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FROM THE EDITOR



ow that spring is finally rearing its head, the events season is upon us. If you are attending ecobuild which is fast-approaching at the start of March, you may well be hoping for a newly-invigorated set of debates and exhibitors to learn from and meet, with the event now being in new hands.

The owners Futurebuild Events have secured some lively architectural speakers such as Rowan Moore (architect and writer at *The Guardian*), Jane Duncan (former RIBA President), and Michael Jones (Foster + Partners), and the conference agenda is looking pretty good. However the question remains of what the event stands for in 2018 – you'll have to visit the ExCel in March to find out.

A series of 'Showcases' will put sustainability back at the heart of the event, say the organisers, following industry feedback. Its good that it is reasserting its identity, as critics in the past have said that ecobuild moved further than was healthy away from its roots, towards being an all-things-to-all people, mainstream building event. So if you're keen to hear about a demountable Passivhaus, waste innovation, or BREEAM Awards contenders, or you would like to experience small green spaces that can fit tight urban sites at 'the Hive', investigate the Sustainability Showcases.

There does also however seem to be an awful lot of focus on things like district heating and infrastructure, which while undoubtedly important, are not necessarily in many architects' remit. You'll need to pick and choose carefully when you arrive at the vast east London venue to find what you're looking for.

Also coming up is an event tightly focused on the application and development of innovative materials in buildings, simply titled Materials for Architecture. Staged by the publishers of this magazine, the event (25-26 April, ILEC Conference Centre, London) has a solid conference lineup including several top 100 architectural practices, plus leading academics and consultants in the field, and product manufacturers innovating in cutting edge materials.

You can find more information, together with details on the keynote speaker (a high profile architect whose name will be revealed imminently), at www.materialsforarchitecture.com

James Parker Editor



ON THE COVER...

Image detail of Pioneer Village, Toronto. One of two subway stations designed by Will Alsop.

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For the full report on this project, go to page 38

CARILLION

Architects' position unclear in wake of Carillion collapse

Following Carillion's announcement of its insolvency in January, the fate of payments to architects and the rest of its supply chain remains in doubt.

On 15 January, winding up orders were made against Carillion and its associated companies, forcing them into liquidation.

PwC (Price Waterhouse Coopers), the acting liquidator and special manager to the Government's Official Receiver, has issued information for suppliers on the next course of action. Architects working on Carillion projects have been asked to "continue as normal," however PwC said that those who are owed money for services provided before the liquidation are "very unlikely to be paid in full."

Offering some security to architects involved however, PwC said: "Until advised otherwise, [suppliers] will be paid for goods and services supplied during and for the benefit of the liquidation in the normal course of trading."

At this point it is unclear how many architects will be affected by the company's collapse, owing £1.5bn. Recent projects undertaken by the construction firm, such as the redevelopment of Battersea Power Station (Rafael Viñoly Architects) and the Anfield Stadium expansion (KSS Group), have been carried through to completion.

On the other hand, there have been reports that workers were dismissed from ongoing projects such as the £350m Midland Metropolitan Hospital in Smethwick, and that the Royal Liverpool

Hospital scheme's 2018 planned completion was under threat.

Noble Francis, economics director at the Construction Products Association (CPA), following a meeting with the Secretary of State and the Minister for Small Business, commented that the full impacts of Carillion's liquidation were unknown.

"The key impact will be on around 20,000 sub-contractor firms. The last significant bankruptcy in construction was ROK in 2010, which has a revenue of £715m compared with Carillion's £5.2bn, so this is very much a different scale."

He continued: "Government will be covering Carillion's costs on public sector service contracts from here on to ensure that public services on schools, hospitals and defence continue."

However, that still leaves public construction work and private sector construction uncovered. Work on joint ventures will be assigned to the other firms on the joint venture and other contracts will need to be reassigned by PwC.

In response to the collapse, RIBA executive director Adrian Dobson called for a rethink of "how we procure and manage public sector contracts."

In a statement released by the RIBA, Dobson remarked: "The RIBA has voiced concerns about current procurement processes, including pre-qualification questionnaires (PQQs) and framework agreements; for although these are intended to support fair bidding, they actually



At this point it is unclear how many architects will be affected by the estimated multi-billionpound collapse

restrict competition and create barriers for small businesses entering the market.

"Standard PQQs tend to bias selection in favour of larger multi-disciplinary suppliers. In architecture this might be requirements to have three built projects of a similar type, high turnover or PI requirements and multiple accreditations."

Dobson noted that this dynamic "leads to a reliance on a small pool of large companies such as Carillion, narrowing the talent pool and concentrating risk in too few hands.

"Smaller business, including architects, are often restricted to being tier 2 and 3 sub-contractors who are then particularly vulnerable to overhead financial collapses of this kind, where the cashflow crisis gets passed down the supply chain."

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APPOINTMENT

Page\Park Architects to extend Birmingham Symphony Hall

Birmingham's Town Hall Symphony Hall has announced the appointment of Page\Park Architects as multidisciplinary design team lead for a proposed £12m foyer extension.

The project is intended to open the building onto a regenerated centenary square and reinforce Symphony Hall's place in Birmingham city life.

Widely considered one of the finest concert halls in the world, Symphony Hall is located at the heart of Birmingham's city centre and as well as being home to the City of Birmingham Symphony Orchestra also hosts jazz, world music, folk, rock, pop and stand-up comedy.

Along with the town hall, Symphony Hall plays an important role in the life of the region – connecting over 15,000 young people and adults to a world of music and performance through education, community and talent development projects – and is regularly used for community events, graduation ceremonies and conferences.

Expressing his enthusiasm for the project, David Page, head of architecture at Page\Park Architects, said: "Birmingham's Centenary Square is being transformed into



a remarkable heart of the city with its assembly of important civic cultural buildings. The new Symphony Hall frontage will provide a multi levelled balcony to that new setting and Page\Park are delighted to be able to shape that contribution."

Nick Reed, chief executive officer for Town Hall Symphony Hall, said: "This project will finally give Symphony Hall the foyers and public spaces to match its world class auditorium. Boasting a much improved audience experience and a dedicated entrance, this permeable space will be energised with new artistic adventures, creating a sustainable future for Symphony Hall, and developing an audience that looks like the city it serves: young, diverse and creative."

The project is conditionally supported through the Local Growth Fund by the Greater Birmingham & Solihull Local Enterprise Partnership.

NEW STUDIO

Benoy opens first US office in LA

Benoy has announced the opening of its Los Angeles studio this week. Headed up by Directors Barry Hughes and Jacqueline Beckingham, the new studio marks the firm's expansion into North America.

Tom Carteledge, CEO of Benoy, noted his excitement for the new office, saying that "a long-awaited ambition for Benoy and its addition to our portfolio being an integral part of our global network.

This development follows a busy year for Benoy, who has reported projects active on every continent and across all



sectors – particularly in the aviation field. Additionally, the firm's global team has grown, along with 50 promotions worldwide, "reinforcing the brand's culture of collaboration between colleagues and studios to ensure design excellence."

EVENTS

SEMINARS

Ethics in architecture 28 February, London www.architecture.com/whats-on

Developing research in architectural practice 5 March, Newcastle www.architecture.com/whats-on

WALKS/TOURS

Pathways to 66, Bloomsbury and Fitzrovia 25 February, London www.architecture.com/whats-on

RIBA Succession planning 14 March, Cambridge www.architecture.com/whats-on

EXHIBITION

Ceramica 28 October - 10 February www.architecture.com/whats-on/ceramica

The Architecture of Drawing Prize 21 February - 14 April, London www.soane.org/whats-on/exhibitions

RIBA Presidents Medals

10 November - 24 February www.architecture.com/whats-on/presidentsmedals-exhibition-2017-at-riba-north

TRADE SHOWS

Surface Design Show 06-08 February, London www.surfacedesignshow.com

KBB

04-07 March, London www.kbb.co.uk

Ecobuild

06-08, London www.ecobuild.co.uk

UK Concrete Show 21-22 March, Birmingham www.concreteshow.co.uk

Materials for Architecture 25-26 April, London www.materialsforarchitecture.com

REDESIGN

KLH Architects rejuvenate 1930s lido

A Grade II-listed 1930s lido is set to reopen in Ipswich after a redesign and refurbishment led by KLH Architects.

The redesign of Broomhill Pool, which was awarded lottery funding, included vital repairs and conservation work needed to convert the buildings into usable commercial spaces that can have a positive impact on local economies.

Constructed in 1938, the building has been closed for 15 years and has fallen into a state of disrepair. The £3.4m Heritage Lottery Fund grant will be used towards the £6.5m restoration of the art deco building.

The entrance kiosk will be restored as close as practicable to its 1938 original form, including the erection of a replica art deco clock tower to match the original.

Lead architect Alan Wilkinson said that the project proposals were developed to create a "viable solution for the future of the lido."

"The main elements of the project," Wilkinson continues, "comprise renovation of the Grade II listed building and construction of a new build health and wellbeing





centre which is vital for the economic survival of the lido."

Ipswich Borough Council have committed £1m towards the project costs with the remaining £2m being funded directly by Fusion Lifestyle.

OBITUARY

Neave Brown 1929-2018

Architects have praised the work of Neave Brown, the celebrated Modernist architect, following his death aged 89.

The RIBA said in a statement: "Brown was perhaps best known for his visionary Alexandra Road estate built by London's Camden Council in the 1970s. He believed every home should have its own front door opening directly on to the routes, and streets that make up a city, as well as its own private external space, open to the sky in the form of a roof garden or terrace; each of these qualities was incorporated at Alexandra Road."

RIBA president Ben Derbyshire presented Brown with the 2018 Royal Gold Medal for Architecture, on behalf of HRH The Queen, in October 2017. Derbyshire commented on Brown's passing, saying that the architecture community had "lost a giant."

He continued: "Neave was a pioneer: he showed us how intellectual rigour, sensitive urbanism, his supreme design skill and determination could deliver well-being to the local community he served so well in Camden. His ideas, for low-rise high-density housing with private outside space for all residents, still stand as a radical antidote to much of the unthinking, not to say degrading, housing product of the era.

Derbyshire concluded: "Neave's contribution to architecture will not be forgotten. His vision and ideals live on in the generations of architects, whom he has inspired. All his UK projects are listed. That they are loved by their communities is clear – the residents of Alexandra Road in Camden nominated him for the 2018 Royal Gold Medal for Architecture."



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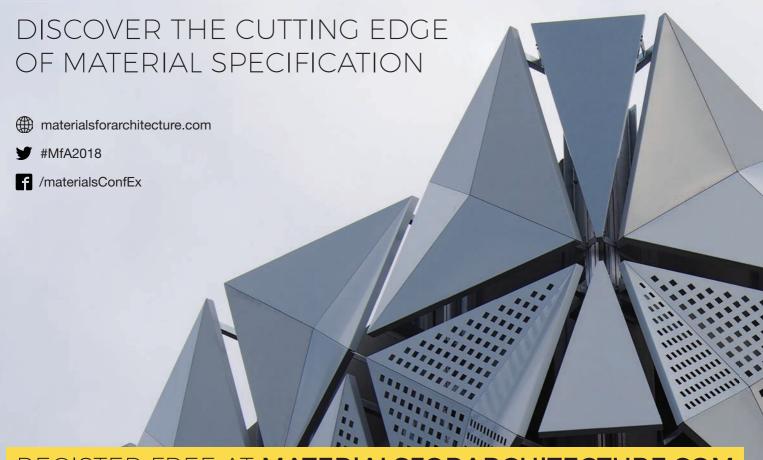
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APPROVED

PRP designs loft style living for Reading



PRP and housing association L&Q have been granted planning consent by Reading Borough Council for Kenavon Drive, a new residential quarter on the banks of the River Kennet.

Occupying the site of the former Huntley & Palmers Biscuit factory – a grand Victorian complex almost wholly demolished in 1978 – the scheme will employ a variety of traditional brick techniques and feature saw-tooth roofs as a contemporary reference to the industrial buildings that once stood on the site.

The use of historically inspired abstracted forms and techniques will, according to the architects, "create a contemporary architectural language that reflects the site's manufacturing past as well as the character of neighbouring listed buildings in the area."

Kenavon Drive provides 765 homes for residents. The homes, of which 157 are affordable for local people, will contribute to L&Q's plan to enable the delivery of 100,000 homes nationally over the next 10 years. The development will feature two new public squares and a new 'linear park', as well as a cafe, a restaurant, retail and flexible employment space for local workers.

PRP's landscape team has proposed a series of integrated streets and spaces for the scheme, that include a riverside promenade leading to a new square overlooking the river.

The square features terraced seating, with new trees, lawns and fountains. Cafes and a restaurant will line the square, offering alfresco dining in a riverfront setting.

Craig Sheach, director, PRP said: "We were inspired by Reading's history, the site and L&Q's aspirations for the project and have developed a design which we believe is deeply rooted in its place, drawing inspiration from the former site's industrial character. When delivered, the scheme will enhance the eastern quarter of Reading and provide residents and locals with a well-connected, walkable neighbourhood and place to enjoy a leisurely moment by the water – something that doesn't happen currently at this part of the river.



3D PRINTING

WATG develops 3D printed house design

Over the last year, WATG's Chicago office has been developing a 3D printed house design which it wants to see built in 2018.

Working with architectural fabricator Branch Technology, the firm has confirmed that the wall section testing, research, and development phase of the project is currently underway, and that it is "working towards breaking ground later this year".

In 2016, the WATG Urban design team were awarded first prize in The Freeform Home Design Challenge; a competition commissioned by Branch Technology to design the world's first "freeform" 3D printed house, which explores how 3D printing technology can improve our built environment and lives today.

Enlisting the services of Thornton Tomasetti, the team has been printing test beams and partial wall sections to examine their load bearing capabilities. In generic printed beam tests, a three-foot long beam carried a load of approximately 3,600



pounds, while only weighing five pounds. WATG commented: "The freeform printed matrix is essentially a small space frame, making it highly efficient. The next stage will be to test the maximum load bearing qualities of each individual printed element of the structure."

Working alongside United States Gypsum, WATG and Branch Technology have been researching gypsum components that could be applied on the printed structure for fire protection, structural reinforcement and to create a substrate for the application of finished wall materials.

Commenting on the project, a team spokesperson said: "It's important the architecture and the environment work together harmoniously. The chosen site is steps away from the Tennessee River in a beautiful wooded, sunlit area. The house will blend seamlessly into the environment, while also being naturally shaded and protected from solar radiation. WATG is currently producing detailed design drawings and working in collaboration with the City of Chattanooga."





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VIEW POINT



Architect Rory Bergin of HTA Design gives his views on the impact of leaving the EU on architectural practices, as well as the wider housing sector

Brexit is, in my opinion, the worst idea in international relations since Russia decided to annex the Crimea. But, politics aside, what impact is it going to have on the architectural profession, and beyond that, those of us who are working in the housing sector?

It would have been nice if the Government had done some impact studies to use as background, but sadly our inept politicians don't seem to think that the biggest economic upheaval in five decades is important enough to merit an impact assessment.

