users – the public promenade in particular "draws upon ideas about British seaside and river piers, and the open horizons you get from them." From the promenade, there's an uninterrupted view east towards the Thames Barrier, thanks to the 162 m^2 triangular viewing platform being enclosed with a frameless balustrade of "ultra-transparent" glazing. Then as the pier heads back westwards, there's a view of Greenwich and Canary Wharf, also gained through the 4.5 metre glazed wall of the covered waiting area.

Experiencing the pier

The public promenade section is over 5 metres wide – considerably more than the minimum needed to get to and from a pontoon. Dempsey says this will allow people to linger and look while commuters move past them. "You might have 50 people embarking or disembarking at rush hour, so there's space for people who might already be there, moving at a slower pace." The promenade also has a generous wood parapet designed for people to lean on; "it invites pausing."

The 65 metre long gangway is more enclosed than the public space, to protect commuters heading further out into the river, with a steel roof. Diagonally arranged aluminium battens which have been powder-coated in a copper hue run along the sides, continuing from the public promenade section and echoing traditional pier design. Rising above the parapet here however to support the roof, the walls' ability to let in daylight helps avoid a claustrophobic feel while protecting users from the elements. While narrower than the public section, the space's 4 metre height

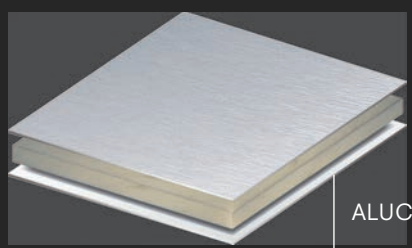
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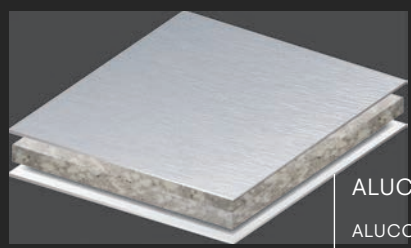
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further avoids any sense of "feeling compressed into a tube."

In terms of structural engineering, the first span creating the public promenade is straightforwardly broken into three sections of supports, with a pile at each junction, and the triangular platform is fixed onto further piles. However the gangway is floating, like the pontoon, which has a pair of 'dolphin' piles holding it place in the river. The gangway section, despite being longer, is a single span, a more pleasing visual result which required "working very closely with the engineers to work out how we could do it in one piece, rather than cut it up and bolt it back together on site."

The pontoon that houses the waiting area is a neatly designed, rhomboid in plan structure which exploits the change in level necessitated in the second section of the pier by the first section being flat for the benefit of the public. Leaving the gangway, users arrive at the top of wide wooden stairs which continue around the space as seating, like a miniature amphitheatre, and are given a "nice overview of whole space."

Users may also descend the final metre and a half to the floor level by a ramp, which wraps around the rear of the seating area; the ramp is separated from the seating area by a semi-enclosed timber screen wall that offers waiting commuters protection from the wind. Dempsey explains how this successfully addresses the level change: "We wanted to keep it as level as possible on the promenade, so the challenge was how do you design that ramp in an integrated way so it feels a natural part of the pontoon rather than a separate mode of access stuck in the corner." In the evenings the 'wrapped' nature of the screened seating "makes for a comfortable space that people don't feel intimidated to spend time in."

The shelter's form is "defined by its cut and folded butterfly roof," say the architects, helping accentuate a feeling of



lightness by concealing the structural dolphin elements behind compact service zones enclosed in a light grey metallic cladding. There are four slender internal steel columns, "more required to hold the roof down than hold it up because of wind and tidal loads," and wrapped in polished stainless steel.

The roofline is sloped to take in direct views towards the towers at Canary Wharf, the O2, and beyond them the City of London. The glazing that runs along the 12 metre front elevation rises to around 4.6 metres at one end, and has two openings allowing users to access a viewing platform.

The mild steel roof is folded upwards like a butterfly for practical as well as aesthetic reasons – aiding drainage, but also helping to bring light into the space. As well as providing an interesting form, light bounces off the water, causing reflections onto the ceiling (which is powder-coated in a similar copper colour to the aluminium battens) and is reflected down into the space. Dempsey says that one of his key inspirations throughout the design was Turner, and the way the painter "incessantly captured the changing light on the river."

Materials

The materials palette refers to both pier heritage and shipbuilding, and "speaks to both the practical needs and maritime setting." The zig-zagging steel structure is painted a dark, slightly bluish grey to offer a contemporary look that will weather well. The steel wall panels of the waiting area are a pale metallic grey – to "kind of disappear, reflect the light and horizon, and leave the roof to appear to float," says the architect.

Ekki hardwood timber, well known for its high performance in marine settings, features prominently, forming the stepped seating in the waiting area, and warming the space. The timber is also used for handrails along the length of the pier, plus the



triangular sculptural seating on the viewing platform that echoes the shape of the waiting area pontoon.

LEDs mounted in the pier's structure uplight the copper coloured battens, creating a sense of theatre at night time, and mounted under the parapet, illuminate the black resin walking surface. The viewing platform has LEDs running around the glazed perimeter and the timber seating.

This pier is an important part of attracting more users to what is a much more pleasant, as well as effective, means to get around the city

Challenges

Dempsey says the biggest challenge the designers faced was to ensure the contractors delivered a level of finish to ensure this public space would 'feel' high quality. "These are people who spend most of their time making big steel plate and marine structures. It was initially just a change to their mindset to get them to understand we were looking for a precision that was probably in excess of what they were normally used to dealing with."

Bridging the divide between normal marine engineering and the level of tactile architectural quality that the architects insisted on was further challenged by the design and build project being built overseas before being shipped to site and craned into place. "A contractor could very easily have come back and said they wanted to split it into a number of parts or make certain changes," says Dempsey. "It took a lot of co-ordination and collaboration between the engineers and ourselves to complete the design to quite a significant extent – to make sure the answer is really the only answer anyone's going to choose."

The final product is a visually arresting, but somehow familiar structure in many ways, that both sits well in its context but breaks with normal pier design to maximise its location for all users. By allowing an architect to take the reins in an unfamiliar typology for them, the client has ensured that achieving a high quality finish has been kept at the forefront. In so doing they've delivered a piece of exemplary new transport infrastructure for London that also gives some exciting public space to the community at large.

According to Dempsey, the project's success has been most visibly demonstrated by a visiting US delegation to a major marine conference in late 2019, who alighted at the pontoon. "They were blown away to see that this was the kind of infrastructure that London produces." This pier is an important part of attracting more users to what is a much more pleasant, as well as effective, means to get around the city. ■

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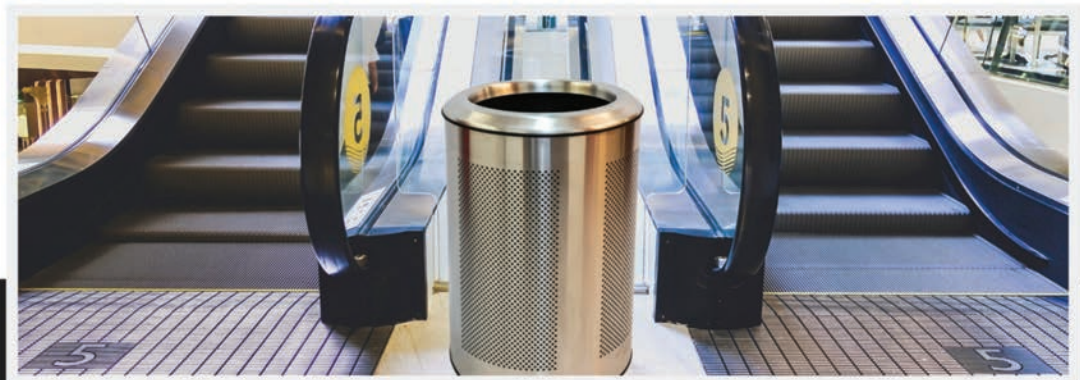
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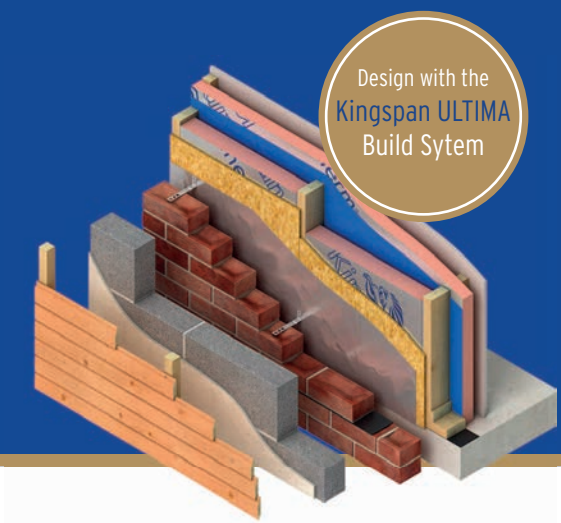
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CUPA PIZARRAS' slates complete cottage



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Aluminium curtain walling sets new standards in house building

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Curtain walling has positive benefits in terms of installation speed and cost. A facade frame of metal, PVCu or timber has vertical or horizontal elements which are anchored to the supporting structure to provide a non-load bearing external wall. Though PVCu is still used extensively in such situations it has drawbacks in terms of expansion and contraction.

Aluminium is highly stable and offers a far longer design life, its inherent strength and light weight enabling systems to be installed in spans of up to ten panels, each a metre wide. On bi-folding sliding doors, slimmer frames provide a sleek, unobtrusive



appearance, a correspondingly larger glazing area removing any obstruction of sight lines to the external landscape. The resulting streamlined appearance is enhanced by the option of a low threshold with 13mm step for compliance with AD Part M.

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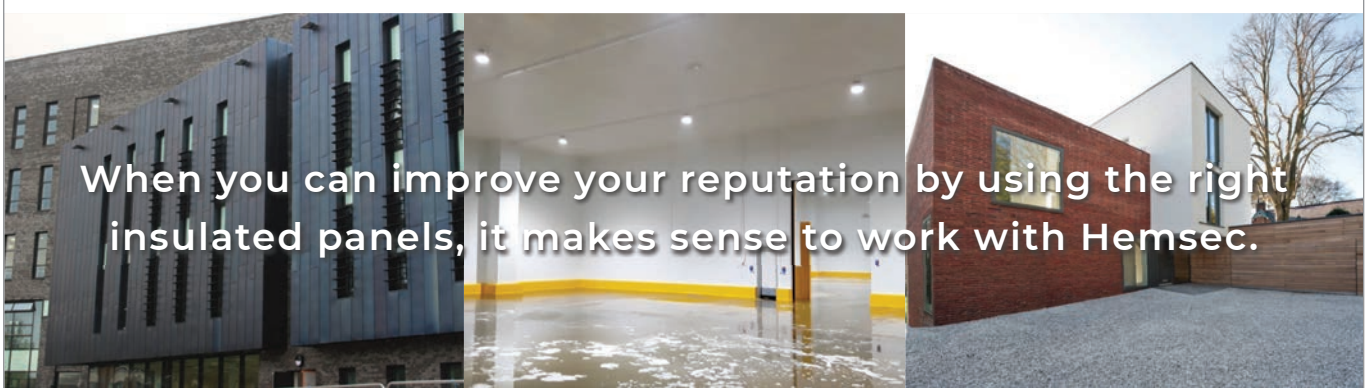
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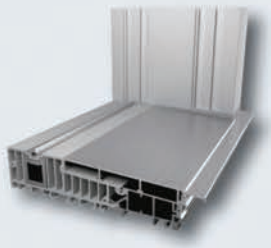