Given that every large masterplan our profession designs, or every road widening scheme is subject to an impact assessment, one has to wonder why.

I see the impact being three-fold. We will lose skills, access to markets, and change our cultural identity.

There are already some anecdotal impacts of the 'vote'; lower numbers of Europeans applying for nursing jobs and a drop in European students applying to come to the UK to study, for example.

The Brexit impact assessment done by RIBA highlights the fact that architecture contributes £4.8bn annually to the UK economy, we sell a lot of services to overseas clients, earning £500m per year. A lessening of access to any of our markets will mean lost revenue. The RIBA report suggests that we could regain the revenue from countries like China, the US and UAE, but like everything to do with Brexit, this makes less sense to me than to just continuing to do business with our neighbours. Who wants to fly to China (with all its attendant difficulties of legals and finance) when you can take a train to Paris, Brussels or Amsterdam?

Currently, 23 per cent of the architects in the UK are from the EU. One in four of

our profession is from a country where we (some of us) have said we no longer want a trade, cultural or visa exchange. More accurately, our politicians are interpreting the 'vote' as saying this, even though most of those who voted yes didn't mean anything of the sort.

If we lose even a small proportion of the profession because of the vote, the impacts will be seismic. Why? Because those who come here to work as architects are the cream of the crop – the ones with the grit and determination to leave their home countries to better themselves, to work in a different language and culture, and to make the best of their talents. We have been fortunate to have them, it has raised the bar for talent here in the UK and losing them will have a big impact on those businesses that employ them.

Many of our client organisations employ EU staff as well, and all of them are busy dealing with the lack of new housing that we have allowed to accumu-

Those who come here [from the EU] to work as architects are the cream of the crop – the ones with the grit and determination to work in a different language and culture

late over the last decade. Again, if they are negatively affected, that will slow down the growth in the industry and leave us struggling to cope.

Finally, in terms of skills, the construction sector in the south east relies heavily on foreign labour, most of it from the EU.

Losses in this area will have a big impact, as construction is a huge part of the overall economy. We have been increasing the supply of homes for a number of years now, and house price growth is slowing.

We need to keep increasing that supply if we are to have any hope of reducing the cost of new homes. Ideally we would be able to meet that demand with the current workforce, but that workforce is ageing, and losing skills faster than it can train people.

In the long term I hope that industrialisation of housing will help us to cope with the demand with fewer resources, but that is some way off. We will continue to need a proportion of foreign labour for the foreseeable future.

As an Irish citizen, I was in the slightly odd position of being affected by this labour issue, but also able to vote on it. Naturally, I voted no, but the vast majority of the EU workers who live here, pay taxes here and are in relationships with families here, didn't have a vote on a decision that is going to have a dramatic impact on their lives.

This seems very unfair, and will have long term impact on the cultural relationship between us and the rest of Europe for a generation. We will gain a reputation for being uncaring and unfair that belies decades of tolerance, huge donations to charities for overseas aid, and providing welcome to refugees.

Our success as a country is based on that history of openness, tolerance and the integration of cultures, but a small group of extremists think that we have gone too far. Clearly we haven't gone far enough.

Rory Bergin is partner, Sustainable Futures at HTA Design

PRACTICE PROFILE

CoveBurgess

James Parker spoke to Tim Burgess, one of the founders of a young practice which has quickly evolved from a two-man set up to a firm making its name in London and beyond

oveBurgess Architects has been in existence for less than six years, but it has gained a strong reputation in the commercial and residential sector, particularly for its varied portfolio of refurbishments. The London Bridge-based firm puts the emphasis not on esoteric architectural indulgences, but on helping clients on finding ways to maximise asset value in a simple, clear way, and provide "more with less".

Tim Burgess hit it off with his future co-director Dan Cove on the train to Bath where they were both visiting architecture tutors at the University. Tim was at MacCormac Jamieson Pritchard but was looking to set up on his own in the residential sector, and engaged Dan, a director at EPR Architects, as a "sounding board." Dan put a few clients his way, and, says Tim, "it was a natural step for us to start a partnership."

Dan brought with him "a great black book of commercial clients, which is now the bread and butter of our work". Tim's background is "more complex buildings – heritage, residential, challenging refurbs and education projects, with difficult stakeholder work." He says by contrast, Dan is "an architect with a capital 'A', who does the sketches and has the vision, I'm more the people person who does the collaborative thing, trying to draw things out and get everyone to that comfortable place."

They founded the practice in September 2012, with Tim's architect assistant and a former colleague of Dan's manning the phones

while he sought new business. Tim tells ADF: "It was very ad hoc and low key, working all hours, and as soon as we started getting projects in we started employing people." The firm now has nine key staff including the two partners, including associate Katharina Breuer (who Dan had worked with for a decade at EPR).

A search for clarity

Tim and Dan's teaching careers have helped bolster the practice, with graduates from Bath now featuring among its ranks. Tom Radenz was taught by Tim eight years ago, and Oliver Bawden another qualified architect now running projects. Tim comments: "The link to teaching is fantastic because it forces you to clarify your thinking and speak in plain English. Often, you use shorthand and might say to a student 'we need to do that in a much more Miesian kind of way', and they say 'what are you talking about?'"

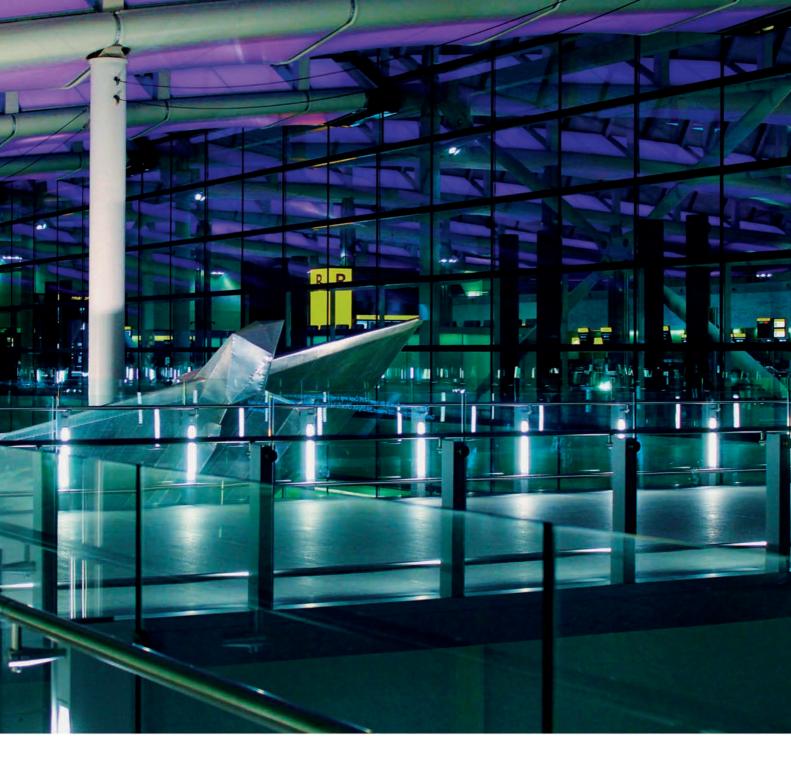
With the majority of the firm's clients investment/pension funds and charities, Tim says that this focus on clarity and simplicity has paid dividends when it comes to providing effective advice. "It has become a touchstone – how much can we make things simple, clear and direct." He adds: "You need to understand your clients' world and address them in the most explicit terms. This comes through in all of our work now, particularly when we write documents for planning – short sentences, no fluff, or adjectives, simply statements of fact."





ADDING VALUE

Left - new entrance at Harbour Exchange, London Docklands; right - adding a cafe at Kingsmead Business Park in High Wycombe gave a "sense of destination"



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You might say to a student, 'you need to do that in a much more Miesian kind of way', and they say 'what are you talking about??'

Tim Burgess, CoveBurgess

Tim is acutely focused on the importance of giving the right advice to clients, and this has stood the practice in good stead by gaining trust from risk-averse firms. He paraphrases the famous sceptical quote of architect Cedric Price – "ask an architect what the problem is, and he'll tell you the answer is a building". However, says Burgess, "In a way the higher state of being from a client's point of view is to become a trusted advisor, where you understand what their actual problem is, and try and help them solve it – which may or may not be a piece of architecture."

Burgess says that the firm benefits from clients' long-term approach to projects: "For investors, value has a different meaning, it's not about cost cutting, it's trying to make sure they have the right product for the right market." He adds that the firm also "prides itself on how it works hand in hand with contractors," for example on getting interfaces between packages right, but does counsel that "you can get too caught up in the detail."

Case studies

Tim Burgess says that the big design driver for the firm is "to make things elegant, simple and apparently effortless". He uses the analogy of "arriving with your granny, does the building announce itself and make itself readable so she can find her way without someone explaining its architectural meaning?"

One example is a refurbishment of the entrance to a substantial office building in South Quay in Docklands (Harbour Exchange), where CoveBurgess moved the entrance, added a large canopy, and "made the reception visible from the street so you could see where you were going." He continues: "It took a bit to get the client's head around the idea that when the building is of a certain scale, the entrance needs to be of a commensurate scale to even register on your perception." Burgess adds that in terms of central London, "A building's address is one of the most fundamentally underrated aspects of commercial building. By simply moving the front door, you can increase your rental value."

An office fit out in the upper floors of the 1930s Heal's Building on Tottenham Court Road in central London faced the challenge of a workforce expanding from 35 to 80 people. The client, the government agency rolling out smart energy meters Smart Energy GB, were "writing a brief for an imagined future," so there was an element of crystal-ball gazing for this "characterful" building.

In addition to "using the funny layout to naturally subdivide spaces," the architects designed a bespoke desk with a kink in it that could tessellate in various ways, so could be clustered to suit the client's needs, and would "always provide a space where



URBAN LIVING BY THE SEA

The new 70-unit Rox residential scheme will be built in the heart of Brighton

someone could stop and talk to you," assisting collaboration. Bolstered by the trust placed in them by the client, CoveBurgess "completely recalibrated the cost plan" to around a third allocated to furniture. Burgess says: "we cut to the chase of what was the actual problem, and the simplest solution."

The firm has been busy upgrading underperforming out of town business parks too, notably refurbishment schemes at Voyager Place in Maidenhead and Valiant House in Crawley. He says the brief is often tightly focused around the expected rental income, "it means you don't waste time doing things." He says it's a case of "putting the ego away for a moment away and asking 'what's the client's driver here."

He says that in such commercial schemes, the firm focuses on "addressing perceived value – areas that need to look and feel a certain way. We apply a centre-of-town benchmark then find a way of doing it without spending a great deal of money". In the case of Kingsmead Business Park in High Wycombe, adding a small cafe was all that was needed to give a sorely-needed "sense of presence or destination". The site went from 50 per cent let to 95 per cent let over the next 18 months.

Voyager Place was a good example of how the firm created value and added an individual look for a client using lighting design including careful product specification. Says Tim Burgess: "We tend to use Belgian manufacturer Delta Light – they're not the most expensive, and they've nailed making it as simple as they can be. Our architect Tom Radenz spent a great deal of time organising LED strips in patterns, which became a sort of branding."

One of the firm's most recent projects outside London to get underway, and which is sucking in a large portion of its staff, is a 70-unit residential scheme on the main Gloucester Place thoroughfare in Brighton. Replacing the derelict Astoria theatre, Brighton Rox is "a reference back to the 1930s idea of urban living, where everything is on your doorstep," says Tim, adding, "that only comes with density."

Tim puts a recent slowdown in commercial work to the effect of Brexit uncertainty, which extends to international investor clients holding back on that investment. However the residential sector is continuing to motor in London, and Tim is ambitious to grow the practice and work on "more urban, and complicated" jobs involving "real architectural expertise."

However one of the firm's key strengths is its agility, as a small, but growing practice full of talent. "We have a really great, flexible unit at the moment, we all sit down every Monday morning and regroup, we can absorb a lot of stuff."

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FUTURE WATCH

Care pathways

With the NHS showing increasing recognition of how the built environment contributes to the health of urban populations, Sébastien Reed reports on how it is promoting a holistic approach to planning 'healthy new towns'

t a time when affordable housing is in such high demand, there is a danger that other priorities for urban planning fall by the wayside in the race to build in the necessary volumes. However there are loud voices reminding the UK that its housing crisis is being shadowed by a crisis in health – with a fast-ageing population the current age 'pyramid' ever increasingly resembles a mushroom, and the number of overweight and obese citizens has swiftly increased over the last 10 years to 63.8 per cent.

This is echoing similar patterns across the world, leading the World Health Organisation to state: "Modern societies actively market unhealthy lifestyles." Now, growing awareness of this health timebomb, against the backdrop of an NHS creaking under the pressure, is leading the Government to make more tangible interventions to try and address the problem. One way it is doing this is leveraging masterplanning of new towns to remedy some of the planning ills that may have contributed to unhealthy lifestyles.

Traditionally the NHS has occupied a reactive, problem-solving stance based around primary care (GPs) and secondary care (district general hospitals), the latter fine-tuned to providing specialist care once a patient arrives at each individual department.

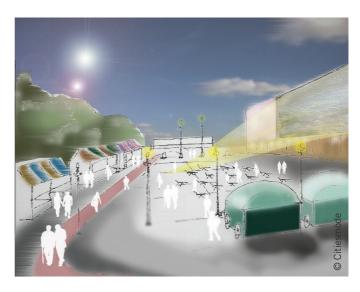
The scheme's stated aim is to shape new towns, neighbourhoods and communities to promote health and wellbeing

By contrast, Healthy New Towns (HNT), a fast-developing scheme instigated by the NHS, is set to transcend former care frameworks of direct containment and treatment of disease, instead focusing on the development and maintenance of health via better-designed communities. This more subliminal – some might even say social engineering oriented – approach has been labelled as 'the third era of health', helping people to stay well, rather than stay alive.

The scheme presents a new challenge as well as opportunity of 'designing in' healthcare benefits to our towns, offering the opportunity to creatively address the causes and incidence of key factors such as obesity, mental health, dementia, and ageing-associated diseases.