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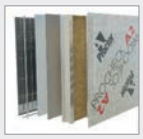


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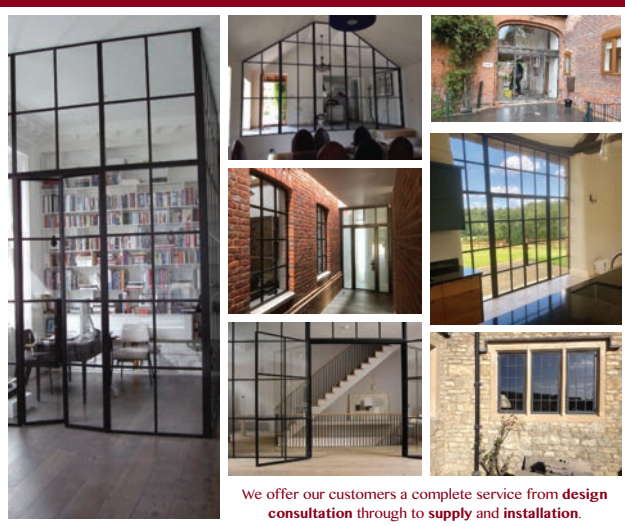
Hardware specialist **VBH (GB)** has added a new tilt & turn system from Italian hardware manufacturer, AGB, to its extensive range of third-party branded products. ArTech gear is protected by the Activeage finish that exceeds 2,000 hours neutral salt spray testing to EN ISO 9227, making it ideal for coastal regions and areas with higher levels of pollution. The ArTech system has been developed for fabrication lines of all sizes, and comes with various hinge options including surface fit, rebated, jigless and the 'Plana' concealed hinge system.

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The Type MPC – Multi-Profile Cavitray from **Cavity Trays Ltd**, is a new DPC tray for use with all styles of metal and concrete lintel over window and door openings. The Type MPC has an L-shaped base to ensure it locates accurately and positively within the external masonry leaf and a vertical-rising section grooved with adjustable hinging points enabling the installer to angle the cavity-rising section to suit whatever lintel type, dimensions and construction configuration deployed. Adjustability, adaptability but with disciplined positive shaping.

01935 474769 www.cavitytrays.co.uk

Senior helps put Capital Quarter on the map



A landmark mixed-use scheme in Cardiff has been given a sleek and striking facade thanks to **Senior Architectural Systems'** SF52 aluminium curtain wall system. Combining slim sightlines and excellent thermal performance, Senior's SF52 aluminium curtain walling was the ideal choice for the extensively-glazed buildings which, designed by Morgan 2 Morgan Architects, benefit from bright and modern interiors and a stylish envelope design. Thanks to Senior's in-house powder coating facility, the SF52 system is available in an almost unlimited range of colours and finishes.

www.seniorarchitectural.co.uk

OPTIM-R appointed for Royal Pavilion



The **Kingspan** OPTIM-R Flooring System has been fitted as part of a landmark development of luxurious apartments facing on to the new central square in the sustainable community of Poundbury. As within all Kingspan OPTIM-R projects, Kingspan provided a specialist design service for the application at the Royal Pavilion. The designers used the architectural floor plan to determine the optimum layout for the OPTIM-R VIPs. Kingspan OPTIM-R rigid vacuum insulation panels (VIPs) have a declared thermal conductivity of 0.007 W/mK, outperforming some commonly used insulation materials by a factor of five.

01544 387 384 www.kingspaninsulation.co.uk/optim-r

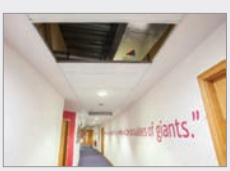
Marmox Thermoblocks specified



A former hotel in the Polwarth area of Scotland's capital is the subject of a complex conversion and reconfiguration project, where **Marmox** Thermoblocks have been specified by the project consultants to address the critical floor/wall junction within the new extensions being constructed. At the base of the new perimeter walls, the block-layers have used a total of 117 of the 140mm wide Thermoblock units each one 600mm long and 65mm high. In addition, the merchant stockist also supplied a carton of 10 Marmox MSP 360 Sealant for the purpose of completing the stepped joints.

01634 835290 www.marmox.co.uk

KoolDuct shows lasting power of innovation



Over 13 years since it was first installed, ductwork fabricated from The **Kingspan** KoolDuct System is maintaining ideal learning conditions at the National STEM Learning Centre at the University of York. With its premium performance insulation core, the lightweight solution eliminates the requirement for a secondary lagging stage – helping to accelerate installations. Ductwork can be fabricated on or offsite in sections up to 2.95 m in length and can be fitted with a variety of coupling solutions to suit the particular demands of each application.

01544 388 601 www.kingspanductwork.co.uk

Sto acoustic system proves beneficial



An integrated acoustic solution from **Sto** has been used to create a balanced acoustic environment for a major Scottish medical training establishment. The StoSilent Distance system has been installed in the main auditorium space at the world-famous Royal College of Physicians of Edinburgh. The StoSilent Distance system incorporates a metal profile sub-construction, onto which the recycled, expanded glass granulate acoustic boards are fitted. This lightweight, monolithic system can be used to create clean, seamless and uncluttered ceiling solutions.

0141 892 8000 www.sto.co.uk



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TROX laboratory air management system installed for Quadram Institute

A dedicated laboratory air management system, supplied by TROX, has been installed to optimise safety and environmental performance in a major new clinical and research facility. The TROX EASYLAB system, incorporating TROX VAV controllers, specialist filters, grilles and diffusers, will assist Norfolk-based Quadram Institute to meet the stringent requirements for its world-class research.

To meet the complex and critical air management demands of the project, BuroHappold Engineering and SES Engineering Services worked in close co-operation with TROX UK to design and install the air management systems for the new site.

During the design phase, wind tunnel testing was carried out to determine safe fume efflux parameters for the scheme. TROX also analysed the air terminal device requirements of different zones in the building during the design phase, to determine the best possible



designs of grilles and diffusers to maintain the optimum safe and comfortable working environment for researchers, staff and patients. To account for the specific research operations carried out in separate departments across the site, TROX worked with the design team and other experts to determine the most appropriate HEPA filter cells and diffusers, and installed specific room pressure control capabilities for the Containment Level 3 labs, and volume offset tracking controls for the Containment Level 2 spaces.

The resulting TROX EASYLAB room air management system installed in the new facility ensures that supply and extraction of air is optimised automatically in each laboratory to maintain safe working environments. In addition, TROX Variable Air Volume (VAV) controllers ensure that the energy efficiency of the building's central air conditioning and cooling system is also optimized for best-in-class environmental performance across the site as a whole.

Ian Thomas, Product Technical Manager – Air Products at TROX UK, commented: "The Quadram Institute will be carrying out essential research and it was important that the building itself could operate safely at all times, with advanced control of air supply and extraction to meet the stringent requirements. The TROX EASYLAB system will enable the Institute to continue its vital work, confident in the knowledge that the best possible systems are in place to ensure best-in-class performance."

01842 754545 www.troxuk.co.uk



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Innovative underfloor air conditioning used in award-winning renovation

AET Flexible Space was contracted to supply the innovative underfloor air conditioning (UfAC) system to 24 St James Square. The brief for AET was to maximise floor-to-ceiling heights within the constraints of the original building while providing flexible air conditioning at each floor plate.

The office space within 24 St James Square was no longer fit for purpose and required significant refurbishment. The remodelling of the office interiors at all levels was driven by seeking to maximise floor space and take full advantage of views from the double aspect interior.

In almost all cases, AET's UfAC system met the requirements of this refurbishment, and in any cases where the standard system did not meet the specification, AET was able to design bespoke elements to solve the problems. Crucially, key architectural elements of the building were preserved, including the original ceilings.

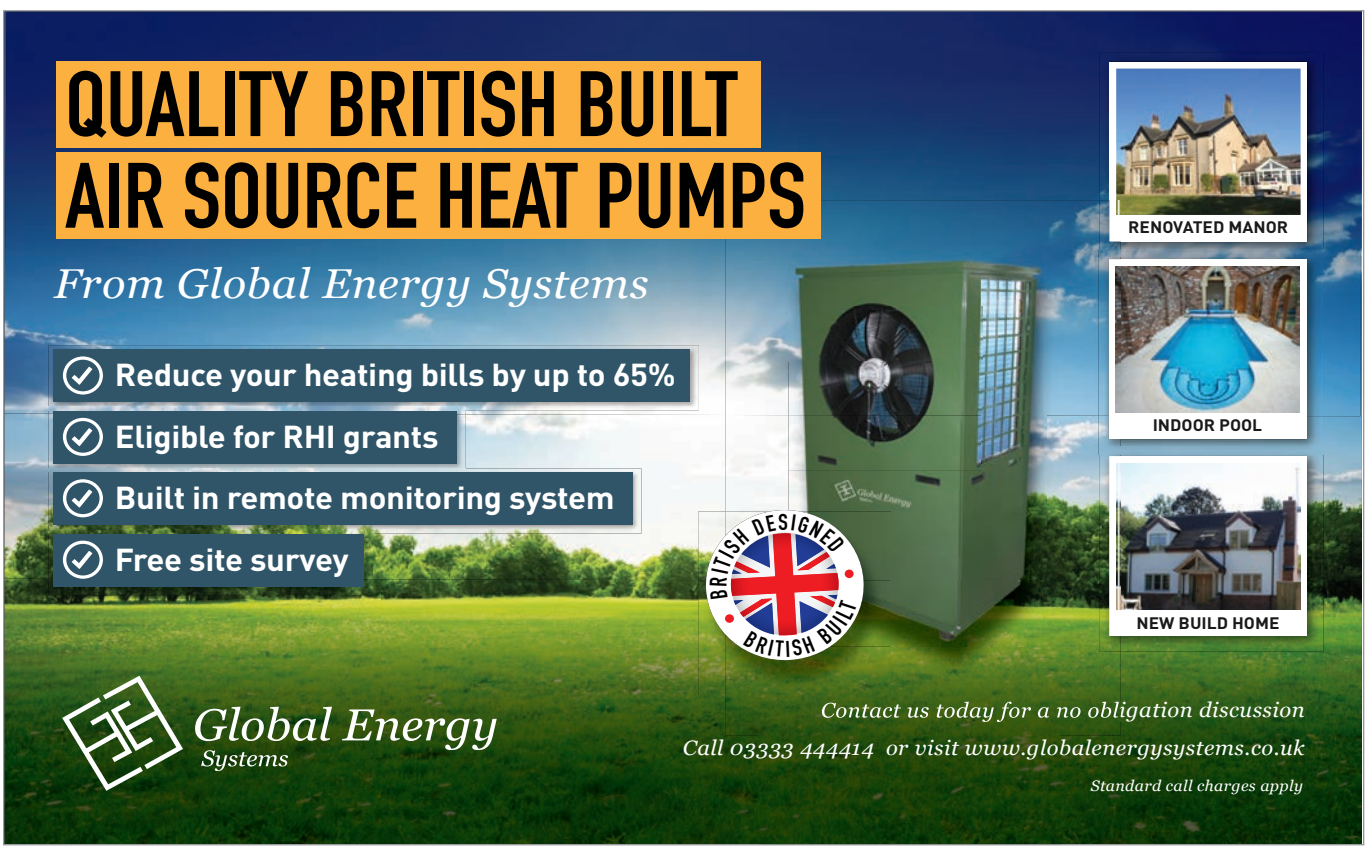




AET's UfAC CAM-V system makes use of the space beneath a raised access floor to create the air ventilation path, eliminating the need for ceiling-based services and associated duct and pipework, and at the same time maximising the floor to ceiling heights. The underfloor system creates a brighter and more airy office environment, and also means that the services can be maintained at an easily accessible level. AET's UfAC systems provide far greater flexibility than ceiling-based air conditioning systems. Once an overhead ceiling air conditioning system is installed it is not possible to easily reposition the air terminals. AET 's UfAC system is very flexible, modular in design, and are installed at floor level, making it easy to install, maintain and re-arrange to suit the changing needs of the workspace. AET's Fantiles can easily be relocated, offering huge savings when reconfiguring and adapting workspace.