Inception

The idea for HNT was born out of the NHS' Five Year Forward View 2014 strategy document. Focused around the impact of place



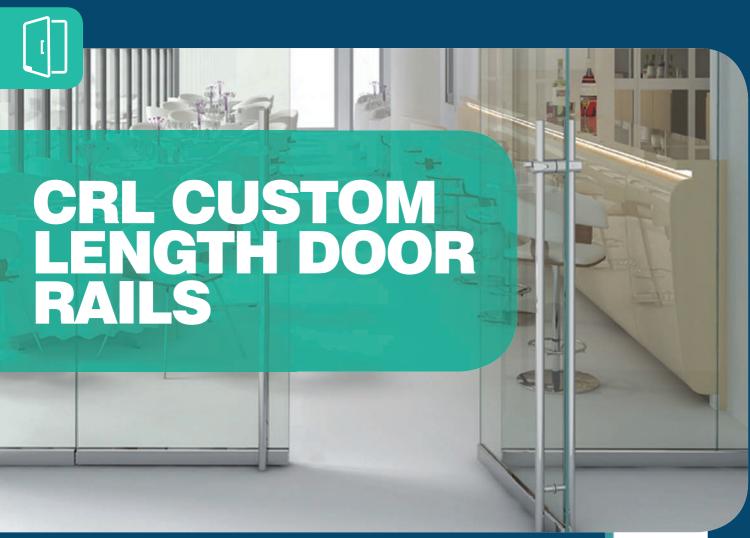
A concept drawing for Halton Lea at Runcorn, one of the more modest Healthy New Towns pilot projects

on health, the plan calls for a policy commitment to "getting serious about prevention" and asks how urban planning can be used as a strategic means to the goal of better health outcomes among the UK population, and a decreased reliance on traditional care models.

The scheme's stated aim is to "shape new towns, neighbourhoods and communities to promote health and wellbeing, prevent illness and keep people independent," as well as "radically rethink delivery of health and care services in areas free from legacy constraints, and supporting learning about new models."

Since HNT's 2015 launch, 14 demonstrator sites across England have been selected from 114 applicants offering housing and supporting infrastructure including healthcare facilities for more than 170,000 individuals. These include: Darlington, encompassing 2,500 residential units across three linked sites; Northstowe, where 10,000 homes on former military land are planned; and, perhaps the most ambitious pilot scheme, Ebbsfleet, which aims to deliver 15,000 new homes to a location just outside the M25.

Fundamental to the process is a close scrutiny of how urban living affects health and how design interventions can benefit is key to the process, with example questions including: "Why are children happy to walk all day round a theme park but often get



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bored on every-day journeys? Could adventure areas be designed into streets to encourage walking and play?" And, with reference to the ageing population: "How far away are we from a town where more older people live independently and safely in their own home, backed by better technology and social support?"

Joining things up

HNT intersects with the built environment most saliently through its push for a much more interconnected healthcare offering, making services of prevention and care more effective as well as accessible to the user.

Vital opportunities to establish cutting-edge healthcare mechanisms have been identified in new housing developments, with 'joining-up' the key theme. For example, construction of multigenerational housing is intended to provide a platform to connect older and younger generations, combatting problems associated with social isolation.

Designing 'care' into housing to prepare properties for certain demographic inevitabilities is also on high priority. This includes ensuring every part of the building is highly accessible to those with disabilities, and fitting them with tools and facilities as a means of moving care into the home.

Beyond housing, the scheme encompasses a focus on more joined-up healthcare provision locally. In an article published by the Design Council, Danny McDonnell, strategy programme manager for HNT, wrote: "an example of re-designed service provision is a diabetes clinic running alongside occupational therapy, dietetics and diabetes support services to enable diabetic patients to receive much of the treatment and support they need in one place on the same day."

Joined-up approaches point not only towards co-location of our healthcare facilities, but they also stress the role workspaces play in health for our towns – said to heighten levels of community engagement, eliminate the ills of daily commuting, and improve mental health in general.

Going digital

Digital technologies also play a pivotal role in HNT. With the internet having ushered in an era of hyperconnectivity, the benefits need to be harnessed to help consolidate healthcare processes and make them more efficient, say the scheme's proponents.

Mario Bozzo, director of IBI Group, the key design advisors for the overall HNT scheme, endorses technology as a "key enabler to improving health outcomes" through transforming the delivery of health and social care.

IBI Group has identified a three layered approach to "digital maturity", based, first and foremost, on infrastructure, such as 5G connection and system integration with digital applications and tools, all governed with strong leadership to encourage readiness and participation in the local population.

Digital healthcare services like telecare, telehealth, telemedicine, and e-health could then be rolled out to expand communities' access to services. 'Disruptive' technologies such as the Internet of Things could be implemented to enhance people's security and control over utilities, allowing them even to self-diagnose, self-monitor, and even self-care.

At a recent conference, Bozzo cited influence from tech giants like Google Labs, "building communities from the internet-up," acknowledging the ever increasing presence of digital technology in people's lives.

Pilot regeneration

In terms of scale, Halton Lea at Runcorn, a pre-existing new town, is one of the more modest pilot schemes in the Healthy New Towns initiative. The mixed-use brownfield development and regeneration project aspires to form a new community hub and bring 800 new homes to the area.

Philip Liu of Citiesmode was project lead on the winning submission for Halton's design innovation challenge – Halton Connected – which encouraged practices to spur new ideas and recommendations for implementing HNT's values on the ground.

Liu recollects his first visit to the site, where he saw a community already "designed very much in the 'new town' form - residential neighbourhoods appeared disconnected from the shopping centre, set within network of paths (many of them elevated) where pedestrians are separated from cars."

"The key thing that we realised was that this 'disconnection' was not just physical, but also in the sense of place for people living in the area – a mental disconnection from place," Liu explains.

An extension of the 'joining-up' theme, part of Citiesmode's design recommendations were connecting a nursery with a farm to increase dietary awareness among children, as well as multigenerational housing bringing the young and the elderly together.

The NHS having more interest in planning is certainly a welcome development for bringing health back into planning

Challenges

Despite the benefits, the programme inevitably throws up questions. With any such initiative, stakeholders are diverse abundant, while the decision-making frameworks they inhabit in constant redefinition and expansion. Can the 'hyper-democracy' of considering every need and desire of local interest groups, developers, and government co-exist with the drive to deliver the sorely-needed housing numbers?

Given that most HNT developments are founded using private capital and expertise, on publicly-owned land, will this mean more privatisation of public assets? Also, with the question of individual health raising issues of personal choice, does HNT's attempt to shape residents' transgress into a problematic paternalistic territory?

One thing is certain, Healthy New Towns has been formulated with the best intentions. Its bold initiatives present a highly inter-disciplinary and participatory solution to a complex set of problems affecting millions in the UK. For architects and planners, it brings concerted masterplanning to the forefront, highlighting the significance of design decisions in how people live their lives day to day.

Liu concludes: "What has happened in recent decades is that planners have focused on building houses, and any thinking on the health and wellbeing of the people living in these new homes and communities has fallen by the wayside. The NHS having more interest in planning is certainly a welcome development for bringing health back into planning."

NEW ARRIVALS

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



NEW DIRECTORS ASSAEL ARCHITECTURE

Assael Architecture has announced a raft of promotions as it looks to expand further in 2018. Loren Thanyakittikul becomes a director having joined Assael in 2006. She has a passion for residential led, mixed-use schemes in sensitive urban areas and one of her key projects includes the design of Rainsborough Square, a development of 40 luxury townhouses and 10 apartments in Fulham. Loren (pictured left) also had a primary role in the masterplan of the 900-home Great West Quarter development in west London, working closely with Barratt London. Adam Johnston, promoted to associate director, has played a leading role in driving Assael's sector-leading position in build to rent (BTR), working on a national design code for 'be:here', as well as many for-sale developments for London Square.

Also promoted to associate director is Emily Newton who joined Assael in 2011. Emily has been a key player in Assael's heritage-led projects, working on the Grade II-listed Carriageworks in Bristol and Ham Mill in Stroud, as well as large mixed-use developments in Battersea Nine Elms and Bromley-by-Bow. Emily will be leading on Assael's design quality reviews, "ensuring that Assael consistently achieve architectural excellence across all projects". Assael has won several employer awards including *The Architects' Journal* Employer of the Year and *The Sunday Times'* Innovation in Engagement award. The company is looking to further expand its team over the coming months at all levels.



RICHARD JORDAN PERKINS+WILL

Perkins+Will, has announced the strategic promotion of Richard Jordan to head of corporate interiors in its London studio. Richard will be responsible for maintaining and building on the company's position as one of London's top three corporate interiors firms, leading a group of 70 designers and driving the team's continued growth. He will work closely with Linzi Cassels, principal and design director on Perkins+Will's global design board. With over 25 years' experience working in commercial office design for global organisations. Richard has a track record in delivering interiors that combine creative design with health and wellbeing initiatives in collaboration with a range of leading organisations.



CHRIS CROMBIE & DEBBY RAY WOODS BAGOT

Woods Bagot has made two senior appointments as their expansion continues, appointing Chris Crombie as the new transport leader for Europe and Debby Ray as associate principal to build on recent wins in all sectors. With 15 years of global experience, Chris's career has focused on winning, developing and delivering world-class transportation projects for both aviation and rail, including: Heathrow Terminal 2B and the world's largest single terminal at the New Istanbul Airport. Debby's flair for design is matched only by her passion for sustainability. She is registered in both the UK and the US, and joins Woods Bagot's London team with 25 years of experience leading high-profile and award-winning projects both locally and internationally. Debby has previously worked for Alsop, AHMM and Perkins & Will across the education, residential, commercial and masterplanning sectors.



ZUBIN MASTERS & MATT HUTTON BOND BRYAN

Bond Bryan has appointed Zubin Masters and Matt Hutton to their board of directors. Zubin (left) is a long-serving member of the Bond Bryan team and has helped to shape all parts of the business since joining in 2004. Matt joined Bond Bryan's Sheffield Studio in 2003 as a trainee architect and is now one of their leading designers. He has led a number of multi-award-winning projects at Bond Bryan including: The University of Sheffield's Humanities Research Institute, Sheffield Hallam University's Charles Street Building and The David Hockney Building for Bradford College.



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ARVAL HEADQUARTERS, ITALY PIERATTELLI ARCHITETTURE

Pierattelli Architetture has designed a concept combining in one project a distinctive iconic shape, technological innovation, and social and environmental sustainability. Arval is one of the leading companies in long-term car rental and its new headquarters in Florence represents the themes of social and environmental sustainability that characterise the company. The "Photovoltaic Bolt" aims to be a building that "architectonically represents a landscape landmark – an architecture where the word 'sustainability' is not just an abstract or decorative concept". The "Bolt" is a Climate House Class A building without emissions and self-sufficient thanks to geothermal pumps and photovoltaic panels. The 7000 m² of offices and common spaces are distributed over three floors and a basement that each host about 200 employees per floor. Spaces are articulated around a central dorsal on a north-south axis to provide an east-west direction and guarantee a correct sunlight position. The complex has huge photovoltaic wings, realised through special photovoltaic flexible panels with a high efficiency, located on a lightweight steel structure and integrated with the ones on the roof.

Ref: 9863



NOVAWOOD OFFICE AND SHOWROOM, TURKEY STUDIO VERTEBRA

Novawood Office and Showroom Building has been designed by Studio Vertebra for a company that produces wood and forest products, in Istanbul. The yard in front of the building can be used as an activity/event area. There is a showroom area to exhibit wooden products on the ground floor, and office units on the other floors. More efficient areas have been designed in the interior spaces by reinforcing the bearing systems of the structure and moving the staircase to the rear. The opening on the ground floor not only provided a secondary entrance to the basement floor but also fed the courtyard with natural light. The building has won two prizes in the categories of Building Architecture and Interior Architecture of the Space in the Europe Property Awards.

Ref: 4252



HELSINKI CENTRAL LIBRARY OODI, FINLAND YIT / ALA ARCHITECTS

Helsinki Central Library Oodi will open in December 2018. The construction work at the Oodi site has already progressed so that the shape of the building is starting to become clear. Antti Nousjoki, a partner at ALA Architects says: "The structural details of the glass facade are especially ambitious. The prints in the glass have been realised with a state-of-the-art printing technique – an algorithm has been used to define the placings of dots in the pattern so that there is no repetition. The result will be hazy, as if a cloud had landed by the windows".

Ref: 1813



NEW OFFICE, CLICHY-BATIGNOLLES, PARIS CHARTIER DALIX AND BRENAC & GONZALEZ & ASSOCIÉS

The building is part of the extremely dynamic renewal underway in the Clichy-Batignolles district, an area characterised in part by the convergence of railways leading to the Gare Saint Lazare. The "ribbon" plan offers an open facade in relation with the context of the train tracks, the street and the park. Like the Möbius ribbon, the exterior and interior spaces "interlock on all sides of the building", enabling "easy and fluid" movement and visual continuity from the outside, from the ground floor up to the roof. The whole building is clad with enamelled terra cotta, a reference to the industrial buildings standing along the train tracks. Applied on all the facades, the skin's appearance changes according to the direction in which the facades are facing and according to the quality of daylight and current weather conditions. **Ref: 6081**



GLOBAL BUSINESS GATE, SWEDEN NCC

NCC has launched a partnering arrangement with Global Business Gate for an entirely new office project in the Masthuggskajen district in Gothenburg. Global Business Gate will be an innovative hub and a meeting place for the export industry and global specialist companies working in international business. The project consists of two buildings, totalling 40,000 m², that will be built on a new peninsula stretching approximately 100 metres out into the Göta Älv river in the Masthuggskajen district in central Gothenburg. The project has been divided into two phases, in which the parties will first produce programme documentation, system documentation and project scheduling. The second phase will concentrate on continued project engineering and construction. Global Business Gate is expected to be completed in 2021.

Ref: 2227



NORWEGIAN GEOTECHNICAL INSTITUTE, NORWAY SCHMIDT HAMMER LASSEN

Norwegian Geotechnical Institute (NGI), Norway's largest geotechnical specialist community and a leading centre of research and consultancy. selected Schmidt Hammer Lassen Architects to design a new, contemporary campus. The campus complex will comprise two new buildings linked by a common entrance area across two levels, and will make room for up to 300 employees. The largest of the two buildings has a central 'panoptic' space that creates visual connection and social interaction between people across floors. It will be possible to look into the advanced laboratories where NGI's vital activities unfold. According to the architects, the building's facade and its framed openings "create great transparency, inviting sights from the outside and optimising the intake of daylight". Roof terraces, solar panel systems and green roofs make up the building's horizontal surfaces. In addition to the advanced laboratories, the building also includes a central canteen and dining area, offices, meeting rooms, atriums, courtyards, and basement parking. The entire complex will be sustainable and viable in accord with BREEAM NOR environmental certifications that are setting new standards for sustainability.

Ref: 9923

CPD FOCUS

The latest CPD courses, seminars and documents for architects

RENOLIT LAUNCHES NEW RIBA
APPROVED SURFACE DESIGN CPD



RENOLIT has launched a new CPD seminaron the flexibility and uses of thermoformable PVC as a decorative surface which illustrates the benefits of PVC films over other decorative surface materials. The seminar provides architects with an understanding about PVC and its common uses within interior construction projects. It informs how to recognize different types of surfaces films, their applications and raises awareness of some specialist applications. 01670 718222

www.renolit.com/design

NO SMOKE WITHOUT FIRE: UNDERSTANDING FIRE DAMPERS



This CIBSE accredited seminar from Swegon Air Management outlines the need to understand and comply with tested methods when selecting, installing and using fire and fire/smoke dampers. Attendees are educated in damper design, selection, installation, testing, analysis and performance. It aims to highlight and clarify the differences between fire and fire/smoke dampers. The seminar stresses the critical responsibility of all parties involved in the overall sequence from system specification through to compliant installation. Emphasis is placed on the need for all parties to work as a team in order to achieve this goal. 01746 761921

www.swegonair.co.uk

NORCROS ADDS ANHYDRITE SCREEDS TO ITS PORTFOLIO



Architects and specifiers are set to benefit from the latest RIBAapproved CPD seminar from Norcros Adhesives. Called Solutions for Tiling to Anhydrite Screeds, the new seminar has been specifically developed for architects, specifiers and large contractors, to provide important information for construction industry professionals who require guidance on these types of screeds. There is a lack of published detail readily available on the subject of anhydrite screeds and customers frequently contact the Norcros technical department seeking information. 01782 524140

www.norcros-adhesives.com

'STEP ON IT!' SPECIFICATION OF ENTRANCE MATTING



Quantum Flooring Solutions -RIBA approved CPD seminar STEP ON IT! is a presentation and discussion dealing with the subject of specifying safe and effective entrance matting. The CPD presentation includes: What entrance matting is designed to achieve and how to select the right one; How recent BRE guidelines affect the choices for specifiers: Environmental and health and safety considerations applicable to the manufacture. installation and maintenance of entrance matting.

0161 627 4222 www.quantumprofilesystems.com

CHIMNEY DESIGN AND RESTORATION OF FLUES AND DUCTS



Flue Liner Solutions are offering a RIBA approved CPD presentation entitled Chimney design and restoration of flues and ducts. This seminar will give an overview of chimneys, factors to take into account when designing buildings and an awareness of common problems. It will help architects to understand the following topics: chimney design and sizing; flue lining systems and suitability for different appliances and fuel types; remedial works to existing chimneys; maintenance requirements for chimneys as well as understanding chimney terminals and chimney fans. 0203 858 3888

www.fluelinersolutions.co.uk

TWO NEW RIBA APPROVED CPD'S FOR SPECIFIERS AND ARCHITECTS



record, has launched two new RIBA approved CPDs. Automatic Doors Standards and Considerations: Transport & Aviation, provides guidance on issues, danger points and standards when specifying automatic doors for transport and aviation projects, in particular specialist, security enhanced doors. Automatic Doors for Healthcare - Standards & Considerations focuses on key design considerations and relevant standards whilst looking at product solutions for the safe movement of people and goods within healthcare environments. 01922 669341

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NEW CPD SEMINAR DAY AT THIS YEAR'S TTA AWARDS



The Tile Association is launching an exciting new event which will take place alongside the annual TTA Awards at The St Johns Hotel, Solihull, on 18 May.

The Association is to host a full day of CPD presentations from TTA member companies, who are also Gold sponsors of the Awards. This will be a great opportunity for architects and specifiers to update their CPD credentials in the tiling sector, by attending one or more of the 45 minute RIBA-accredited seminars on offer.

There will be six separate sessions held throughout the day, starting at 10am.

The range of material to be presented will be both wide and highly relevant, ranging from wetrooms to underfloor heating and from anhydrite screeds to façade systems. These topics cover a number of the key challenges which currently face architects and product specifiers in today's construction market. The presenting companies and the subjects of their presentations are as follows:

- BAL External Tiling Solutions for Balconies and Terraces:
- Shackerley (Holdings) Group Ltd – SureClad Ventilated Facade Systems;
- Norcros Adhesives Tiling to Anhydrite Screeds:
- Instarmac Underfloor Heating;
- Nicholls & Clarke Group Creating a Watertight Wetroom;
- Trimline Group topic to be confirmed.

0300 365 8453 awards@tile.org.uk

BAL LAUNCHES NEW REVISED RIBA-APPROVED CPDS



BAL have launched three new revised RIBA-approved tiling CPDs. The CPDs, entitled "Floor Tiling Solutions for the Modern Build", "Tiling Solutions for Heavily Trafficked Areas" and "Tiling Solutions for Leisure Centres", have been re-launched with up-to-date technical information to better reflect the changes in British Standards and building and construction trends. Each CPD has been created with architects in mind and provide design and specification guidance and practical advice on preventative measures and the use of correct materials. 01782 591100 www.bal-adhesives.com/ specifiers/riba-approved-cpds

VORTICE RUNS RIBA APPROVED CPD SESSIONS COVERING MVHR



Specialist ventilation experts Vortice Ltd are running a series of RIBA approved CPD seminars this year. The first two, which were launched this month, focus on mechanical heat recovery systems, one for the domestic market and one for commercial applications. Entitled Why ventilation with heat recovery is the right choice and Commercial mechanical ventilation with heat recovery guide, each seminar lasts for between 45 minutes and an hour including time for questions and they are ideal for lunchtime sessions. 01283 492949

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TWO NEW RIBA ASSESSED CPD SEMINARS FROM COMAR



In two RIBA assessed seminars, Comar outlines: Stand & Deliver: a Study of curtain Walling - the design of curtain walling, it's properties and how it is used by specifiers. This seminar aims to offer an understanding of the points of Hll in the NBS specification system, and how best to make use of it. Designing functions & reliability into entrances - the issues that influence the function of main entrance design and technology. This seminar aims to offer an understanding of how user expectation influences door design and links this with hardware selection, entrance configuration and floor finishes. 020 685 9685

www.comar-alu.co.uk

Sto helps new health care centre win



A palette of different materials provided by Sto has helped transform a successful architectural design competition entry into an award-winning community healthcare centre in Northern Ireland. The company's superior StoTherm Classic external wall insulation system, StoRend Cote render

www.vortice.ltd.uk

and StoLotusan render finish were used on the Banbridge Health and Care Centre in County Down, by Kennedy FitzGerald Architects in association with Avanti Architects. The completed building has won an unprecedented number of awards.

01418 928000 www.sto.co.uk

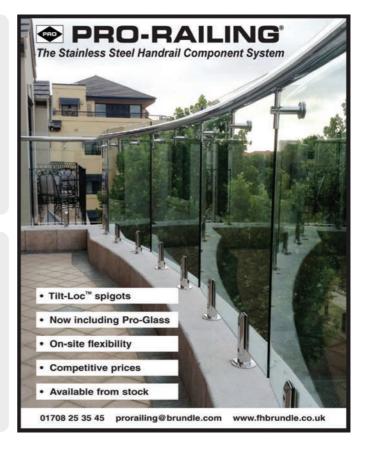
Kingspan builds ductwork BIM objects



Kingspan Industrial Insulation is demonstrating its commitment to the industry-wide advancement of Building Information Modelling (BIM) with the launch of free BIM objects for The Kingspan KoolDuct System, Kingspan Kooltherm FM Duct Insulation and

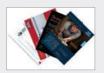
Kingspan Therma Duct Insulation. The new items are compliant to BIM Level 2 - the mandatory BIM standard for all public-sector buildings. They are suitable for use on ductwork and associated products with an operating temperature range of -20°C to 80°C. They can deliver thermal conductivities as low as 0.022 W/m.K.

01544 388 601 www.kingspanindustrialinsulation.com



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More products, more info



Choosing and using Mighton products has been made easier than ever with two new, product-dedicated catalogues with extended ranges and quick-navigation format. For 2018 the company has launched separate catalogues for its core ranges, making each more focussed

on each customer's needs, as well as adding new product ranges and much more technical and how-to information. The main hardware catalogue is packed with all the best in window and door hardware, including Mighton's new Armourer range of security products as well as the acclaimed Angel Ventlock sash window restrictors.

01223 497097 www.mightonproducts.com

BCT appoints new commercial director



British Ceramic Tile has made a strategic new appointment to its Board, announcing John Chater as commercial director. A new senior position within the business, John will assume responsibility for the company's sales, marketing, design and product development departments, with a focus on

driving forward the company's impressive portfolio and brand across the housebuild and specification markets. British Ceramic Tile's Chief Executive, Tony Taylor, said: "John comes from the food industry and brings considerable expertise that will complement our existing skill set as we continue to grow our business in 2018."

0207 490 0338 www.britishceramictile.com/specification

New year, new products



Freefoam Building Products have got off to a cracking start in 2018 with the launch of two new products ranges – Anthracite Grey Round Gutter System and an Acrylic interior panelling range. Colin St John, Commercial Director, "We're delighted to launch these new products at the beginning of the year. It shows our commitment to creating new openings for our customers and these new products will open up new markets and give customers the range to meet demand from both housebuilders and the refurbishment sector". Acrylic panels – The ultimate modern wall panel giving the perfect balance of style and convenience and the ideal alternative to tiles - saving time and money. Designed to be easy to fit the Acrylic panel range features a unique tongue and groove fitting system. Anthracite rainwater range – The addition of a round gutter system is the next logical step to give Freefoam customers more choice and the flexibility to meet demand from housebuilders and specifiers. The Freefoam grey rainwater system is manufactured exactly to Ral 7016 allowing customers to create a truly co-ordinated design with matching fascia, soffit and guttering, doors and windows.

01604 591110 www.freefoam.com



Treatex Hardwax Oils

Produced on a base of natural, sustainable raw materials, Treatex Clear Hardwax Oils are designed to protect and enhance the appearance of all interior wooden surfaces. Receive 30% off your order at the Treatex sample store when you enter code: ADF30 offer valid until 1/04/2018 - visit www.treatex.co.uk/sample-store

EverEdge in Winterfell



The iconic Castle Ward in Northern Ireland is famous in its own right for the stunning gardens and mansion. Many people may know the Castle more now because the farmyard is used as the backdrop for Winterfell, the castle used

by House Stark in the HBO series Game of Thrones. Over 500m of EverEdge ProEdge steel landscape edging has been installed into the garden to define the shapes, which have all been mathematically designed. Work continues through the winter as the team of volunteers and staff work tirelessly on this wonderful project.

01453 731717 www.everedge.co.uk

Firestone used for lake refurbishment



Specialist Contractor, Fairwater Ltd, was contracted to refurbish the lake at The Weald & Downland Living Museum, Chichester, using Firestone PondGardTM EPDM. Failure of

the pond's lining system had resulted in loss of water level and the museum's team had been forced to 'top up' the level to allow the water wheel to operate. To address this and improve landscaping at the site, the refurbishment was undertaken as part of a Lottery-funded scheme to create a new visitor centre and cafe.

01606 552026 www.firestonebpe.co.uk

A Heavenly Restoration of Grade I Listed Church



Williams & Burrows Heritage Repair Ltd are specialists in the repair and maintenance of historic buildings. Based in Devon - with over 50 years experience, they were the ideal contractor for the refurbishment of St Michaels and All Angels Church, a Grade I listed building in the heart of Exeter. The church required a complete overhaul and replacement of the rainwater system to the north and south aisles, vestry and sacristy. The order for cast iron guttering and downpipes was placed and ARP responded with a speedy delivery date. All products and accessories were painted semi-gloss black in our in-house wet paint line and then suitably packed and despatched to site for installation. The sizeable order included Britannia cast iron moulded ogee gutter and reBuctangular cast collared downpipes. These products were chosen for this project specifically as it is a high quality and conservation equivalent product ensuring that all heritage considerations were adhered to. The Britannia range of gutters, downpipes and hoppers are available either primed or painted to eight standard colours.

0116 289 4400 www.arp-ltd.com



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BUILDING

PROCURATIE VECCHIE VENICE

A grand transformation

David Chipperfield Architects has embraced the daunting task of transforming one of Venice's most important historic buildings for a very different future use. Roseanne Field reports

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ven if you've never visited, you are likely to be able to mentally picture Venice's Piazza San Marco (St Mark's Square), as it's one of the historic city's most famous sights. It's not only one of Italy's most popular, and populated tourist spots, it's world famous. It's so popular that the city's mayor Luigi Brugnaro is considering introducing a traffic light system to control the flow of people across the Piazza to stop overcrowding.

The Procuratie, three buildings which line three sides of the square, are its dominant architecture, their famous colonnades housing extortionately-priced coffee shops. One of these high-profile edifices is the site of a major new restoration and transformation project.

The oldest of three, initially constructed as a two storey building in the 12th century, the Procuratie Vecchie (translated as 'old Procuratie') runs along the northern side of the square for 152 metres. It faces the Procuratie Nuove (new), built in the 16th century on the south side, with the shortest of the three – the Napoleonic Wing, having been added in the 19th century on the west side.

The Vecchie didn't become the iconic, and colossal, four-storey building it is now until the early 16th century when it was rebuilt after a fire. The three-storey building was designed by Codussi and finished by Jacapo Sansovino under the then Doge Andrea Gritti's refurbishment programme. It was one of the first buildings in Venice to

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be built in the early Renaissance style, and set the tone for much of the construction in the city that followed.

During Venice's time as a city-state, the building was the headquarters of the government, and housed the offices and apartments for the Doge and his nine 'procurators' – officers of the Treasury – hence the name Procuratie. The building was the embodiment of the power of the Doge himself, who although elected, tended to come from a wealthy family.

Since the Napoleonic take-over and consequential demise of the Doge's role in the 18th century, the Procuratie Vecchie has had a number of tenants. The current and long-standing occupier is Italian insurance company Generali, whose Venice head office has been in the building since 1832. In the intervening 185 years, the company has purchased the building in increments, carrying out attendant work on it between 1909 and 1914, and in the 30s and 40s.

However Generali has a new intention for Procuratic Vecchie to 'give something back,' particularly interesting given the building's historical relationship with power, wealth and aristocracy.

The Human Safety Net

Despite its long tenure, Generali has found a new headquarters in the city, and is launching a new philanthropic initiative – The Human Safety Net – which will have its home in the Procuratie Vecchie. In a striking contrast with the building's historic use, the scheme will be helping some of the most vulnerable people in society.

The Human Safety Net will focus on three specific areas: supporting refugee business start-ups, saving newborn babies from asphyxia, and creating opportunities for disadvantaged children. "Our mission is to protect people's lives," said Generali CEO Philippe Donnet at the project's launch. "In some cases people have real problems that cannot be solved with an insurance policy. Generali is like a person, not only does it have a brain but also a heart – The Human Safety Net is going to be the heart."

As well as providing a prestigious home for its new initiative, Generali will also be creating spaces in the building that will be accessible to the public for the first time in over 500 years. Following an international competition, the company appointed David Chipperfield Architects (DCA) to carry out the works – a practice that's earned itself a reputation for its delicate handling of important heritage buildings,

demonstrated by its boss' knighthood for services to architecture. "Mr Donnet talked about Generali being the brain and The Human Safety Net being the heart, and I suppose that I'm having to deal with the body," Chipperfield himself commented at the launch.

Chipperfield's portfolio of heritage projects was recently augmented by the rebuilding of Berlin's Neues Museum, and accolades for the firm include the RIBA Royal Gold Medal for Architecture and Japan's Praemium Imperiale. The practice's reputation for respectful restoration has led to them working on UNESCO World Heritage sites around the world – so perhaps Venice's high-profile status was less daunting to Chipperfield than it would be to most.