The 24 St James project has already won the "Best Office Architecture London" award at the 2019 International Property Awards.

01342 310400 www.flexiblespace.com



Cooker hood with MVHR provides fresh air



Vent-Axia has supplied ventilation to the impressive Clippers Quay in Salford. Vent-Axia ventilation systems were specified to provide good indoor air quality (IAQ) for all 614 apartments. 550 Lo-Carbon Sentinel Kinetic Cooker Hoods and 64 Lo-Carbon Sentinel Advance mechanical ventilation with heat recovery (MVHR) units were specified to provide ventilation. The Vent-Axia Cooker Hood was the ideal choice as it combines a cooker hood and MVHR in one unit and it met the specified overheating and strict noise requirements.

0844 856 0590 www.vent-axia.com

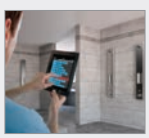
Deanestor completes bespoke contract



Deanestor completed a £1.5m contract to manufacture bespoke furniture and fit out over 200 rooms for the first new secondary school to be built in Scotland in more than 25 years. More than 8,000 items of equipment were supplied and fitted for Bertha Park High School, including teaching aids, sports equipment, raised bleacher seating and lockers as well as soft furnishings. It manufactured around 1,200 items of bespoke fixed and loose furniture across the school, which included 1,200m of shelving, 300m of worktops, 350 cabinets and over 150 purpose-designed seating booths for the learning plazas and other areas.

enquiries@deanestor.com

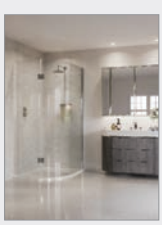
Efficient water management with CONTI+



Functional safety and ease of maintenance are a pre-requisite for large-scale facilities where systems must be kept running smoothly and germ-free. The introduction of the CNX water management system from **CONTI+** to the UK brings a system scaleable to the most extensive facility with working installations already controlling germ contamination across Europe. Up to 150 taps, showers or urinals can be wirelessly connected to one control box with settings such as hygienic flush and thermal disinfection controlled in the intuitive software. Discover more or request a CPD. Contact Paul Musgrove, CONTI+ UK Development Manager.

paul.musgrove@conti.plus conti.plus

DS660 screen from AQATA



The DS660 screen is the latest shower screen from **AQATA**. This new design has hinged panel attached to the curved glass screen, creating a more expansive area whilst keeping the showering space secluded from the rest of the bathroom.

This makes the new screen a discreetly desirable showering solution for any mid-size to large bathroom. Adding to its stylish appeal it is available with coloured finish options of chrome, matte black, polished gold, polished nickel or brushed nickel.

01455 896500 www.aqata.co.uk



Winter Warmers – Assurance for your heating systems, all year round

Arrow Valves Ltd have introduced new product packages – specifically for commercial heating systems. Installations need to be designed so that we control the maximum temperature that the system reaches, but we also need to have adequate management in place should this maximum be exceeded.

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We can provide help with vessel sizing – our website features a handy guide to vessel sizing, based on a radiant system with a flow and return of 82°C / 71°C and a static head of 10 meters. We can provide you with a more accurate calculation based on more system parameters: static head (m), flow and return temps (c), boiler output (kw), working pressure (bar) if you can provide these values.



For more information please call or visit the website.

01442 823123
arrowvalves.co.uk

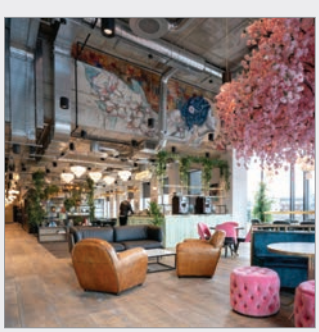
A sound solution from Carl F Groupco



Carl F Groupco has supplied AEROPAC ventilators to Dyer Mackay Developments Ltd for a new housing scheme in Thaxted, Essex. Having successfully trialled the AEROPAC, the powered ventilators have been installed into the development which is called 'Maypole View' and comprises nine terraced houses, each with three bedrooms. The recommendation for the AEROPAC, which offers excellent sound insulation and air flow, was provided by a consultant specialising in noise and acoustics. With enhanced acoustics for virtually silent running the AEROPAC is capable of moving large volumes of fresh, draught-free air using minimum energy. Carl F Groupco advises that other key features of the AEROPAC, manufactured by Siegenia, include optional filters to protect against pollen / fine dust and an active carbon filter to keep out exhaust fume odours. The powered ventilator is popular across a number of sectors and has particular appeal for properties located near busy roads, train lines and on flight paths. Security is also enhanced, particularly overnight, as ventilation can be achieved without the need to leave windows open.

01733 393 330 www.carlfgroupco.co.uk

Gilberts helps delivering pioneering standard of wellness in Ireland



Ventilation from **Gilberts Blackpool** has helped the Lennox Building become the first in Ireland to achieve WELL v2. The Dublin office block was pre-let to shared workspace provider Iconic Offices before it was even completed in mid 2019. Now, the fit out has been completed; building services specialist Keane Environmental recommended ventilation grilles from Gilberts Blackpool to provide quality fresh air with thermal comfort throughout the three-storey premises. Some 125 no GSFE circular fixed swirl diffusers with 800mm coanda plates have been fitted to exposed ductwork throughout the ground floor reception and restaurant, plus the office spaces and meeting rooms above, totalling 27,000ft². Gilberts' GSF diffusers feature a copyrighted circular pattern of radial vanes to optimise omni-directional discharge airflow horizontally. The vane configuration in Gilberts' diffusers enables delivery of high air change rates compared to conventional diffusers, with rapid entrainment and intermixing. Gilberts' GSF swirl diffusers are just part of the company's range of grilles, louvres and diffusers for natural and mechanical ventilation.

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New Transition Profiles: TopClip



Quantum Flooring Solutions' main transition profiles for safe junctions between floorcoverings are now known as TopClip – the evolution of a great design. The new TopClip range has four clip-in transition profiles that are easily fitted onto Quantum's renowned base technology. The transition tops have extra teeth, which allows them to be clipped onto the bases at three different heights. This upgrade to TopClip transitions means that Quantum's profiles can now be used to form a clean and safe junction between practically any variation of different floorcoverings. All TopClip profiles can be fitted onto all of Quantum's uPVC and aluminium transition bases. The material used for the new transition tops is proven to be slip-resistant and hardwearing. A more streamlined, clean design finish with flatter tops lessens the chance of trips. Plus, improvements in production techniques make TopClip profiles more durable than ever. Quantum's profiles are still quick and easy to fit, with the high impact clip ensuring peace of mind for the installer. TopClip has an expanded colour range, with 24 colour profiles now available for the transitions.

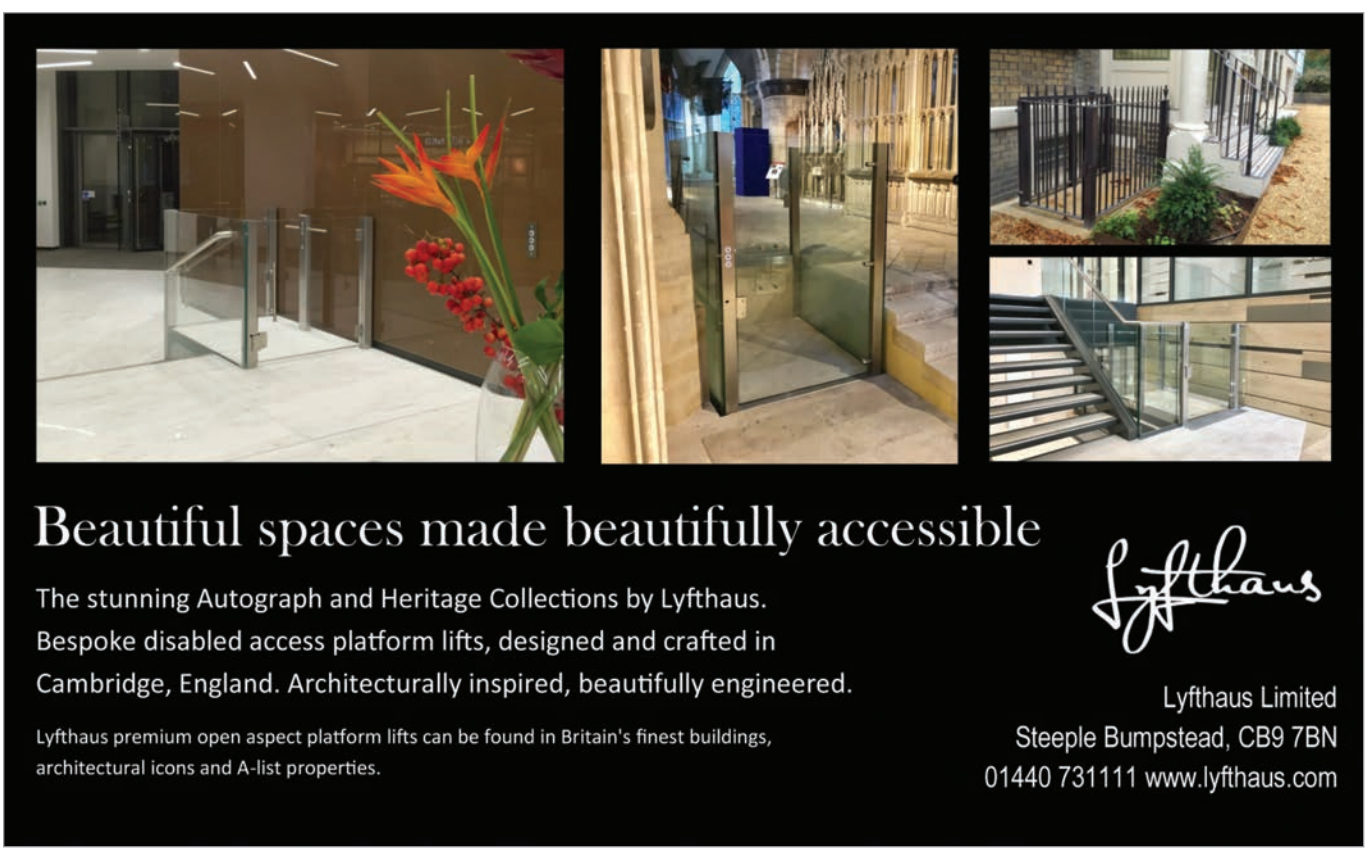
0161 627 4222 www.quantumprofilesystems.com

Read all about it! Luceco lights the Daily Mail Group break out kitchens and tech bar