Building projects in the city are governed by the 1973 Special Law for Venice, which largely focuses on safeguarding the city from flooding – an unfortunate side effect of building a city on top of 118 small islands. The city's unique composition also means that all building materials for the project will arrive via waterway.

The Procuratie Vecchie itself is protected by a Legislative Decree, under Italy's Code of the Cultural and Landscape Heritage Act. Far from presenting hurdles, the legislation in fact encourages the renovation of architectural heritage buildings, in order to prevent them falling into disrepair.

The city council announced recently that it would be allocating €43m to the maintenance of both the historic centre and wider mainland. This is set to include the maintenance of public parks, improvement of the hydraulic and sewage system, renovation of residential buildings and improvement of accessibility.

All key stakeholders in the project are of course only too aware of the sensitivity required – particularly given the building's prominence – and none more so than Chipperfield. However, he noted that there is considerable work to be done to realise the client's ambitions: "These spaces are a little bit forgotten," he commented, adding: "We don't want to destroy their character."

Design approach

Before any major work can begin on upgrades, extensive work has had to be carried out to evaluate the Procuratie Vecchie's current condition, and this began in March 2017. "We're in the very early stages of the work," explains Chipperfield. "Some physical works have been done onsite and that's mostly to do with strip-

ping out and opening up certain areas to better understand the condition of the building."

One of the biggest obstacles to the project so far has been addressing the work that's been done previously to the building, as it "has been compromised by successive modifications and adaptions over centuries," says Chipperfield. "Over the years a building such as this suffers practical modifications, logistical modifications and technical modifications which are not always done with sufficient reflection. It is the nature of projects like this that many of the improvements will have been done in an ad hoc and very improvised way."

It's important to both Generali and DCA that the building regains the identity that's been lost by the various alterations undertaken and different uses it's had over time. "There are implicit contradictions in the way the building's been built and the way it has been used," explains Chipperfield. "Going back, this doesn't have just one history." He explains the design approach – rather than replicating historical features that have been lost, Chipperfield says they will "consider" them.

The project team has also faced the challenge posed by what Chipperfield describes as "a very charming quality to this building, which is quite difficult to understand from the front." The formality and apparent coherence the classical facade implies isn't reflected inside the building. "In the thickness of this building you have the negotiation between the civic formality of the square and the real nature of Venice, which is much more organic," he explains.

Proposals

While much of the design is still to be finalised, DCA and Generali have already put together some proposals and aims for the project, centering around the necessary structural work required to repair the building and make it safe. Much of the flooring throughout the Procuratie Vecchie will need strengthening and restoring.

Rooms throughout the building will also need updating in order to comply with various laws and regulations. Fire prevention methods and means of escape are required, and the building also needs to be made suitable for use as a workspace with appropriate acoustics, lighting and technological plant. "Through proper integrated planning as we are doing now, it's much easier to integrate technical systems," explains Chipperfield. "They don't have to be in conflict with the historical building,"



he asserts. He says that the clear goal is to "turn it from a 16th century building into a 21st century building."

The restoration will also see the design team placing a focus on making sure the building is accessible for all visitors, particularly important given the focus on equal opportunity that sits at the core of The Human Safety Net programme.

The work will also involve the refurbishment of existing decorative elements that have remained reasonably intact over the years, in an effort to retain the best of its past while also removing that which isn't contributing to its design integrity. Chipperfield explains: "We're trying to find a new integrity in the building which is combined from what has survived and understanding what we can remove, and from that rejuvenate the building and find its spirit again."

The existing internal layout of the building is also going to have to be altered drastically in order for it to be suitable for its new functions as a flexible headquarters.

MAKING AN EXHIBITION

Render of the planned first floor exhibition space © David Chipperfield Architects

It was one of the first buildings in Venice to be built in the early Renaissance style



MAIN PICS

The Procuratie Vecchie (left of above image) frames one side of Piazza San Marco

© Gabriele Maltinti

BOTTOM RIGHT

Drawings of landscaping planned for Royal Gardens – which are being restored to the south of the square

Generali will be creating spaces in the building that will be accessible to the public for the first time in over 500 years

The current layout constitutes 12,800 m² of space that is essentially a single, connected area. This needs to be subdivided to form the individual spaces required for its variety of future uses.

In order to host seminars and exhibitions and house office spaces Generali requires the interiors to have some flexibility and adaptability, so they can be used "both horizontally and vertically." The Human Safety Net will be occupying the third and fourth floors of the building, so plans allow for two new staircases to be installed. These have been carefully designed to integrate with the history of the building and are inspired largely by staircases designed by Sansovino, the Procuratie Vecchie's original architect.

Much of the area on the third floor has been unused in recent times. This is where Generali envisages people "exhibiting, meeting, working and discussing ideas." The space features traditional 16th century wooden beams and terrazzo flooring which will both be reinstated and preserved as much as possible.

The brick walls in this area will then be repaired and lightly whitewashed in order to give a clean appearance, yet not disguise or hide their original composition, which will be allowed to show through. Large archways will be installed in the walls, connecting the individual spaces as one while also retaining a sense of separation. This design will also reflect the original sequence of the rooms along this floor.

Lastly, to combat the reoccurring problem of flooding in the piazza, Generali plans to construct reinforced concrete tidal tanks that guarantee protection up to a tidal height of 175 cm. The tank is made up of concrete stalls connected to the building's outer walls that prevent the rising of the tide. The system will also allow for stainless steel mobile gates to be added externally across the ground floor during high tides.

The Royal Gardens

As Chipperfield explains, projects like this sensitive major restoration "cannot work in







isolation." Illustrating the benefits of considering the wider public realm, proposals have also been put together by the client to open up routes through the Procuratie Nuove on the south side of the piazza to the Royal Gardens, which are also being redesigned.

For this, Generali is working in partnership with the Venice Gardens Foundation. Sitting on the Bacino di San Marco waterfront, the gardens will be connected to Piazza San Marco via a drawbridge that has lain derelict for years. The gardens have also suffered from neglect in recent times, that has left them unrecognisable from their original layout and design.

Landscape architect Paolo Perjone will restore the gardens to better reflect their original design, while the pergola, coffee house pavilion and drawbridge – all of which are currently in a state of disrepair – will be restored, and the greenhouse rebuilt, to a design by architect Alberto Torsello.

The Procuratie Vecchie restoration is expected to finish by 2020. Both Chipperfield and Generali are hopeful that it will not only revive an important building, but will also have a positive impact on one of the crown jewels of Venice – Piazza San Marco – bestowing on it a new and worthwhile function for the future. "Reclaiming it as a working environment, no longer just a destination but a source for ideas and interactions will have an impact

far beyond its four corners," says

Chipperfield.

For the project to have the effect and success that's envisaged, it's vital that it's approached in an appropriate way – and Chipperfield's practice is well placed to undertake the difficult balancing act between past and future. "In my experience, projects like this are delicate; they're not based on image, they're based on material and how well they're done," he says. "At the heart of this will be a real understanding and respect for the history of the building."









BUILDING

PIONEER VILLAGE & FINCH WEST STATIONS TORONTO

New departures

When it came to designing two new subway and bus stations in Toronto, Will Alsop decided to make a departure from traditional transport hubs, and to try and provide a little joy for commuters James Parker reports

Till Alsop is famous for shunning timid solutions, and instead producing results that aren't only surprising and engaging, but also uplifting and frequently joyful. From the Stirling Prize-winning Peckham Library sitting on stilts, to the even loftier and more controversial Sharp Center for Design at Ontario College of Art & Design (OCAD) in Toronto, his buildings can rarely be accused of failing to grab the attention.

Alsop's practice aLL Design's international pedigree in transport was established by the unusually spacious 1998 design for the North Greenwich Jubilee Line station, now enjoyed by millions every year visiting the O2. Already well-known in Toronto for in Toronto, the architect's two new stations for a subway line extension in the city are also attracting interest across the world.

The Spadina extension constructed by the Toronto Transport Corporation (TTC) extends an existing subway line running north out of the city, connecting it to the neighbouring district of Vaughan. It features six new stations, which showcase the work of leading architects, including Foster + Partners who designed the new station for York University which falls between Alsop's two stations – Pioneer Village and Finch West. The project team behind these is joint venture The Spadina Group Associates (TSGA), consisting of IBI Group, LEA Consulting and WSP, in collaboration with aLL Design.

According to Alsop, the client's ambition was six stations which were "all different, and all good," and they certainly represent a

wide variety of architectural approaches, brightening what is fairly nondescript suburban sprawl. While Fosters' York University stop is a sleek, futuristic and low-profile form, Alsop has applied his customary joie de vivre to two very different buildings.

The TTC's chief aim for the Spadina extension was to considerably alleviate the major traffic issues many living in Toronto's suburbs (or 'subdivisions') face on the roads. Will Alsop explains: "Toronto's about 4.5 million people and growing, but the footprint is huge. The people living out in the subdivisions had no choice but to use a car."

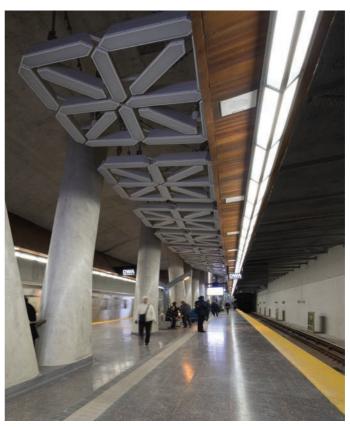
As a result, many routes are congested, for example the 401, running along the shore of Lake Ontario and thought to be the busiest highway in the whole of North America, "turns into a car park" at busy times, says Alsop. The overarching 'driver' of the new subway extension was to "get people out of their cars."

Alsop's firm were approached on the basis of its Jubilee Line credentials, says the architect: "The TTC were aware of the Jubilee Line architecture and thought 'we'll have one of those,' and to his relief it was not to be a design competition, but a direct commission. Alsop explains candidly: "[competitions] just waste so much human resource."

He says that the controversial 'box on stilts' he created at the Sharp Center for Design did not put the client off, as it had proved itself a positive addition to the cityscape. "It changed Toronto tremendously, there was a 300 per cent increase in people wanting to study at the college in







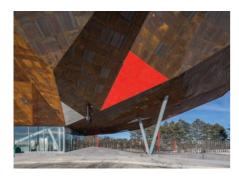
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The corten steel-clad Pioneer Village station

FACING PAGE

Finch West station is clad in cement panels





one year. In addition, the Mayor of Toronto David Miller reported a 2.5 per cent increase in tourism, which may have increased since, and it hadn't really been a tourist destination previously."

Pioneer village

Working with local contact architect Richard Stevens, now with IBI Group, Alsop set about creating a building on Steeles Avenue which would achieve some of the same revitalising power for the area – regeneration was a key aim for the client. While he gained immediate familiarity from initial client meetings where he realised some of the faces around the table were people who had worked on Jubilee Line stations, it was useful to have Stevens on board rather than set up a local office. "He speaks the language, so to speak, there are phrases used in North America that you need to unpick!"

The new \$165m station now open at Pioneer Village was originally to be titled Steeles West, taking its name from the Steeles Avenue major road which the subway runs diagonally underneath. It was subsequently renamed Pioneer Village due to the nearby tourist attraction – a "recreation of what the pioneers might have built," says Alsop.

The buildings are a refreshing change from the grey, sober stations commuters are so familiar with, and an attempt to provide a spring in their step as they board the train to work. Its twin entrances, either side of Steeles Avenue – are tall, kidney-shaped forms clad in vibrant corten steel; Alsop suggests the road's name partly inspired the choice of material. Tapering enamelled steel sections in contrasting red appear as 'legs,' alternating with generous panels of fritted glass. Partly inspired by the shape of cathedrals, Alsop says the entrances' robust but playful forms emerged organically from an iterative process to identify the right amount of internal space for users, or put simply, "keeping working until you think 'that's right'."

Both the unusual turret-like look of the entrances, and the fact their forms mirror each other, helps give the station a strong identity, enhanced by the quirky addition of its name in corten steel letters on their roofs. They can be seen from some distance away in the relatively featureless surroundings. Alsop says: "Technically it works on the basis of 'what the hell is that?" The other major above-ground design elements are two bus terminals, connected to the subway station to enable passengers to

transfer easily from one to the other, and one of which is now finished sporting a spectacular cantilevered roof.

Internally, aLL wanted to provide an inspiring, refreshing space, and a key part of this was an attempt to get daylight down to the platform level. To this end, the architects designed a sculptural light shaft, which would provide natural light to the platform level on a bright day. Even on a dull day, this highly polished and faceted stainless steel 'chandelier' provides a point of interest for users, as shown at the open day held at the station last October, which led Alsop to remark: "People were standing there fascinated; you get all these strange reflections going on when you look up."

This artistic feature enables passengers to have a connection with the sky from the platform, not often achieved in underground stations apart from notable exceptions like Fosters' much bigger Canary Wharf station. Alsop says the question of "why do that, it'll cost more," was answered by benefits to the project programme: "it was really useful for taking things in and out of the station during construction."

As passengers descend escalators to a relatively shallow depth of around 9 metres the central platform is gradually revealed with trains running either side, and angled concrete columns, echoing past Alsop projects. He rejects the idea that this is simply a 'signature' approach: "It's one of the things I'm known for, but there's usually a good reason for it, it's not just a gesture." The concrete has been formed in situ to a very high standard, with the final polished ovoid columns resembling gigantic dinosaur bones. Alsop is full of praise for the concreting, including the faceted walls, saying it's "fantastic, really beautiful" and notes that the innovative method of pumping the concrete into columns' formwork from beneath rather than above helped to avoid any bubbles.

A further art installation, called LightSpell, is yet to be switched on due to its potential for misuse. Berlin-based Jan and Tim Edler of realities:united designed 40 ceiling light elements (pictured on facing page) which could display text entered by passengers on five terminals. It remains to be seen whether this somewhat brave move on the part of the client will be realised as intended, or in a moderated form.

Seating displays further attention to detail in materials, with the white concrete benches having brass handrails to add a touch of luxury compared with a standard station offering. While passengers may not



Alsop has applied his customary joie de vivre to two very different buildings

linger long in the entrance – before presenting their Oyster-style passes in what is a cashless system – Alsop's generous and light space provides enjoyment even for a short time. He comments: "I think that any station should provide a strong experience, most people are going to work in miserable places."

The station will serve up to 20,000 passengers every day, plus a car park allowing 1,880 users to park and ride, so is hoped to make a big difference to Toronto's traffic issues. It has the potential to provide an unusually uplifting dimension to commuting in its physical form, without being overly theatrical.

Pioneer Village bus terminal

The completed bus terminal, which runs at 45 degrees from the road, and in line with the subway beneath it, enables passengers to connect easily from bus to train via escalators from the platform. However







INSPIRED

Finch West's platform level includes columns inspired by 6,000 year old Minorcan pillars

All images © Wade Zimmerman



It's a paradox that if buildings for transportation are designed properly and the trains run on time, users should not have to linger long enough in them to appreciate the architecture

while the airy interior has the same attractive white concrete and brass handrail benches as the subway station, the roof is the star of the show. Seemingly floating above the building like a corten steel manta ray, it curves downwards at its centre to protect the fully glazed waiting area, and upwards through the protective overhangs on all sides.