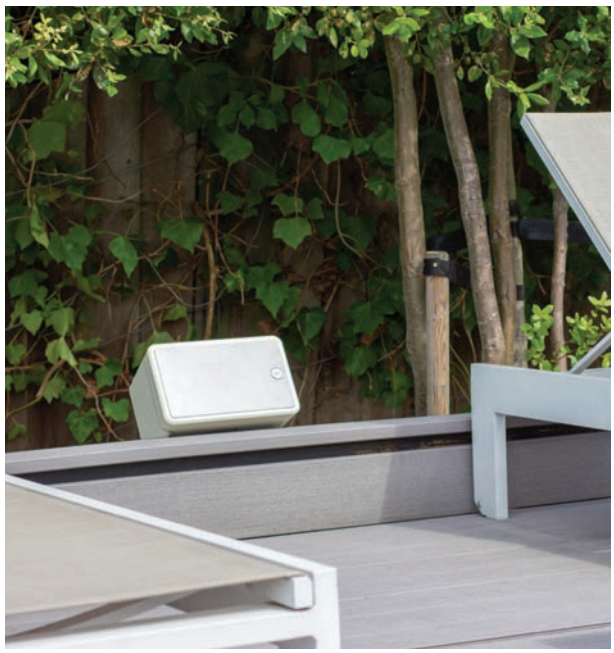
Luceco in partnership with Powerbase Building Services Limited has recently supplied The Daily Mail Group with cutting edge LED lighting for their Break Out Kitchens and Tech Bar located at their London Headquarters. Luceco's Contour LED luminaire was artistically installed in amongst timber beams to provide sympathetic energy saving lighting which enhanced the architectural features of the interior design of the facilities, the body of the luminaire displayed in Matt Black. Contour from Luceco is a linear luminaire providing individual or continuous runs of illumination suitable for many commercial environments. The LED lighting system consists of connectable modules offered in 600 mm, 1200 mm, 1500 mm and 1800 mm lengths that can be surface mounted, suspended or recessed. Seamless runs of energy saving cost effective LED lighting can be created with interconnecting power and module connectors. The Tech Bar required a more modernistic approach with Contour providing an architectural element to the design of the area with the body of the luminaire displayed in Graphite Grey.

01952 238100 www.luceco.com/uk











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British loudspeaker designer, Monitor Audio, has a range of Custom Install speakers for every situation. Their ultra-discreet in-wall and in-ceiling speakers deliver a stunning audio performance whilst protecting the room's décor. For more extreme environments, such as outdoor terraces or pool rooms, they offer a choice of speaker ranges, all of which deliver Monitor Audio's award-winning sound.



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monitoraudio.com/install

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CCL Wetrooms launch Tilesure

CCL Wetrooms have launched Tilesure, a new Butyl Waterproofing and Decoupling Membrane, suitable for waterproofing wetroom floors on timber and solid floors. Tilesure is an evolution of the market leading RIW Tilesafe bitumen-based membrane. Tilesure is a 1.4mm self-adhesive membrane containing a copolymer layer and polypropylene top fleece. The new membrane has superior decoupling properties of up to 12mm, ensuring that any movement in the floor substrate is accommodated, preventing the grout and floor tiles from cracking. Thanks to butyl's durability and greater temperature tolerances, Tilesure can be installed simply and easily on-site at all temperatures. Tilesure is quick and easy to apply and once installed, is ready to be tiled upon immediately. Tilesure is compatible with silicone sealants and creates a secure waterproof barrier that is guaranteed to remain waterproof for the life of the wetroom tiles. To view the installation of Tilesure Waterproofing & Decoupling Membrane, why not take a look at the latest short animation from CCL Wetrooms, which brings the process to life. Simply scan the QR code.

0844 327 6002 www.ccl-wetrooms.co.uk

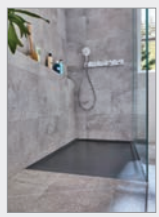
Happy D.2 Plus from Duravit



Happy D.2 Plus, is a unique collaboration between Sieger Design and **Duravit,** the bathroom series takes inspiration from the archetypal open oval format of the original Happy D design classic. The new series includes bath tubs, curvaceous above the counter wash bowls, consoles and matching cabinets in a variety of colours and striking surfaces. Circular mirrors add a chic energy to the washing area, combined with the new colour variants the Happy D.2 Plus brings a vibrant energy to the bathroom.

01908 286680 www.duravit.co.uk

Add colour in the bathroom with Kaldewei



Kaldewei's enamelled Cayonoplan shower surface adapts to many different structural requirements. For instance, if adequate height is available it can be installed at floor level or directly on top of the floor tiles. Thanks to 22 different dimensions, its laterally-positioned waste outlet and ultra-flat tray support for the easiest possible assembly, the Cayonoplan is the ideal solution available in a generous range of sizes, colours and optional anti-slip finishes. All Kaldewei steel enamel bathroom solutions are 100 per cent recyclable and are supplied with a 30-year guarantee.

01480 498053 www.kaldewei.co.uk



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The wellness factor

Sophie Weston at Geberit explains the role that architects and designers can play in improving wellbeing, by helping create a sensory 'sanctuary' in the bathroom

Wellbeing. We all know what it is – but just how many of us truly achieve it? When Geberit recently commissioned some research to establish the impact of wellbeing in the home, we found that three quarters of respondents had felt so stressed within the last 12 months they were simply unable to cope – and the problem was only made worse by the same number telling us that they struggled to find the time to relax. When we consider, too, that we now spend 90 per cent of our lives indoors, then this space will naturally have a dramatic impact on our wellbeing.

This is where design comes in. Good design is increasingly less about the aesthetics and more about the impact that the space has on our lives, and adopting a multi-sensory approach and considering how we can improve both mental and physical wellbeing. And, with our research telling us that the most popular place of refuge for homeowners was the bathroom, there is a real opportunity for designers to create bathroom spaces that offer moments of tranquillity and escape in this otherwise hectic world.

Finding the formula for space

Bathrooms, often harsh and sterile places with poor acoustics and cold surfaces, can easily be transformed into softer and more sensory places of recuperation.

Typically, the main areas of focus within bathroom design include materials, textures, colours and patterns. However, there are other aspects that also warrant consideration. To do this, designers must first understand the four key senses; auditory (sound), visual (sight), kinaesthetic (touch) and olfactory (small) and the impact that these have upon wellbeing.

Establishing a sensory space

Let's start by looking at the visual sense and the impact that lighting has on us – in particular preserving the sanctuary of sleep. Preventing overstimulation of this sense can be achieved through opting for automatic lights that cast soft light onto features such as smart shower toilets and cisterns featuring orientation lights that guide users around the bathroom space.

Consider, too, auditory – an extremely powerful sense and one that is constantly working to decipher information. Our ears work even when we're asleep, with the brain continuing to process the sounds it detects, albeit in a different way. And when we are awake, we need to consider the impact that irritating sounds could have on our mental wellbeing – a dripping tap or traffic noise, for example.

Managing the acoustics within a bathroom is key, and there are several ways to ensure noise is contained within a space, both inside the room and behind the scenes.

Often overlooked, scent, which is processed in the olfactory cortex of the brain's limbic system, has a strong effect on our experiences. Naturally, this can have a negative effect in the washroom. Lavatory odours are generally dealt with by masking unpleasant smells with harsh chemical sprays. The latest thinking in odour extraction technology takes a more innovative approach, filtering the air within the space to neutralise unwanted odours, with the technology integrated seamlessly into the washroom solutions and, therefore, in a way that's unobtrusive to the design.

Finally, a deeper understanding of the importance of touch has allowed bathroom designers and manufacturers to adapt and embrace the ways in which we interact with our spaces and the technology within them. From heated toilet seats and remote controls to hygienic, presence-detecting flush mechanisms and no-touch taps, many bathroom features are becoming even more user-friendly and tactile.







Good design is increasingly less about the aesthetics and more about the impact that the space has on our lives, and adopting a multi-sensory approach for mental and physical wellbeing

Creating a sanctuary

Architects and designers have the perfect opportunity to deliver washroom solutions that provide an antidote to our 'always-on' society and a shot in the arm for our health and wellbeing. With a greater societal focus on how we can help combat the stresses of modern life, good design in the bathroom or space could be the key to unlocking better lives. And it is critical for architects and designers to be aware of t his opportunity.

Sophie Weston is channel marketing manager at Geberit

Stelrad launches augmented reality app



The new AR Radiator App is free and can be downloaded from the App Store for Apple and Google PlayStore for Android phones by searching for **Stelrad** 3D. The Stelrad 3D radiator visualiser app shows the Vita Series, Softline Series and towel rails in an easy to use radiator app. The range of radiators available from Stelrad is growing and its helpful to be able to see these new options via the App actually against a real wall in a project or placed in a room in a new development for example.

0844 543 6200 www.stelrad.com

Offsite Solutions awarded £2.5m contract



Offsite Solutions, one of the UK's leading bathroom pod manufacturers, has been awarded its second contract for Moda Living – a £2.5m project to manufacture 478 steel-framed shower pods for The Lexington in Liverpool. Offsite Solutions has developed the stylish shower pods to Moda Living's specification which includes contemporary grey porcelain tiling throughout, square wall-mounted wash hand basin, and deluxe-sized, thermostatically-controlled rainfall shower with separate hand-held shower. A cabinet recessed into the wall adds a sleek finish and clean lines to the shower rooms.

info@offsitesolutions.com

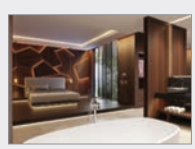
VBH provides a safe greenteQ exit



Award winning hardware specialist **VBH** has added Anti-Panic emergency exit and panic hardware to its greenteQ range of products. Manufactured in Italy, which is well known for its expertise in this sector, the range consists of panic bolts and panic latches in cross-arm and push-pad versions, and is available from VBH stock in white and silver finishes. Touch bars, mortice and electric devices, and other finishes, are all available on a special order basis. Panic latches are available as either single-point or 3-point versions. greenteQ Anti-Panic devices are reversible, cutting down on a fabricator's stock holding and eliminating handing errors.

www.vbhgb.com

Häfele to showcase design innovations



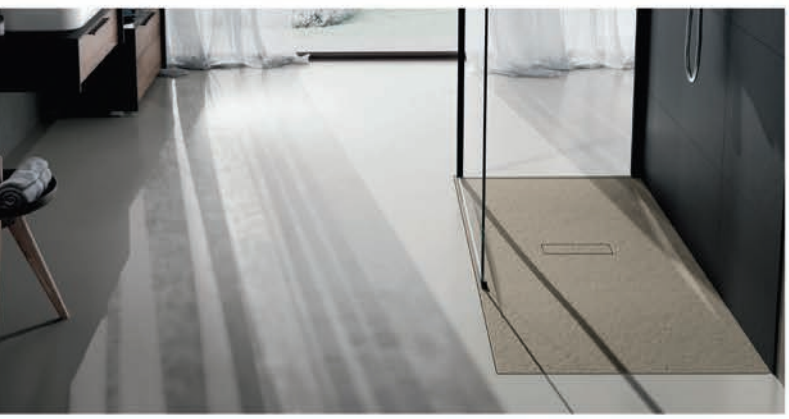
Global manufacturer and distributor, **Häfele**, is set to have one of its biggest kbb shows yet as it celebrates its 40th anniversary in the UK and unveils some of its latest innovations, trends and services for architects, designers and specifiers. Loox, a plug and play lighting system from Hafele, will take centre stage at the show in Birmingham and will include a wealth of new extensions to the range. Wireless wall switches, pre-programmable lighting scenes for different colours and concentrations, and a black version of the ribbon lighting are just some of the enhancements that will be showcased in March.

0800 171 2909 www.hafele.co.uk

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Colourful, practical door protection for radiology department

The Northern General Hospital in Sheffield chose Yeoman Shield fire rated door protection systems to refurbish doors in the Radiology Department.

The configuration and refurbishment of the department was undertaken to improve patient flow, the overall environment and to rationalise inpatient and outpatient areas to satisfy privacy, dignity and capacity issues.

Yeoman Shield's (Harrison Thompson) directly employed fixing operatives, who have been assessed as being competent to install such passive fire-resistant products by FIRAS, installed fire rated door protection panels, PVCu clad Glazing Bead Units and Door Edge Protectors to various doors throughout the unit.

The addition of these products will prevent impact damage, extending the lifecycle of the doors in turn reducing the amount of time and money spent on repair and replacement, whilst contributing towards an aesthetically pleasing environment.





The doors in the hospital's radiology department were required to be colour coded to reflect the actual department area functions e.g. Fluoroscopy rooms denoted by Yellow.

With a wide colour palette available from Yeoman Shield, the door protection was able to be supplied in corresponding colours, adding to the design and function of the department.

0113 279 5854 www.yeomanshield.com



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Sustainability and Sound Design at The Chamberlain Hotel



When interior design company Sibley Grove was appointed to re-design the public areas at The Chamberlain Hotel near Tower Hill in London, sustainability was paramount. The company ethos states that design should be a vehicle for positive change – both environmentally and socially. Consequently, to help achieve this, **Troldtekt's** wood wool panels make an important contribution to the overall design of the luxurious interpretation of an industrial basement bar. The designers were keen to specify as many sustainable and Cradle-to-Cradle certified materials as possible such as wall and floor tiles, timber, carpets and Troldtekt's wood wool ceilings (certified to Silver Level). By specifying these products, the environmental impact is minimal and also that, if and when the time comes for a change, the materials can be reused, re-appropriated. recycled or upcycled. Specified throughout the UK and Europe, the benefits of 100 per cent Troldtekt natural wood wool panels include high sound absorption, high durability, natural breathability, low cost life cycle performance and sustainability. The panels can be left untreated or painted in virtually any RAL colour.

www.troldtekt.co.uk

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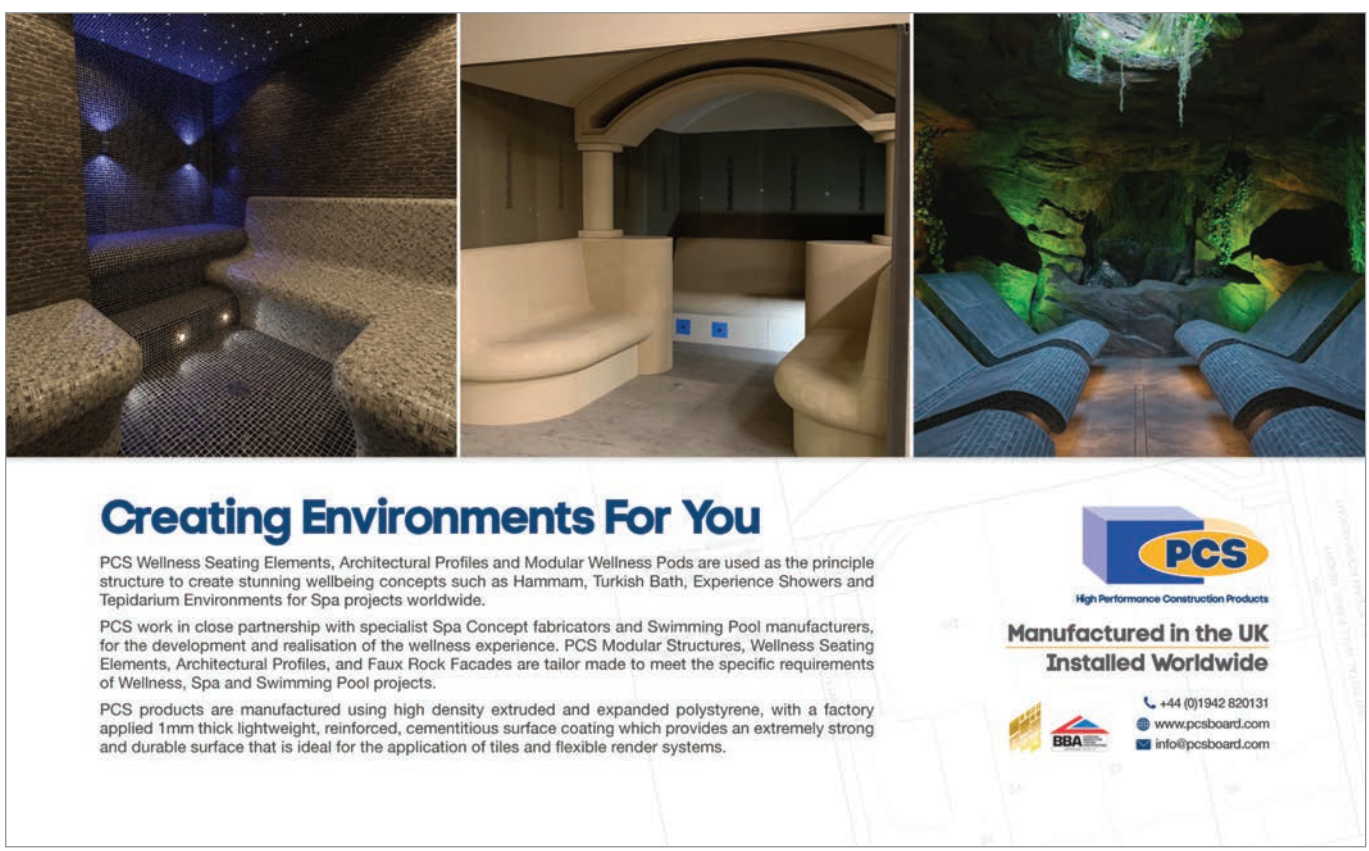
0118 923 2696 www.pressalit.com

PCS used in Forest Spa Experience



PCS Wellness Seating Elements, Heated Loungers, Modular Wellness Pods and Faux Rock Realisation were used in the creation of the new £6m Centre Parcs Forest Spa Experience at Longleat. PCS worked in close partnership with Specialist Spa Concept manufacturer Anapos, on the development and construction of the next generation wellness experience. PCS engineers and technicians fabricated the rooms, loungers, and seating elements at its UK based factory, meeting the specific design requirements of the client.

01942 820131 www.pcsboard.com









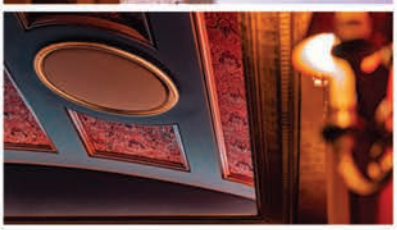
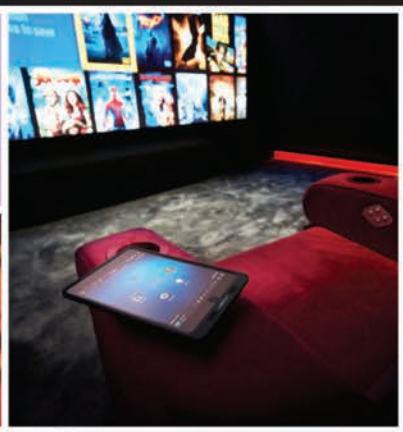
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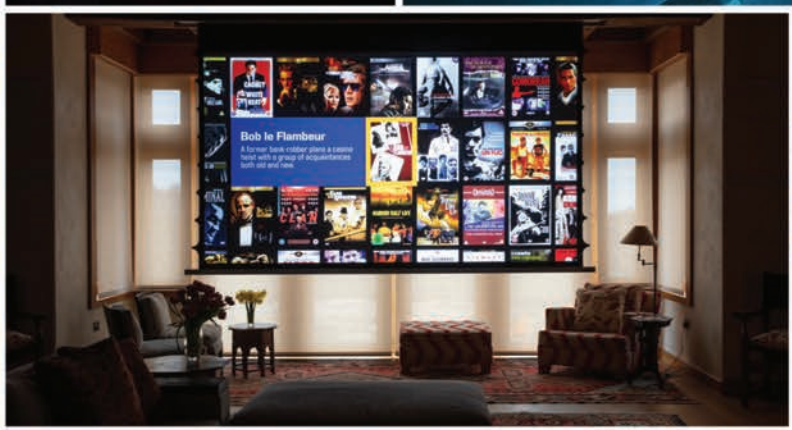
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Optometrist does away with racks of frames to provide an environment focussed on eye care

Valarie Jerome, is the eponymous name of a new optometrist in Newbury, Berkshire. With a focus on eyecare advice and guidance, rather than just the sale of multiple frames, the challenge for interior designer Vicky Tallon, was to reflect this different philosophy in the business' premises. Vicky and Valarie were soon joined in their design discussions by Clare Sheffield, brand design consultant at Strong & Together.

"Valarie had been thinking about establishing her own business for some time and had some clear ideas about what she did and didn't want in her premises;" explained Vicky. "There are obviously certain 'must haves' that have to be incorporated when designing an optometrists eg a comfortable and relaxed waiting area for patients, an administrative area, somewhere for frames, to be displayed and, of paramount importance, the clinical consultation area. Combining these into a relatively small area, that





allowed people to move easily to the different functions, took some careful design. It meant reconfiguring the interior to allow a smoother passage through the various stages of a visit along with significant changes to the external fascia."

The result is a calm, chic boutique ambiance, that includes clean, white lines accentuated with light, copper coloured, industrial style display elements. The spherical shape of an eye's pupil is reflected in many of the design components, not least the business logo, and the decoration on the rear wall of the main area.

Vicky Tallon, interior designer, said: "Working with Valarie and Clare has been really rewarding. Valarie knew what she didn't want and Clare really understands that a brand is not just a logo. The whole process has been both stimulating and enjoyable and I think that energy and synergy is reflected in the in the final look and feel of the business."

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The new Concord Beacon Muse Xicato from **Sylvania UK** is a best in class spotlight for colour reproduction. The Beacon Muse Xicato utilises the Xicato Artist LED module and boasts improved optical control, ultra-high colour rendering. It provides an exciting accent and display lighting tool that uses cutting-edge LED technology and ancient lens principles to create a fully adjustable spotlight. With its impressive CRI of 98, the Beacon Muse Xicato spotlight ensures that all 99 TM-30 colour samples can be showcased in their full vibrancy. It is the ideal spotlight for museum, gallery and retail applications.

www.sylvania-lighting.co.uk

Monitor Audio – IMS-4 music streamer



Monitor Audio's slimline IMS-4 custom install music streamer features BluOS™ technology and a BluOS Controller app for complete flexibility, including streaming from music services, easy access to music libraries and voice control through smart devices. Accessed through its app, or one of the many supported control systems, multiple IMS-4 music streamers can be integrated with other BluOS devices to provide up to 64 zones of music, with each zone able to play together in perfect sync or deliver different streams to separate zones. And, BluOS allows streaming of lossless music up to 24-bit/192kHz to every room.