The Toronto weather is worse than the UK in winter (although typically hotter in summer) so protecting passengers waiting outside was essential. The massive 19 metre cantilever to the south east end, partly supported by red and blue steel posts and enlivened by one or two red enamelled steel triangles, achieves this in dramatic style.

Alsop explains the "very simple" construction. "A series of internal columns support the trusses, which are quite deep in the middle." The cantilever is achieved using additional trusses added on top of the roof – which are not visible from ground level. A sedum roof has been added although it covers a relatively small area; wild flowers preferred by Alsop were prohibited by the Canadian climate.

Each triangular panel of corten which makes up the cladding to the underside of the roof is bolted to the structure using rusted steel bolts. These were also Alsop's second choice as brass was not feasible, but he compliments the clients on supporting his suggestions: "They just accepted what I was doing, there was no real push-back, they got it. I like to think they trusted me."

Finch West

The other subway station Alsop has designed, the \$165m Finch West two stops south from Pioneer Village, takes a diametrically different approach. Its form is something of a wry comment on how rail projects can require architects to 'overdesign' to accommodate perceived future M&E needs.

The simple composition comprises a box

glazed in multi-coloured panels, on which sits a longer box, clad in black and white cement strips, with a viewing window taking up the entirety of the cantilevered entire north elevation. This upper form is principally to contain the plant, which in Pioneer Village had to be housed in a separate building. Will Alsop explains the design thinking: "I learned on the Jubilee Line that you need to build an awful lot of switchrooms, however there are also a lot that are empty, people say they need it then it turns out they don't."

He adds: "I thought, I won't make that mistake again, just make a big box that's part of the architecture, and they can fill it up as much as they want." Therefore, in future-proofing Finch West, he produced a top-heavy but interesting building that brightens up what is a pretty prosaic crossroads site. He also engaged a friend, London-based artist Bruce MacLean to work with him on the project, particularly on sculptural forms within concrete elements around the station.

Alsop worked closely with McLean, a long-term collaborator, to "develop a concept of public art being woven into the very fabric of the station, to provide a unified language of design," says aLL Design. Blending sculptural art into the architecture would also provide an echo of the distant past, alongside the modern form of the station. Examples include the columns, inspired by 6,000 year-old Minorcan pillars which supported subterranean houses, and the structures supporting the power substation referencing Ancient Greek stone caryatid figures.

Both stations include various sustainability-orientated features. These include minimal and energy-efficient HVAC, bicycle parking, green roofs minimising surface water run-off, and in the case of Finch West, a 'cool roof' painted with a special coating to reflect sunlight.

Conclusion

It's a paradox that if buildings for transportation are designed properly and the trains run on time, users should not have to linger long enough in them to appreciate the architecture. This may be why highly considered and even inspiring design might not be seen as essential in such settings.

However Will Alsop disagrees. "Ideally you shouldn't spend much time there because the service is efficient," he says, "but the time you do spend should lift the spirits. It's a simple and obvious thing to say."



From west to east with Howe Green

Howe Green has supplied over 400 access covers to Tier 1 contractors working on Europe's largest construction project – Crossrail. The new Elizabeth line will comprise 118 kilometres of track running through London and the South East and is set to reduce average journey times significantly. Tier 1 contractor Laing O' Rourke has specified over 60 of Howe Green's 7500 Series Multipart Stainless Steel Floor Access Covers for Tottenham Court Road station. The large four part units were precision made to order to ensure that they would be a perfect fit. Installed by specialist stone contractor Vetter UK, the covers have been infilled with granite to match the surrounding area. Supplied with barrel lifting points the covers fit flush with the flooring to reduce the risk of slip and trip hazards. The 7500 Series can withstand up to a 5 tonne pneumatic wheel loading.

01920 463230 www.howegreen.com

Rubb Buildings selected for sports arena



Rubb Buildings Ltd was selected to design, manufacture and construct a 40m wide x 55m long steel and fabric clad Sport Arena for the University of York. The indoor multi sports facility features an apex height of 13.4m and an internal clear centre height of 11.9m.

The Mansard, multi-pitch roof provides an internal volume of playing space at $20,600 \mathrm{m}^3$. The $6.7 \mathrm{m}$ high sidewalls and end gables feature 80mm thick steel cladding, and Rubb's Thermohall insulated fabric membrane completes the roof of the facility.

www.rubbuk.com

Dutch design showcased at KBB

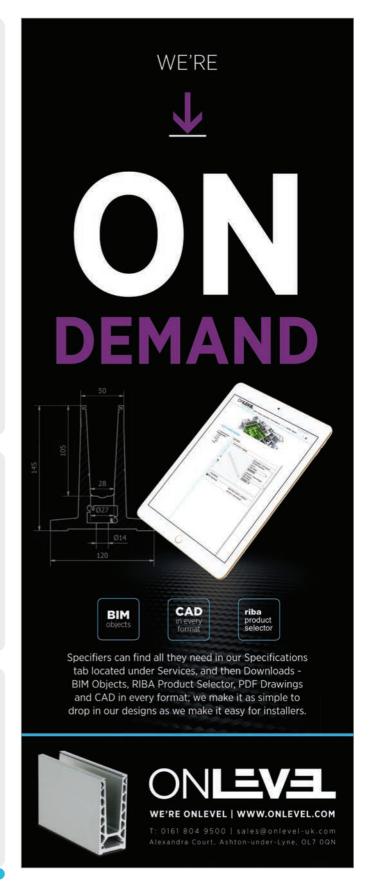


Keller Kitchens will bring Dutch design to KBB 2018, demonstrating how the company's beautiful, continental styles make every house a home. From handleless contemporary designs to industrial looks, Keller Kitchens provides the market with quality products of

the highest standard. Keeping up to date with current trends, Keller Kitchens creates a perfect kitchen for every customer. Keller Kitchens will showcase products that make use of easy-to-clean Ultra-Matt surfaces. The fingerprint-resistant coating is available in six designled colours, ensuring there is a shade to suit every kitchen.

www.kellerkitchens.com

KBB STAND NO W110



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WWW.ARCHITECTSDATAFILE.CO.UK ADF FEBRUARY 2018

Get the heads up on intimate care



Closomat are enabling housebuilders and housing providers to take advantage of a uniquely 'fit and forget' solution, that offers optimum flexibility for lifetime accessibility and support- stylishly. Closomat's top-selling range of wash & dry toilets offer floor and wall-

mounted options in WC provision that obviates the need, potentially, for care support in intimate cleansing, and delivers enhanced hygiene. The company's range of bathroom accessories including hoists, washbasins and shower seats- bring a sophisticated ambience to a functional room that addresses even the most severe disability needs.

0161 969 1199 www.clos-o-mat.com

Dallmer showcases drainage solutions



Hoping to repeat the success of its previous appearance at the venue, Dallmer will be showcasing its industry leading floor drain solutions at KBB this year. The commercial and top end residential manufacturer's stand number G75 will provide specifiers and installers, as well as other customers, with the chance to view its renowned DallFlex and recently revamped CeraLine

series of products. Dallmer sets the standard in terms of quality and flexibility, facilitating the installation of stylish showers and wet rooms for such situations as hotels, swimming pools and other leisure destinations, as well as luxury homes and medical facilities.

01787 248244 www.dallmer.com

KBB STAND NO G75

Back to nature for CRL Stone at KBB 2018



Stand F85 at KBB 2018 will have a distinctive natural feel, as CRL Stone launches a range of new colours into its CRL Quartz and Ceralsio collections. Visitors to the NEC in Birmingham will be among the first to see 11 new colours in the manufacturer's popular Ceralsio ceramics and CRL Quartz ranges, all influenced by striking natural materials including marble and granite. The Ceralsio collection is enhanced with Ceralsio Statuario which has a distinctive grey veining on a crisp white background, Carrara Vagli with a grey and gold vein that emulates the look of marble from the Tuscany quarries, Pietra Grey with subtle white veining and Ossido which replicates the industrial look of oxidised steel. With just as much versatility and the same highfunctioning qualities, the CRL Quartz range is also set to be extended at KBB 2018, with the introduction of seven new colours in two thicknesses. Taking its influence again from the trend towards natural stones, these new additions to the collection offer all the beauty of materials such as marble and granite while being extremely simple to care for and designed to last a lifetime.

01706 863600 www.crlstone.co.uk

KBB STAND NO F85



Kitchen Island, countertop, Backsplash: BLANCO CARRARA Polished Anne Sophie Rischard Residential Project, Paris (France)



www.neolith.com

NEOLITH®, Design, Durability, Versatility, Sustainability.

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A world of innovation for a world of change

Celebrating its 32nd anniversary year, kbb Birmingham, the largest and most established kitchen, bedroom and bathroom event in the UK, returns to the NEC, Birmingham from 4-7 March 2018

To register for your ticket, and for more information on what else you'll find at the show, visit www.kbb.co.uk Keep in touch with us on Twitter using @kbblive and #futurekbb





fter the success of last year's Future theme, kbb continues to forecast forthcoming trends and challenges facing the UK KBB community, in partnership with AMA Research.

Bringing you a world of innovation for a world of change, kbb Birmingham will manifest four trends and challenges in each feature across the four days – providing innovation, inspiration and insight to help businesses grow in such a fast-paced industry.

The event will combine four trends to provide the visitor with a comprehensive set of perspectives.

Society

Evolving customer behaviours are altering the meaning of lifestyle design. For example, DIY conscious early adopters outsourcing cutting edge design and smart space innovations, in turn fuelling the installer skills shortage.

Smart technology

Be it future or fad, 'smart' is creating new possibilities for those on either side of the debate. Examples include virtual reality transforming showroom buying behaviours and voice recognition modifying our use of space – while reactionaries revert to traditional kitchen and bathroom design.

Disruption as opportunity

'Disruptors' change the construction landscape to herald new design opportunities. For instance, the uncertainty surrounding Brexit stimulating house price stagnation and driving a growing refurbishment market, fuelled by equity-rich homeowners undertaking big ticket kitchen and bathroom projects.

Materiality

UK consumers are continuing to demand higher quality products and materials, e.g. worktops continuing to dominate the kitchen furniture market, calling for innovation and diversification within the surfaces sector.

The Innovation Awards, in partnership with Blum UK, aims to discover and celebrate brands who are producing products, methods and ideas that align with our theme's four trends – helping to shape the future of the industry.

Returning this year, the Retail and Design Conference will provide practical advice to help businesses grow in a world that is constantly changing. Topics to be covered include: Designing the 4G bathroom, and constructive 'how to' brand solutions.

kbb Birmingham 2018 will see the return of many great companies as well as a host of exciting new exhibitors, including: Smeg, Dansani, Novy, Franke, Samsung, Impey and Villeroy & Boch.

Award-winning kitchen designer Colin Wong will also unveil his innovative new design concept, "The Rock", at the event.

Jon Johnston, director of kbb Birmingham commented, "I'm really looking forward to another successful year at kbb Birmingham, and particularly how the community will explore and learn from this year's theme. We're welcoming a range of new and returning exhibitors, all of which will showcase a high calibre of products, methods and ideas."

Join the conversation along with over 16,000 industry buyers at the NEC, Birmingham from 4-7 March.

Abacus display new innovations at KBB



Abacus Bathrooms have long been noted as a technical expert in the bathroom industry. Abacus Bathrooms and Elements Wetrooms brands will feature at KBB 2018 and one example of the company's design innovation is the new Infinity Single-Fall wetroom

shower tray. Designed to enhance the Elements wetroom range, the Infinity Single-Fall shower tray is the only product of its kind on the market today where the one-way fall of the tray and drain are fully integrated and waterproof.

www.abacus-bathrooms.co.uk

BLANCO's new products showcased at KBB



As one of the world leading manufacturers of sinks, taps, hobs and extractor hoods for domestic kitchens, BLANCO UK is well known for design flair and high quality products. Inspired by its German pedigree, BLANCO UK will be showcasing its new brilliant designs at KBB 2018. With sinks and taps in a

range of materials, such as stainless steel, Silgranit® and ceramic, and extractor hoods, KBB will see a selection of new products made from the finest quality materials being exhibited by BLANCO UK.

www.blanco.co.uk

Tomorrow's trends today: Future Vision II



Future Vision II is a trend and colour forecast that anticipates the design needs of architects, designers and end users. The talk by Nina Bailey, UK Design Manager at Formica Group, during KBB Birmingham on 6th March at 11:30am, will focus on three main themes: 'Engineered Design', 'No Boundaries'

and 'Fluidity'. Having identified the trend drivers shaping the themes, Nina will then explore their impact on the direction of design for 2018-2019. The talk will also look at examples of early adopters.

0191 259 3512 www.formica.com

Full steam ahead at KBB



Steamist, which supplies bespoke, luxury steam rooms, showers and saunas to the residential and commercial sectors, can be found on Stand B50 at this year's kbb show in Birmingham. Visitors will get the chance to look at the ShowerSense, which enables the user to employ up to three separate outlets. Then the luxury extras include the

ChromaSense Lighting option which lets the bather switch between six colour enhancements. Steamist's TSC-450, meanwhile, offers the ability to select music/audio via Bluetooth and Wi-Fi enabled devices.

023 8058 3666 www.steamist.co.uk

KBB STAND NO B50



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Service Ducts

Experts in distribution and installation of specialist service ducts

Interflow UK is a specialist distributor of duct sealing systems for utility services offering a high level of expertise to developers and specifiers for sealing against water and gas ingress around service entries in basements and high-rise buildings.

Products from pioneering manufacturers including DOYMA, FRANK, Konex and HKD are test-certified and proven; they are maintenance-free with extended life-time warranty. Interflow's technical team assists with product selection and design advice; an installation service is also available when required.

DOYMA Curaflex® pipe sleeve 6000 used at London Wall Place



- The inside face of the sleeve provides an optimum sealing surface for the elastomer of the Curaflex® gasket insert
- Triple corrosion protected steel pipe sleeve for hydrostatic loads with integrated fixed and loose membrane clamping flanges
- · Installs flush within the formwork



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DOYMA Curaflex Nova – the new generation

Nova Uno/T & Nova Uno Broad/T

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Sealing penetrations through twin & ICF walls

Nova Uno/MS



Sealing twin-wall ribbed ducts & DH pipes.



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Nova Multi & Nova Uno/0



3 sizes seal from 25-160 OD



Blind plug

DOYMA – Simply Safer Sealing – Insurance company underwritten warranty - 25 years with up to 110,000€ compensation to cover product replacement and consequential loss

ecobuild

ecobuild 2018: the event shaped by the industry

ecobuild is returning to ExCeL London in March 2018. Under the new ownership of Futurebuild Events, the event is being designed and built around the industry, bringing to life the latest technology, thinking, and materials

The event is not only being shaped through comprehensive industry feedback, but also with direct input from leading industry influencers. These include Lynne Sullivan, Nathan Baker, Julie Hirigoyen, Darren Richards and Peter Murray, who are all members of the ecobuild Steering Group which is helping to set the agenda for the event.