01268 740580 www.monitoraudio.com

Klimatec 160 Passivhaus certified loft ladder



Product data for the Klimatec 160 loft ladder from **Premier Loft Ladders** is now available for architects to download from NBS Plus. It can be found within section L30 (clause 41 and clause 421). The Klimatec 160 is a high-specification loft ladder that is not only certified for use in Passive buildings, but also offers 30 minutes fire protection. Furthermore, it features a folding steel ladder that has a load rating of 250kg per tread. As such, the Klimatec is ideally suited to both residential and commercial projects. Visit www.premierloftladders.co.uk/klimatec

0345 9000 195 sales@premierloftladders.co.uk

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When DPG Media, the Belgium parent holding company of the commercial TV channels VTM and Q2, renewed the studios for its radio channel Joe, it chose the award-winning HeartFelt® from **Hunter Douglas Architectural** for the ceilings. Not only does HeartFelt® have unique sound-absorbing performance, which meets the particularly high acoustic requirements for a radio studio, it also radiates playfulness and openness – just like the station itself. The space between the felt slats also allows air ventilation pipes to be installed invisibly above the ceiling.

01604 648229 www.hunterdouglas.co.uk

Made with passion: Forbo's Allura collection



Forbo Flooring Systems has refreshed its Allura Luxury Vinyl Tile collection, one of the most popular brands in its extensive portfolio. With more than 120 contemporary designs and a new acoustic offering, the revitalised range enables designers to create beautiful floor spaces and better indoor environments, no matter what the project requirements or budgets may be. Developed by Forbo's in-house team of passionate creators and produced in Europe by Forbo, the new Allura collection pushes the boundaries of design and manufacture.

01773 744 121 www.forbo-flooring.co.uk/allura

Gilberts rise to smoke evacuation challenges



The "best yet" is how **Gilberts Blackpool** is describing its latest range of smoke evacuation dampers for multi-storey buildings. The UK's market leader in the sector, Gilberts is taking its reputation to new heights with its new Series 60 smoke evacuation damper range. Believed to be the only vent of its kind designed and manufactured in the UK, Series 60 offers what Gilberts claims will the biggest standard range of EN12101-8 compliant fire-tested dampers. The initial launch will soon be available and will provide seven sizes, from 440mm x 440mm up to 1000mm x 1125mm, and all CE marked to EN12101-8; further sizes in just 1mm increments will follow. Series 60 combines a low leakage rate and high free area when open to deliver high smoke evacuation rates. Activation (by powered motor) is triggered to open the damper on the fire floor for smoke evacuation, whilst all other dampers failsafe close to protect the rest of the building. The damper has been tested and will provide 120 minutes' fire integrity. An easy fit, cover grille completes the installation. A range of bespoke- designed fascia grilles are available are standard; decorative versions are available.

01253 766911 info@gilbertsblackpool.com



Osmo UK enhances existing TopOil range



Osmo UK, the eco-friendly wood and finishes specialist, has enhanced its TopOil product offering with the introduction of three new finishes; White, Terra and Graphite. The TopOil product range now features seven colours, including clear matt, satin matt, natural matt and acacia matt. The three new shades allow Osmo UK to provide its customers with a colour option to match all current interior design trends. An ideal choice to accentuate the natural beauty of wooden surfaces, TopOil consists of natural plant oils and waxes. The finish works by penetrating the surface of the wood to enhance the existing characteristics and grain.

www.osmouk.com

Norcros strengthens floor preparation range



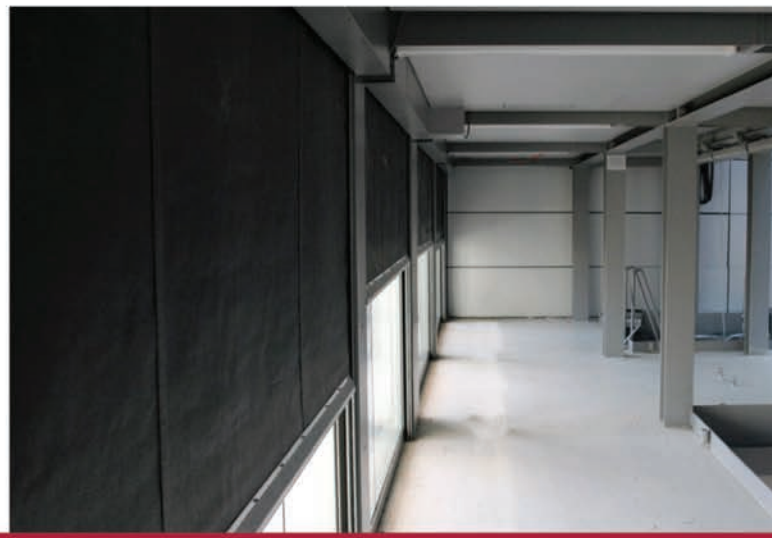
Norcros Adhesives is strengthening its range of paint-on floor preparation products with the launch of Norcros Pro DPM. The product is a solvent-free epoxy-based surface DPM and moisture vapour suppressant, designed for use on concrete or sand: cement screed floors, to which it has excellent adhesion. It is particularly suitable for fast-track building projects, since it allows for the early laying of floor coverings. Norcros Pro DPM joins the existing line-up of other paint-on solutions including Key Bond, Pro-Gyp Base and Pro Moisture Suppressant.

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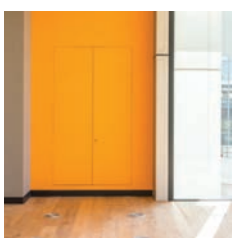
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Automatic for the people

Ken Price of the Automatic Door Suppliers Association looks at how access control is fast becoming part of a bigger 'automatic solution' – linking access control with automatic doors for improved safety, security and smart facilities management

You only have to watch *Mad Men* to realise sales and marketing moves with the times and evolves within the era it operates. During the 60s and 70s, we demonstrated how products worked, in the 80s and 90s as media channels and customers became more sophisticated, we focused on behaviours. Today, we use our understanding of customer requirements to shape the 'offer' of tomorrow – identifying problems and developing solutions enabled by technical advancement, which allow greater opportunities for integration.

This is particularly true of the automatic door and access control sector. Once thought of as very different beasts, manufacturers are now recognising their symbiotic relationship, supported by the likes of BACnet and KNX operating systems which have enabled access and security solutions that easy to control and can form part of an integrated building management system.

In isolation, both product types have earned their place within key requirements. Powered pedestrian doors facilitate accessibility, control environments, support fire strategies and enhance building security. Access control systems enable improved security, controlling and regulating access, and flow of people to a building or sections within it.

The correct specification of access control is imperative. It is important to identify what type of system is required: what it needs to achieve, who are the predominant users, and what access levels need to be set.

There are four principal systems: stand alone, proximity reader access, networked, and door entry.

Stand-alone systems are by far the most cost-effective means of controlling access to premises. All of the equipment necessary to successfully secure an entrance is localised to the door and access is granted upon presentation of a valid code. A pre-determined code is manually entered into a keypad, which sends a signal to the door, granting access for a short period of time.



A proximity reader works in conjunction with a proximity card and an access control panel. The reader emits a small electromagnetic signal known as an 'excite field.' When an authorised proximity card is brought within that field, it absorbs a small amount of energy, effectively switching the card on. It transmits a unique number to the reader and verifies this with the control system.

Networked systems are complex but provide a platform for significantly greater customisation – determining security levels and monitoring usage. With a network system, all locally controlled doors are wired together, creating a communication path managed by a computer interface, which runs specific access control software. This offers higher levels of security that can meet the requirements of each specific area and can often be managed by a remote control on a PC or mobile device.

A typical networked system can be programmed for mandatory or role-based access. Mandatory systems provide access to classified personnel and are commonly

As security demands increase against a backdrop of societal threats such as counter terrorism, industrial espionage and the need to protect vulnerable people and children, our solutions and systems need to speak to each other effectively





used within police or military establishments. Role based is more often used in larger organisations where security is extensive but granted based on individual roles. The advantage here is that screening can be reduced for those people requiring access to non-secure areas.

Door entry systems are utilised on secure doors through which visitors cannot gain access via the access control system. They allow visitors to draw attention to their arrival via a call button, which alerts a security desk or reception to their presence. Call panels can be speaker-based but as technology advances, very sophisticated camera images can also be communicated.

Access control systems can be simple or sophisticated – from digital keypads to biometric devices activated by a pre-programmed fingerprint or retina scan.

It's perhaps easy to understand then, why automatic doors and access control products make perfect partners. As security demands increase against a backdrop of societal threats such as counter terrorism, industrial espionage and the need to protect vulnerable people and children, our solutions and systems need to speak to each other effectively.

A powered door operator can be easily programmed to operate as a security door in normal operation but drive to a safe condition in the event of a fire or emergency alarm

There are also practical day-to-day benefits. When combined, they can control door opening speeds, 'hold open' times and closing speeds and forces to ensure that once opened, door return to its secure state consistently.

A common question arises when access-controlled doors also need to be used as an escape route. In such cases, they must allow exit. A powered door operator can be easily programmed to operate as a security door in normal operation, but drive to a safe condition in the event of a fire or emergency alarm.

Ken Price is managing director of the Automatic Door Suppliers Association



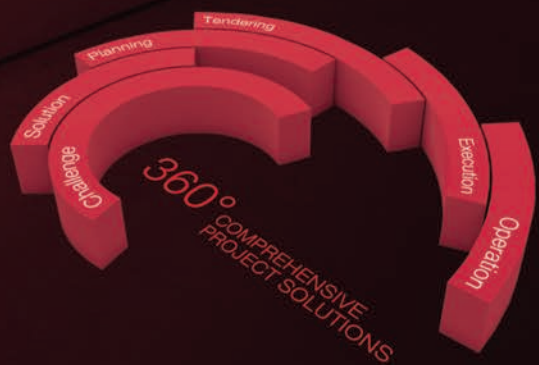
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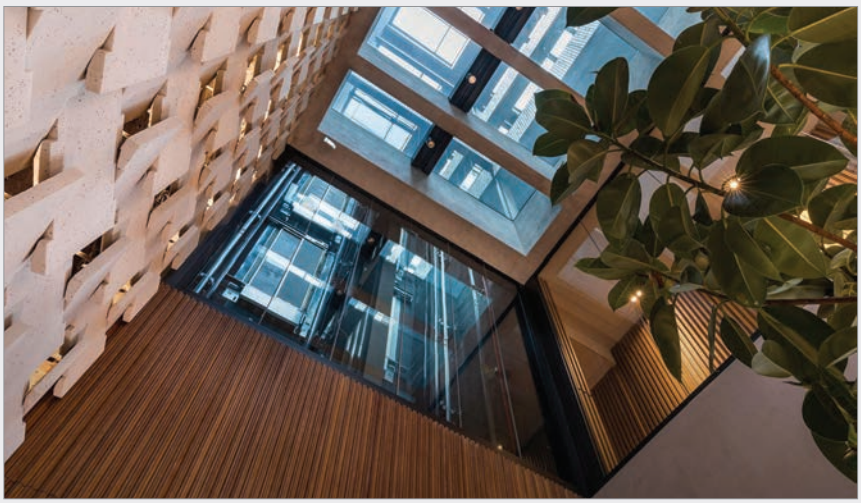
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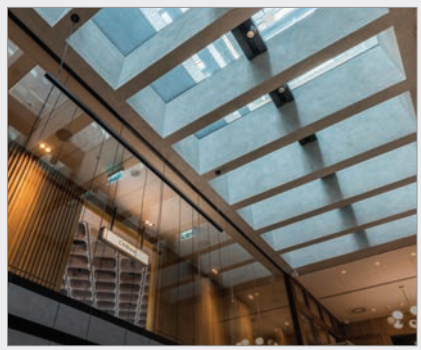
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Enhancing passive fire safety at the Puro Hotel

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As a company focusing on fire-resistant, frameless aluminium systems, we have decades of experience in designing, manufacturing and distributing the highest quality of fire-resistant aluminium joinery.

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Alufire's fire resistant glazing products are used extensively throughout the UK and Europe, protecting a wide range of environments, including public spaces, industry, offices, theatres, education centres and hotels. As the hotel sector invests further in passive fire solutions, we are proud to showcase our recent project at Puro Hotel.



PURO HOTEL, POLAND – CASE STUDY

Client: Genfer
Products utilised – Vision Line, Classic Line doors
Fire resistance - EI30, EI60
Total weight of the construction/glass - 10700kg
Area: 235M2 (2530 FT2)

PROJECT ANALYSIS

At the beginning of 2019, in the center of the Polish city Łodz, opposite to one of the city's biggest buildings – the neo-baroque Izrael Poznański's palace, a new four-star hotel was inaugurated under the Puro brand. The hotel has 136 rooms, a restaurant, a bar on the roof-garden with a view to the city, conference rooms and even a cinema called "Cinema Paradiso". The interior was designed by the London based firm Superfutures. The impressive interior design follows the artistic and cinematic tradition of the city and the strategy and tradition of Puro's parent company Genfer.
As a project that strategically wanted to focus on design, aesthetics and functionality, Alufire products were a perfect fit.

THE SOLUTION

The frameless fire-resistant system, Alufire Vision Line (AVL) was chosen to complete the sophisticated and modern interior of Puro hotel in Łodz. The AVL system was used among others to complete the obstacle-free views from the corridors, staircase and some rooms to the internal atrium. Mounted on the edge of the ceiling without handrails due to the incredible 1000N/m of force sustained, AVL gives the possibility of creating wide, undisturbed view lines optically enlarging the space and allowing natural and artificial light to reach more spaces. This solution's primary function though is restricting and resisting fire, up to 60 minutes. And AVL ensures in this project too, the safety of people in a fire emergency.

If this sounds like something you need, get in touch with our UK partner, Checkmate Fire, on info@checkmatefire.com.

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Advanced's High Rise Reputation sees it Protect European Landmark

Set to stand at 62-storeys high, 22 Bishopsgate in the City of London will, on completion, become the second-tallest building in Western Europe.

The 278m office building will offer 1.275 million sq. ft of high specification office space, as well as eight community spaces, covering over 100,000 sq ft, including an innovation hub, curated gallery space, fresh food market, gym and wellbeing retreat. Once completed, Advanced will protect both of Western Europe's tallest buildings, with 22 Bishopsgate being the latest in a long line of London's most prestigious and iconic skyscrapers specifying Advanced, including the Shard, the Leadenhall Building, the Heron Tower and the HSBC Tower.

At the centre of the active fire protection for 22 Bishopsgate are over 80 networked MxPro 5 panels with graphic display and BMS integration, alongside three special build panels for the building's Fire Command Centre, that will form part of the intelligent



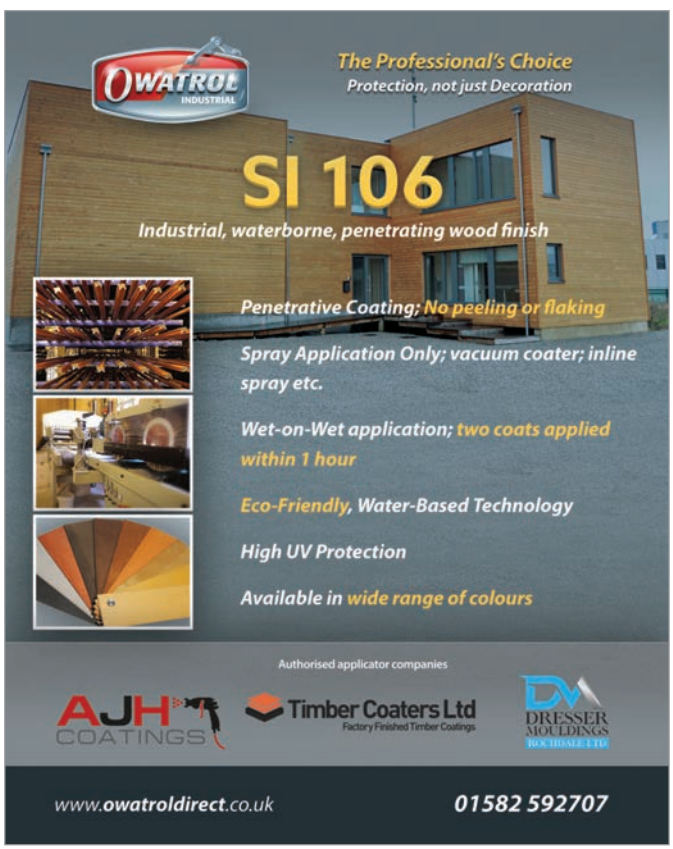
fire detection network. Advanced's panels are used alongside Apollo's Soteria detectors and its networking is widely regarded as the most resilient and scalable solution on the market. It can be expanded up to 200 node networks covering huge areas with complicated cause-and-effect.

In order to meet building requirements, the MxPro 5 panels also run Advanced's AlarmCalm false alarm management software with investigation delays and detailed options for alarm verification. AlarmCalm uses Advanced's fast hardware, updated config software and optional loop verification devices to deliver a system that allows the false alarm strategy for 22 Bishopsgate to be quickly and easily programmed and managed, increasing safety and reducing false alarms.

The three custom-made panels; a wet riser panel, sprinkler panel and fire and voice alarm panel, were all designed and manufactured by Advanced's AdSpecials department who worked closely with the client to fulfil a brief for a bespoke solution, both to budget and to deadline.

As a UK-first, 22 Bishopsgate will utilise a specially developed lift-evacuation strategy in case of fire. Responsible for every aspect of installation of the fire system from design to completion, PHF Fire, a division of PHF Electrical, used Advanced for its market-leading networking capabilities, best suited to managing a network of this size and complexity.

0345 894 7000 www.advancedco.com



Sealing protection achieves MOD standard



Resiblock has seen not one, but two of its Commercial Sealers specified for use at the new £300 million Defence College of Logistics, Policing and Administration in Worthy Downs, Hampshire. Resiblock '22' has been installed to seal over 2,300m² on Connaught Road (the road leading up to Worthy Downs Barracks), ensuring that the block paving will remain stabilised under the weight of all footfall and vehicular traffic. Additionally, Resiblock Resiecco was utilised to seal around 1,200m² of pathways, small roads and presentation areas around the College Building.

mail@resiblock.com

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Permitted Paving



Although a requirement for most new developments, other – often forgotten – planning measures encouraging sustainable drainage (or SuDS) also apply to new or replacement paving around existing properties. They are explained in brand new editions of Interpave's *'Permitted Paving'* and other guidelines, which are now available to download via www.paving.org.uk

Originating from the government-backed Pitt Review, various requirements for SuDS affecting retrofitted new and replacement paving were put in place through changes to planning rules in England, Scotland and Wales some time ago. But the growing awareness of the importance of SuDS and permeable paving in the fight against flooding means increasingly robust enforcement by local authorities today.

Before these changes, paving anywhere in a garden related to a 'dwellinghouse' or within various non-residential properties, using any materials, was considered to be 'permitted development' – effectively, an automatic planning permission without needing a planning application. But these rights no longer apply to new or replacement drives or other paving between a house and the street, or within industrial, warehouse, office and shop premises – unless it is permeable paving or drains water onto a permeable area within the property.

Otherwise planning permission will be needed but – with the latest national and local planning policies encouraging or requiring SuDS – unlikely to be granted. For example, the Greater London Authority includes a strong presumption against impermeable paving in its proposed planning policies.

For more information, download the brand-new edition of Interpave's *'Permitted Paving'* and other guidelines from the Permeable Paving & SuDS section of www.paving.org.uk

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Sustainable surfaces

Permeable external surfaces provide the starting point for sustainable surface water drainage (also known as SuDS), but concrete block permeable paving offers far more than flood prevention, explains Chris Hodson of Interpave

It's over three years since the Government chose to abandon dedicated requirements for SuDS on new developments in England using the Flood and Water Management Act. Instead, the latest National Planning Policy Framework calls for SuDS on developments of 10 or more dwellings or similar scale non-housing schemes, and for it to provide multifunctional benefits where possible.

These measures are now being applied and enforced with increasing effectiveness by local planning authorities, through local policies and guidelines. Even the 2019 National Design Guide for developments considers that: "Well-designed places have sustainable drainage systems to manage surface water, flood risk and significant changes in rainfall."

Dedicated SuDS requirements

However, last year the Welsh Government did implement Schedule 3 of the Act. New measures include the establishment of a SuDS Approving Body (SAB) within each local/unitary authority. SAB approval is required for drainage systems on new and redeveloped sites, and the SAB will be required to adopt and maintain approved SuDS that serve more than one property. In Scotland, 2011 regulations simply require surface water drainage systems from new developments to discharge water to the environment through SuDS.

In addition, other – often forgotten – changes to 'permitted development' rights for new or replacement paving around existing properties are now being more effectively enforced. They apply to homes and also industrial, warehouse, office and shop premises, unless permeable paving or a permeable area within the property is used. Otherwise planning permission will be needed, and this should be refused – with local policies requiring SuDS now appearing. For example, the Draft London Plan states "Development proposals for impermeable paving should be refused where appropriate, including on small surfaces such as front gardens and driveways."



Natural drainage

As the new Welsh National Standards explain: "The SuDS approach mimics natural drainage, managing surface runoff at or close to the surface and as close to its source as practicable." By its very nature, concrete block permeable paving is uniquely placed as an essential, attractive, surface-based, multifunctional SuDS technique.

By its very nature, concrete block permeable paving (CBPP) is uniquely placed as an essential, attractive, surface-based, multifunctional SuDS technique



BRIDGET JOYCE SQUARE
'Winner of Winners' at the 2017 Landscape Institute Awards, this community-driven SuDS landscape in White City, west London was designed by Robert Bray Associates. It makes use of concrete block paving, removing rainwater straight from the surface without gulleys, providing attenuation and treatment, then discharging into planted basins.
(Image courtesy Robert Bray Associates)

Of course, all developments need paving, whether for pedestrians, vehicles or other uses. CBPP simply combines well-drained, safe and attractive surfaces for a wide range of applications with attenuation, storage, treatment and conveyance of rainwater – by its very nature requiring no additional land-take. Fundamentally, CBPP captures the rainwater that falls upon it (which is immediately removed from the surface) and can also handle runoff from roofs and other impermeable surfaces.

CBPP attenuates and treats this water before infiltrating gradually into the ground or, where ground conditions preclude complete infiltration, discharges a delayed, gradual flow of clean water, either at the head of a SuDS management train or to a conventional drain system or watercourse, so improving water quality and reducing downstream flooding. CBPP is therefore an essential part of any development, irrespective of the drainage regime.