Martin Hurn, managing director of Futurebuild Events, explains: "New, independent ownership offers a unique opportunity to completely overhaul the event. We believe that to be as relevant and valuable as possible, we need to understand and act on what built environment professionals want to see at ecobuild. We see our role as to facilitate the agenda, rather than dictate it, and we also believe that it is more important to bring future trends to life, rather than just thinking and talking about them."

The CPD-accredited conference programme

Sustainability will be a key focus at ecobuild 2018, giving built environment professionals the opportunity to highlight, debate and present issues that matter now and will still matter in the future. Central to the event is the comprehensive conference programme, curated by top industry figures. The programme will provide an "interactive platform for examining the big issues facing the built environment and

creating an action plan for change, focused on real solutions".

Day One begins with some of the most pressing global issues – delivering the UN Sustainable Development Goals (SDGs), the Paris Agreement, and the New Urban Agenda. The keynote speaker is Paula Caballero, global director of the Climate Programme at the World Resources Institute. Paula is one of the driving forces behind the development of the UN's SDGs.

The conference programme also includes a panel discussion on the response to the Grenfell Tower tragedy. In addition there will be focuses on solving the housing crisis and how to achieve the aim of making all buildings net zero carbon by 2050.

New, independent ownership offers the opportunity to completely overhaul the event

Sue James, content producer for ecobuild, revealed the intention to develop three key recommendations from each conference session, using audience support to shape their outputs. She comments: "This will ensure that each topic covered in the ecobuild conference programme concludes with actions that can be understood and implemented by the wider built environment."







LAMILUX supports architects and planners with a range of leading Passivhaus certified skylights. The focus will include the large glass

roof construction LAMILUX CI System Glass Architecture PR60_{energysave} and the flat-roof window LAMILUX CI System Glass Element FE_{energysave}. These have been certified by the Passive House Institute in Germany as a "pha Advanced Component", the highest Passivhaus efficiency class. **Stand D91.**



Sym-Wall Building Technologies Ltd (SBT) is set to launch its new eco-friendly SW₁₀₀ modular wall panel at EcoBuild

2018. Designed as a modern "single-module" alternative to conventional stud and plasterboard the SW100 offers a high performance economic solution for a wide range of internal and external applications in residential, commercial and industrial developments. Stop by to learn more about the new "Method of Mass Construction". Stand F42.

ecobuild sustainability showcases

Surrounding the conference arena will be the ecobuild sustainability showcases, home to the some of the most innovative solutions to the issues facing the built environment. The showcases will truly put sustainability at the heart of the event.

They will feature two full-scale builds. One of these properties is the zero net carbon home from Zedfactory which is designed to minimise fossil fuels and annual energy bills. It offers "a complete response to the housing crisis with build times reduced to two weeks".

They are also home to The Hive from The Edible Bus Stop, a multifunctional, engaging social space. The sustainability showcases don't stop there – more details about the confirmed exhibits will be released in the coming weeks.

The futurebuild districts

The conference arena and sustainability showcases are surrounded by the futurebuild districts, each of which will act as an immersive and stimulating area where people, brands and companies will be able to network and develop profitable relationships.

The Building Performance district will look far beyond construction and design, instead considering the wellbeing agenda across new build, refurb and retrofit projects. In association with the Institution of Civil Engineers, the Infrastructure district will demonstrate how the built environment can come together and plan for the future.

In the Energy and HVAC district, the latest innovations and best practices across renewables, smart buildings and HVAC will be presented through a series of seminars and workshops. The Green and Blue Infrastructure district will offer solutions in water management, external landscaping, biophilic design and biodiversity.

New for 2018 is the Timber district, in association with the Structural Timber Association and supported by Wood for Good and TRADA. This will be a showcase for the latest technological innovations and systems, alongside the Timber Talks seminar programme.

Another new addition is the Concrete district, delivered in association with The Concrete Centre and This Is Concrete. Here, information and inspiration will be shared to realise the potential of concrete as a sustainable material, as well as its range of solutions for housing, buildings and infrastructure.

Following its success last year, offsite technology will return for the second year in partnership with Explore Offsite. The district will feature a ground-breaking exhibition of offsite construction solutions and masterclasses.

This year will again see District Energy taken to the next level. The district will be hosted by the ukDEA and is in association with the Danish and Swedish Embassies. It's set to include a programme full of key speakers and debates, a networking lounge and a product launch pad.

Key partnerships

ecobuild is working with a number of strategic partners who are contributing to the overall strategy and shape of the event to ensure it is wholly reflective of the industry's needs. Notable partners include the Considerate Constructors Scheme, CIAT, NLA, Bioregional, CIBSE, The Edible Bus Stop and the Edge. The event will also host the BREEAM Awards and the Offsite Construction Awards.

You can register for a free ticket at www.ecobuild.co.uk/register

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ECOBUILD STAND NO E28

Mapei to exhibit at Ecobuild

apei, a company renowned for their long standing environmental commitment in the manufacture of construction products, will be exhibiting at Ecobuild for the 8th consecutive year in 2018. Visit Mapei at stand D40 for product demonstrations and expert advice on innovative sustainable products and how to specify for a varied range of new build and refurbishment projects.

Exhibiting in the "Building Performance" Futurebuild district for 2018, Mapei will showcase products that are responsible for the building envelope from ceramics and resilient floor systems to waterproofing, ceramic adhesives, grout and external wall insulation (EWI).

With over 80 years' experience, Mapei will be promoting all UK-active sustainable products at Ecobuild showcasing their credentials to architects and specifiers as well as providing visitors with a real understanding of the solutions Mapei offer through demonstrations. Technical assistants will demonstrate Mapei's BBA accredited Mapetherm EWI render and coating systems



Mapei will be exhibiting at stand D40 during Ecobuild 2018

in the designated demonstration area, presenting on how to ensure a high quality finish with sustainable thermal insulation. Regular practical demonstrations for the installation of large format thin porcelain tiles will also feature.

As a leading company on the global construction market and a member of Green Building Council's worldwide, including the UK, Mapei has always been strongly focussed on the development of safe and environmentally friendly, functional products



Mapei's demonstrations drew large crowds throughout Ecobuild 2017

for the construction industry. 'Sustainable' construction and consequently the saving of natural resources, water, energy and non-renewable materials along with a reduction in emissions and waste materials is of paramount importance to Mapei and are incorporated into the business's sustainable practices. This adds to Mapei's long-term, enduring commitment towards eco-sustainability, through manufacturing, certification and process compliance including ISO 14001, Mapei look forward to exhibiting at Ecobuild 2018.

0121 508 6970 www.mapei.co.uk

ECOBUILD STAND NO D40



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SBT will be exhibiting at F42 in the Offsite District of EcoBuild 2018

Contact us today on 01773 687940 email enquiries@symbuildtech.com or visit www.symbuildtech.com to find out more

Get off-site InSite from Eurocell



Eurocell is promising to deliver a whole host of benefits to the timber frame and off-site construction sectors with the launch of its new InSite window solution. InSite will enable timber frame manufacturers to install fully glazed, fully finished windows into wall panels

as part of the factory production process, thereby reducing on site disruption and labour costs while saving time on build programme schedules. A 10-year product guarantee on InSite windows provides customer peace of mind. The new system can be viewed at Ecobuild.

0800 988 3049 www.eurocell.co.uk/insite

ECOBUILD STAND NO G22

Ancon to launch products at Ecobuild



Double winner of the Queen's Award for Enterprise and holder of a string of innovation and product development accolades, Ancon will be launching its latest fixing innovations at Ecobuild on stand number C62. Ancon's stand will focus on structural fixings that are

opening-up new possibilities in zero and ultra-low energy construction by minimising thermal bridging, including its insulated balcony connectors and ultra-low thermal conductivity cavity wall ties. It will also showcase a brick-faced support system that allows designers to achieve exciting masonry facade aesthetics, quickly and easily on site.

0114 275 5224 www.ancon.co.uk

ECOBUILD STAND NO C62

Schöck software support more extensive than ever

The Schöck range of free online and downloadable software is now one of the most comprehensive available in supporting the design process across areas such as product selection; thermal analysis; structural analysis; and BIM services. The full extent of these digital services can be explored first hand at Ecobuild in March, on Schöck stand C 41. Where visitors will be able to receive personalised training from Schöck engineers.

One of the most recent developments in the calculation software is a design program for the Isokorb types KS and QS in steel-to-concrete connectivity. This complements the existing calculation software for designing concrete-to-concrete and steel-to-steel connections. A notable benefit of the program is the ability to calculate natural frequency, which allows a check on the serviceability of the balcony system with regard to vibration. It calculates the natural frequency of thermally broken steel balconies, using



geometric and material variables.

There is an online thermal bridging calculator too, which enables planners to produce substantiated thermal bridge analysis in just a few simple steps. Based on the construction details, the new thermal bridge calculator computes two-dimensional heat flows, isothermals, temperature factors, surface

temperatures and psi (ψ) values. The results provide architects, structural engineers and building physicists with the information needed to produce a detailed thermal bridge analysis to identify compliance with part L regulations.

BIM libraries

Special object libraries and plug-ins have been developed for users of the leading BIM systems. At present, these libraries are available for the standard Schöck Isokorb product portfolio (concrete-to-concrete, steel-to-concrete and steel-to-steel) for Allplan and ArchiCAD CAD systems, with Revit and Tekla to follow. Two levels of detail are available in the plug-in: one for preliminary planning and one for execution planning.

You are of course invited to experience all the latest software and product developments on Schöck Stand C41 at Ecobuild in March.

01865 290 890 www.schoeck.co.uk

ECOBUILD STAND NO C41



LAMILUX CI SYSTEM GLASS ARCHITECTURE PR60_{ENERGYSAVE}



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Accessible design for commercial washrooms

ELABIE will be showcasing its new range of grab bars and shower seats at Ecobuild. Adapted washrooms tend to be functional and have an institutional feel. To challenge this, DELABIE has launched the Be-Line® range, with esign at its core, for public places such as offices, restaurants, hotels and museums. However, there is no compromise on functionality since the Be-Line® range combines aesthetics with ergonomics, providing user safety for accessible washrooms in the commercial sector.

Well-being

The clean lines of DELABIE's Be-Line® grab bars and shower seats provide a new aesthetic, replacing the institutional aspect of adapted washrooms. Concealed fixings and an ergonomic design heighten the impression of comfort and provide a necessary level of discretion. The facilities can be used by any



user, at any life stage and regardless of their level of independence, promoting a sense of well-being. This makes the shared use of sanitary spaces more agreeable for everyone.

Safe

Public facilities accommodate all users, so DELABIE tests its grab bars and seats to over 200kg, guaranteeing stability and safety for all. Made from extruded and injection—moulded aluminium, the Be-line® range is durable and can withstand intensive use. The

smooth, homogenous surface is easy to clean and the lack of joints minimises niches where bacteria proliferate.

Ergonomic

Featuring a flat front face, Be-line® grab bars fit the hand's natural curve perfectly. The ergonomic design prevents the hand from rotating, providing a comfortable and secure grip. This, combined with a minimal gap between the wall and the bar, reduces the risk of fracture since the hand cannot slip between the wall and the bar.

The Be-line® range of grab bars and seats is available in two finishes, white aluminium or metallised anthracite, providing a good visual contrast, yet coordinating well with any style of washroom.

Visit DELABIE at Ecobuild on stand B122 to find out more.

01491 824449 www.delabie.co.uk

ECOBUILD STAND NO B122





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ECOBUILD STAND NO C41

DOORS, WINDOWS & CONSERVATORIES SUPPLEMENT

adf



Skyline's bespoke solution for prestige Spitalfields offices



Skyline Fascia, Soffits and Copings – part of Alumasc Water Management Solutions (AWMS) – has supplied bespoke window and door surrounds to create a striking new entrance and frontage for a major office refurbishment in Spitalfields, London. The formerly dark entrance of the 1980s building has been transformed with new surrounds that allow more natural light to filter through while blending flawlessly with the updated interior styling. A unique exterior finish ensures the design is sympathetic to the historic location of the building. A cut-out of the building's address in the side panels was an integral part of the design. This enabled a light to be installed behind the cut-outs for a contemporary effect. Skyline's new surrounds were colour matched to other exterior features of the building for a seamless look. The painted finish is BBA approved for total assurance in durability, longevity and weather resistance. A high degree of accuracy was required to ensure the joints of the surrounds aligned to the window mullions, as well as bespoke manufacturing to achieve webbed carcassing that supports the fascia and surrounds.

01536 383 810 www.alumascskyline.co.uk

New Crittall steel window meets tough specification



Latest advancements in high performance Crittall steel window design have been successfully combined with traditional aesthetics to meet the exacting standards demanded by one of the United States' major Ivy League universities. Both client and architect called for neo-Gothic style fenestration to blend with the design of classrooms, student accommodation, offices, libraries and dining halls for the new college buildings. A variety of bespoke window shapes was required, some with curved tops, others with Gothic-style heads and trefoils, but all had to satisfy tough thermal and acoustic requirements. Crittall turned to its Berkeley range which was modified with the addition of triple glazing comprising an exterior true leaded glass panel separated via a vented cavity to an interior insulating glass unit. An exterior putty-effect sloping glazing detail was used to replicate old putty-glazed windows, but using an interior glazing bead for ease of servicing. The slim sightlines that are a hallmark of Crittall steel windows perfectly matched the characteristic appearance of traditional, single pane, putty glazed fenestration.

01376 530800 www.crittall-windows.co.uk



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Portfolio doors are more than just 'doors'.





WWW.ARCHITECTSDATAFILE.CO.UK ADF FEBRUARY 2018



Door closer enhances high-rise fire safety



British designed and manufactured, Powermatic controlled, concealed door closers are gaining increasing popularity in both public and private housing sectors for use on fire doors in high-rise flats and apartments. The door closers carry the CE mark and have been independently tested and proved to meet the requirements for one hour and half-hour fire doors under BS EN 1634-1. They also offer operating efficiencies that facilitate compliance with accessibility requirements.

Available in standard and Free Swing models, Powermatic door closers deliver additional benefits for flats and apartments thanks to the fact that they are totally concealed when the door is closed. This helps retain the aesthetics of interiors and assure a less institutionalised, more homely feel.

Concealment also reduces the risk of the door closer being damaged through vandalism, misuse or tampering, which could render a fire door useless. It also means less maintenance call-outs and continued fire safety. For more information please contact **Samuel Heath** by calling or visit their website.