Defining urban character

Of course, paved surfaces help to define the character of any development. The growing choice of CBPP products available from Interpave manufacturers – with numerous shapes, styles, finishes and colours – allows real design freedom. At the same time, CBPP can provide a completely level, well-drained, firm and slip-resistance surface accessible to all, without the need for cross-falls, channels, gulleys or other interruptions. Rainwater 'ponding' is eliminated, reducing the risk of ice forming on the surface and preventing splashing from standing water.

As a result of its unique capabilities, CBPP offers designers the exciting potential of a gradual supply of treated water for safe, open SuDS features downstream. This can be integrated with landscape design and promotes biodiversity. The challenge for architects is to fully integrate SuDS and CBPP into their schemes from the very start. As the RIBA's 2014 report 'Building a Better Britain' pointed out: "For too long, we have been designing water out of our towns and cities when we should have been designing it in," and stresses the need to: "start putting water at the heart of discussions about what makes places great to live in."

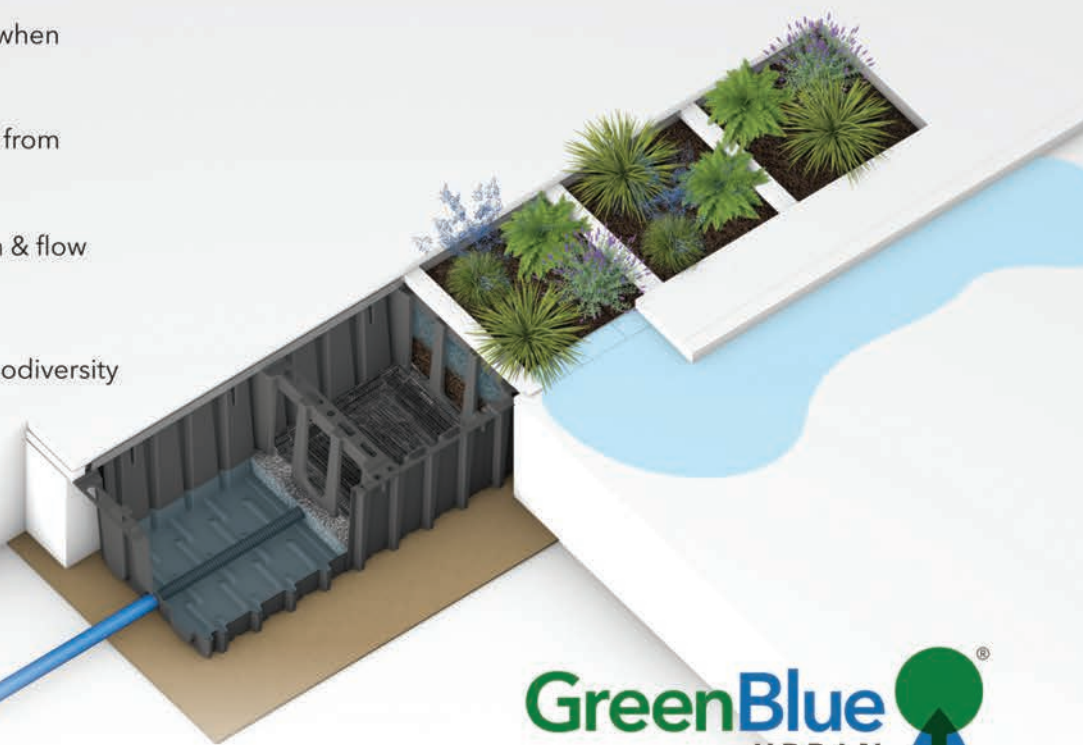
Chris Hodson is architect and consultant at Interpave

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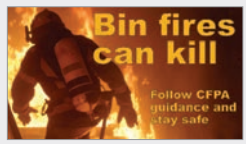
Specifying commercial cladding



James Burton, Sales Manager at specialist coating manufacturer **Bradite**, advises what to consider when refurbishing commercial and industrial cladding. Cladding is mostly coated in the production process which gives it a life of approximately 20 years before it starts to discolour. Both flexible and adaptable, it can be over-painted at any point during its lifetime, the process normally being relatively quick with minimal disruption. Up until the corrosion and failure of the steel substrate itself, Bradite's Cladit can be successfully used to upgrade the cladding and extend its life by up to 10 years.

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Bin blazes are hot topic



Architects designing in waste and recycling facilities for social housing schemes must ensure wheeled bin stations are 6m or more from property to comply with CFPA guidance. Whether the brief is a redevelopment or new build, Fire Risk Assessors working for social landlords will expect a minimum distance between bins and residential property. The regularity of fires caused by wheeled bin fires spreading to domestic property makes this a hot topic. **metroSTOR's** range of fire-resistant bin stores and expert advice can help specifiers.

01227 200 404 www.metrostor.net

There when you need them



Covent Garden as we all know is a busy and successful shopping and entertainment area. The technical services team required an outdoor power supply that would not impact on the Grade 1 listed site and its important aesthetics. **Pop Up Power Supplies** delivered 6 retractable units for this particular site. The 450kg units are successfully buried beneath the beautifully cobbled piazza. When required they are raised by a simple removable turning handle. They do not have a negative impact on the historical surroundings as each unit has a lid created from the same cobbled stone as the rest of the piazza.

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GreenBlue Urban launch HydroPlanter™

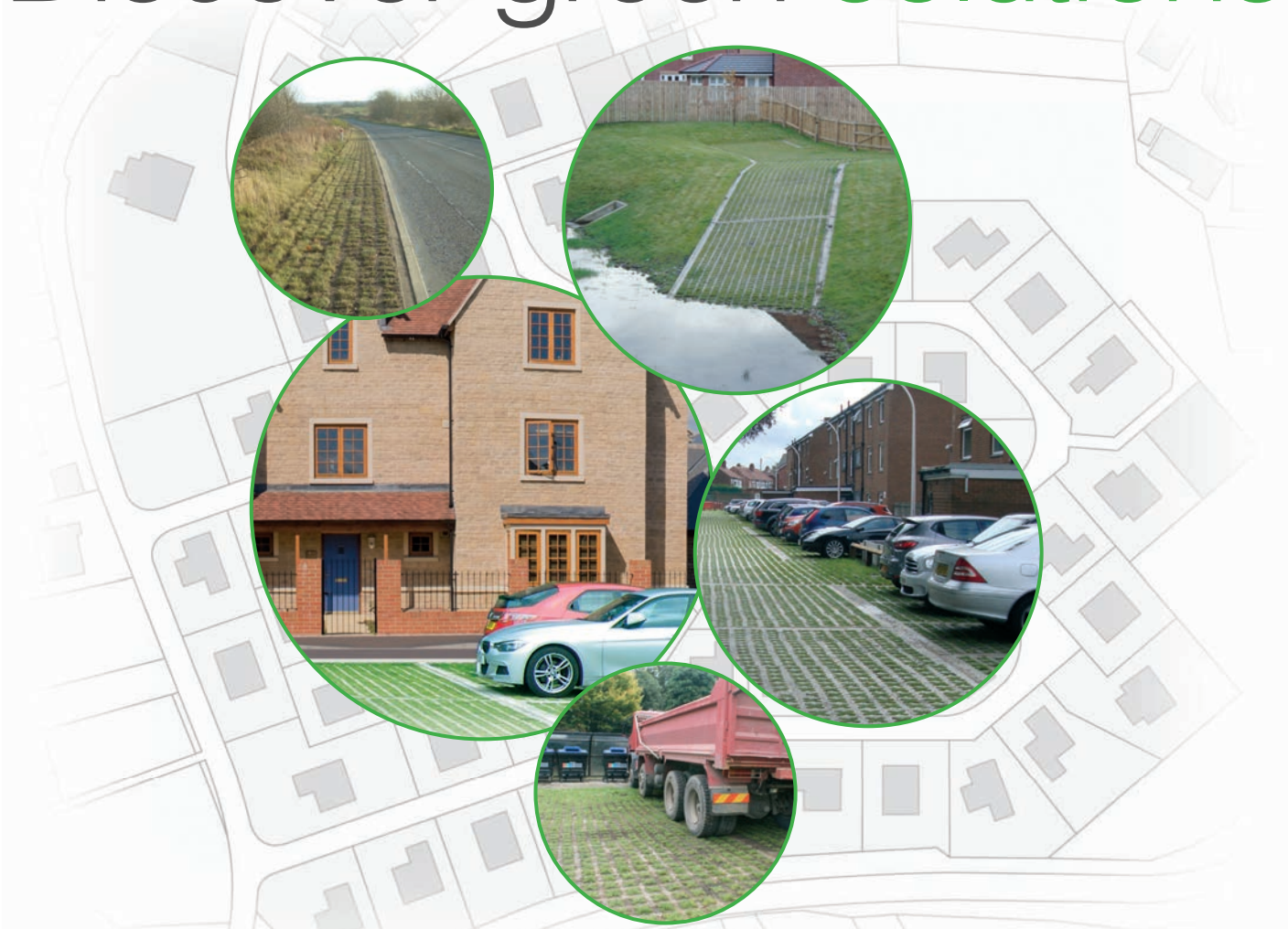


GreenBlue Urban are excited to announce the launch of a new modular bioretention raingarden system, the HydroPlanter™. The latest product can be retrofitted into highways schemes and on new developments of any size. The "Plug and Play" sustainable urban drainage solution can attenuate and cleanse stormwater and provide amenity and biodiversity to new and existing spaces particularly suitable for highway build outs, central reservations and verges. A single modular unit would also be suitable for new housing developments tackling SuDS solutions when space is at a premium.

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Hauraton surface drainage and service channel systems installed at Central Park

At 600 acres, Central Park, Avonmouth, Bristol is a warehouse and distribution development, strategically located between the M49 motorway on its Eastern boundary and the A403 to the West. A 40 acre site has been built by Berberry, a privately owned property development and investment company. They demanded the contractors achieve the highest environmental standards for the surface water drainage systems installed.

With areas designated for HGV access and hard standing, car parks and areas accessed by smaller commercial vehicles, the road and yard surfaces employed included concrete, asphalt and block paving. This meant various types of surface channelling were required by the contractor, Churngold Construction, to ensure the drainage needs of the site as a whole. Hauraton systems; RECYFIX® HICAP®, FASERFIX® SUPER, RECYFIX® MONOTEC and ENVIROKERB were chosen to meet the drainage requirements. FASERFIX® SERVICE channel was also specified to house cables and coolant pipe-work.

Three sizes of RECYFIX® HICAP® F–1000, 2000 and 3000, were selected, all with a loading category of Class F900 (900kN). This system was used to drain the HGV access and hard standing concreted areas. All the channels supplied are made of RECYCLED polypropylene (PP) with fixed ductile iron, 14mm open slot inlets finished with KTL, a rust resistant coating.

The asphalted areas accessed by HGVs and smaller commercial vehicles were drained by 22 metres of FASERFIX® SUPER 100 Fibre Reinforced Concrete (FRC) channels fitted with Class F900 ductile iron gratings. These channels feature metal protection along their top edges, not only does this detail provide exceptional wear resistance and increased load bearing capability, the components are so strong, even prior to installation they are able to endure the rigours of building sites.



Hauraton FASERFIX® SUPER channels with E600 ductile iron gratings

In total 82 metres of RECYFIX® MONOTEC 100x230mm (Loading category Class D400) were used to drain the car park block/asphalt surfaces. As well as the surface drainage products supplied, 13 metres of FASERFIX® SERVICE 300 channels with Class E600 ductile iron covers were installed providing protection for cables and coolant pipe-work to two condenser units.

01582 501380 www.drainage-projects.co.uk



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