0121 766 4200 www.concealeddoorclosers.com

West Port doors last 40 per cent longer in rigorous FD30 testing



FD30 fire doors from bespoke timber experts West Port have been proven to withstand fires for 40 per cent longer than the legal requirement. To achieve an FD30 rating, products have to hold flames at bay for 30 minutes. Subjected to rigorous testing by both Cambridge Fire Research and BRE, West Port's door managed to withstand temperatures in excess of 800 degrees Celsius for 42 minutes 7 seconds, or 40 pr cent longer. Ken Mercer, West Port Commercial Sales Director commented: "After the terrible tragedy at Grenfell, fire safety is being talked about more than it has for decades. It's clear that for far too long, attitudes towards fire safety have been too lax, and it's the responsibility of everyone in the construction industry to help ensure nothing like this happens again. At West Port, we treat fire safety with the utmost seriousness – and our fire-rated products are among the most robust and reliable in the industry. We treat 30 minutes as a bare minimum, not a target – and because of that, we're delighted, but not surprised, to see our product perform so well in testing."

01900 814225 www.west-port.co.uk



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If you want large panes of glass with minimal sight lines then look no further. The advanced technology of this aluminium sliding door system has enabled us to reduce the sight lines to an astonishing minimum – while still maintaining the high security, severe weather rating and reliability we are known for.

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SLIDING DOORS
GLASS BALUSTRADES
SLIDE & TURN SYSTEMS
MOVEABLE WALLS
WINDOW & ROOF SYSTEMS











Architectural Bronze Casement's new website features an extensive new gallery section showcasing a wide variety of bronze window, door, screen and secondary glazing projects. Galleries are easy to navigate and arranged by product type and property style from successfully completed projects. The new website also features a comprehensive technical guide which provides details on all of the different systems in their portfolio of products.



Holdsworth Windows is a family run business specialising in the manufacture of bespoke steel windows, leaded lights and fittings. Established for over 50 years Holdsworth Windows have designed, fabricated and installed windows for a wide range of contemporary, listed and historic buildings. Holdsworth Windows offer their customers the complete window fitting service. Conservation is an integral part of their work.



MDM Glass Ltd is an experienced team of glazers offering a wide range of bespoke glass products: rooflights, walk on glass, shower screens, balustrades, splash backs, glass doors and windows. The company supplies and fits bespoke glass products upon your request. It has years of experience working with construction & building companies and private customers. Its Glass and Glazing experts are ready to give you an advice for any of your projects.



The Sash Window Workshop has collaborated with multiple homeowners, architects, contractors and developers to manufacture high quality, bespoke timber windows and doors for period properties. New joinery is manufactured from their workshops in Berkshire using the latest computer operated machinery alongside their craftsmen's eye for detail. The materials used enable them to manufacture to the highest specifications.





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A design lover's ideal coffee table book, Door Couture from Urban Front combines stunning photography and inspirational door design, with key facts for those with a deeper interest in architecture. From door handles to material and colour to placement, everything is explored. Door Couture has been approved as Continuing Professional Development by RIBA and is sure to appeal to those with a taste for the aesthetics of modern door design.



IDSystems has launched theEDGE2.0, an innovative ultra-slim sliding door with sightlines of just 20mm. Based on theEDGE, the awardwinning system, the highly engineered new doors feature incredibly thin intermediate sightlines and are designed to not just look good, but to perform perfectly time after time, year after year, maintaining the high security, severe weather rating and product reliability the Norwich based business is known for.



Specialist door manufacturer. Ahmarra has launched a new collection of doors designed specifically for the luxury hotel sector. All doors are made individually to order, allowing complete design freedom and ensuring that every project is truly unique. Ahmarra's high performance timber doorsets and glazed screens are particularly suited to areas of high footfall such as hotels, that often have specific fire, acoustic and safety requirements.



SIMONSWERK TECTUS is a complete solution and extensive range, iconic design and precise engineered functionality. TECTUS hinges allow for three dimensional adjustments to obtain perfect door alignment, contain maintenance free bearings and present a flush fitting clean line design. Created for safety, with minimum pivot gaps to prevent finger injury, these hinges are available in an unrivalled range of high quality surface finishes and size options.





Barrierslide a host of sliding options



Barrier Components has added a number of new kits to the Barrierslide range that not only save space, but reflect the latest look in interior styling. Ideal for both residential and commercial applications, the Barrierslide STRAP, IVAN 2.0 and CRYSTAL are systems that will work with solid, framed and frameless glass doors and feature exposed tracks and hanging hinges which are right on trend. They all come complete

with fixings stops, guides and both soft close and open devices.

03300 373 334

Modus system aids Gothic revival



Built in 1875, the Barnes Hospital was closed in 1999 and left to deteriorate, now it is receiving a new lease of life as developer Henley Homes creates the Barnes Village around it. The challenge for Henley and its construction division Reis Construct was to find windows for the new-build houses that would complement the character of

the hospital's originals. Reis elected to substitute these for Eurocell's Modus flush sash casement window in Anthracite Grey. The Modus casement, reversible and tilt and turn windows were among the first to achieve the 'A++' band in England and Wales.

0800 988 3049 www.eurocell.co.uk

New design edition lift-and-slide door



Schueco UK, has just introduced the ASS 70.HI DE, a new, even more versatile version of the top-of-the-range, lift-and-slide door that Schueco originally introduced into the UK in 2010. This new Schueco system retains the basic profile depth of 70mm but offers an ultra-slimline

configuration with central meeting stiles that measure just 48mm. The result is that the fully glazed doors deliver the clearest possible views with minimal visual interruptions, whilst still maintaining the maximum door height of 3m.

01908 282111 www.schueco.co.uk

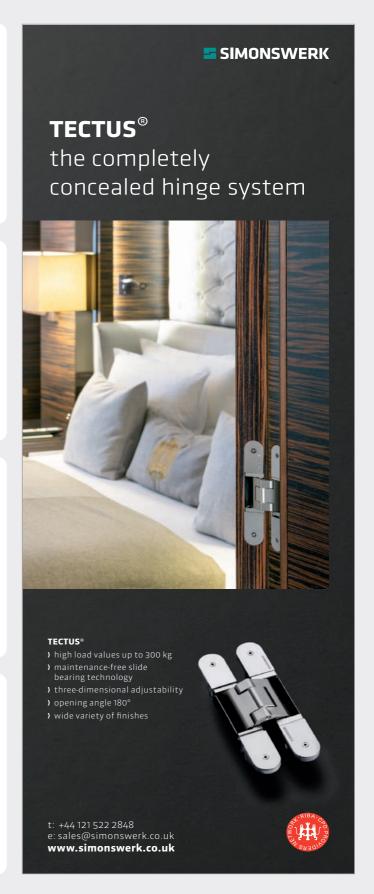
Architects Datafile website



The Architects Datafile (ADF) website is an online provider of past and present products and news items for the architect or specifier. architectsdatafile.co.uk is a one-stop source for all the latest press releases providing any visitor with access to information about products and services that they may require. From the website, you can find links to digital

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www.architectsdatafile.co.uk



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Senior specified for new Leeds private rental scheme



Aluminium windows and doors from a leading fenestration manufacturer Senior Architectural Systems have been chosen for the new X1 Aire private rented scheme in Leeds, West Yorkshire. Located in the heart of Leeds city centre, the glazing package for the new residential scheme has been delivered by Aire Valley Architectural Aluminium Ltd for main contractor Bardsley Construction. Senior's thermally broken SPW600e aluminium fixed light windows were specified to offer extra security and improved thermal efficiency, with Senior's robust SPW501 aluminium doors, which have been designed to meet the requirements of PAS 24 and the Secured By Design standard, installed to the ground floor communal entrance. The acoustic performance of Senior's SPW600e aluminium windows has been enhanced through the use of special acoustic double glazing which helps to reduce the traffic noise from the nearby main road. Maximising the flow of natural light, Senior's aluminium windows also provide residents with attractive views of the River Aire and complement the brickwork facade of the building.

www.seniorarchitectural.co.uk

Efficient access for high speed rail students



A state-of-the-art training facility, the National College for High Speed Rail in Birmingham has just opened its impressive TORMAX automatic revolving entrance doors, welcoming in the first cohort of high speed rail apprentices and learners. Powered by the technologically advanced TORMAX 5251 operator, the four-leaf door reflects the cutting-edge design of this important new learning resource. Ensuring clear and easy access for all staff, learners and visitors, the entrance also incorporates two automatic swing doors driven by TORMAX 1201 operators, situated to either side of the revolving door. The green credentials of the entrance system were an important factor in the specification process. Contributing to low energy consumption targets, the revolving door can be activated in two modes, either starting rotation when slight pressure is applied to a door-leaf, or when the door activators are triggered. In addition to being used in full-power application, the 1201 operators driving the swing doors have the option of power-assisted manual door opening mode and low-energy mode without safety features.

sales@tormax.co.uk

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2018 Schueco Excellence Awards



According to Schueco UK, innovations and improvements being introduced for the 2018 competition mean that there are now even more reasons for entering the Schueco Excellence

Awards for Design and Innovation. These annual awards aim to celebrate the very best in building design and construction in the UK and Ireland. The only stipulations for an eligible entry are that a project submitted should be completed or handed over before the end of March 2018 and should utilise at least one Schueco system and involve a UK or Irish-based Schueco Partner fabricator. For more visit: www.architecturetoday.co.uk/schuecoexcellenceawards2018

01908 282111 www.schueco.co.uk

TECTUS Hinges – Concealed Perfection



SIMONSWERK TECTUS – a complete solution and extensive range, multi award winning iconic design. TECTUS hinges allow for three dimensional adjustments to obtain perfect door alignment, contain maintenance free bearings and present a flush fitting clean line design. Created for safety, with minimum pivot gaps to

prevent finger injury, these hinges are available in an unrivalled range of high quality surface finishes and size options. The TECTUS A8 versions accommodate door fascias and claddings up to 8mm.

01215 222848 www.simonswerk.co.uk

Eurocell opens up new vistas



Eurocell is extending its range of bi-fold doors with the launch of StudioGlideTM, a breakthrough aluminium bi-fold system that promises minimal sightlines, maximum performance and unlimited flexibility. Developed for both residential and commercial projects, StudioGlide will fit any aperture because it is scaleable to frame heights of up to 2.5m and widths of up to 6.5m. Individual sashes of 1.2m wide can be assembled

in multiple configurations of up to seven sashes with the choice of inward or outward opening doors.

0800 988 3049 www.eurocell.co.uk

New Internal Swing Door Operator



The new slimline A951 from FAAC, controls door opening and closing with a silent and smooth operation. An unobtrusive yet powerful swing door operator specifically designed for internal, circulation, disabled or general hands-free operation. It allows users to easily open doors via a button, sensor or remote control. Thanks to the PUSH&GO function, just a touch completely

opens the door, or it can be set to manual open with powered closing. At just 7cm tall the swing door operator can be installed on either the lintel or transom, giving flexibility to make installation quick and easy.

01256 318100 www.faac.co.uk





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Garador's insulated sectional garage doors beat the cold

The Great British Winter with temperatures well below freezing can have real implications for homes and garages. Heating bills tend to go up, but savings that could be made from heat loss from the garage are often overlooked. Garador's premium sectional garage doors help to reduce the amount of heat lost through the garage, with U-Values down to 1.30 W/m²K. They are also a great choice for garages where the contents need to be kept warm and dry or the garage is used as a home office or gym. Each door is constructed from sections which are 42mm thick and filled with highly insulating PU foam, as well as rubber seals around the door. They have also been designed to look great, in a choice of 4 designs and over 18 colours.

01935 443709 www.garador.co.uk

Walk on structural glass floors & rooflights



Structural Glass Design is a specialist in manufacturing walk on glass floor panels and drive on glass floors and rooflights, and processing silicone sealed, structural double and triple glazed units. The company

design, manufacture and install walk on glass floors/rooflights and drive on glass floors/rooflights wherever your location. For more information please contact the company.

enquiries@structural-glass.com

Steel windows add warehouse appeal



Recognised with an award for excellence in design and construction, Carlton Works is a development of six one-bedroom apartments and a two-bedroom penthouse; these are created within a building built in 1916 when it was known as the New Theatre. To add to the high-end warehouse feel of the development, led by Open Architecture, 28 steel windows and doors of varying sizes were

designed and manufactured by **Steel Window Association** member Govette Windows. Full details of the complete product range, list of members and much more can be found on the Association's website.

www.steel-window-association.co.uk





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Eclisse Pocket Door Systems are chosen by builders and architects worldwide

e believe the success of the Eclisse Pocket Door System is a result of a combination of factors including the comprehensively tested, robust easy-to-install frames, our 15 year guarantee, our dedicated customer service staff and the wide variety of Eclisse pocket door products we have on offer.

Unlike other pocket door systems, the Eclisse quick-click frame is quick and easy to assemble. It comprises of a pocket, track and metal door post that combine together to create a frame that is installed into wood or metal studwork as a complete unit. This means the installer does not have to worry about the alignment of components installed separately.

The fact the Eclisse Pocket Door System assembles into a frame with a robust pocket is key because it replaces studwork in the wall. Many aspects of the Eclisse pocket door systems have been comprehensively tested, and the strength of the pocket is no



exception. The pocket of the Eclisse frame is constructed from specially formed galvanised steel sections and it has been independently dynamic impact tested to European standard UNI EN 1629.

Surprisingly many pocket door kits on



sale in the market today do not come with a proper 'pocket', but simply consist of just a track and some fixings, or a track and two thin wooden vertical slats to represent the pocket, so it is important to be clear what you are getting when you make your purchasing decision.

For more information about the Eclisse range of products visit the webiste or call our friendly customer service team.

0845 4811977 www.eclisse.co.uk

FAKRO windows set new standard



Known for its innovation in roof window design, FAKRO has launched the INNOVIEW range of traditional windows and doors. Manufactured using meranti, oak or pine and powder-coated aluminium, designers can order bespoke shapes and sizes up to 12 metres in

width and 2.8 metres in height. With three types of aluminium profile in 250 matt or satin RAL colours and two timber profiles in six colours, triple or quadruple glazing provides U-values between 0.68 and 0.85 W/m²K. INNOVIEW windows and doors utilise multi-point locking hardware to EN 1627:2011 and anti-burglary Class RC1.

01283 554755 www.fakro.co.uk

Allgood extends product offering



Allgood has extended its ANSI product offering, ensuring its high quality door hardware products are manufactured in accordance with the stringent American national standards. Offering architects and designers a fully coordinated ironmongery and door hardware solution, the new ANSI product range provides a durable and high quality solution for commercial, hospitality, healthcare, infrastruc-

ture and leisure applications. The Allgood ANSI range incorporates the necessary UL Listed products for fire rated assemblies, ensuring that the products are resistant to the spread of fire and smoke.

0207 387 9951 www.allgood.co.uk

Investing in the right riser doorsets



Ashley Burberry, managing director at Aspex, shares his top tips when investing in doorsets and risers: When choosing doorsets, it's important to ensure they have been tested to the latest fire safety standards and manufactured under a UKAS accredited certification scheme such a IFCC and labelled accordingly. Choosing fire rated doorsets that are certified in this way will minimise the risk of damage during an outbreak of fire. Over the years, doorsets have been developed to be more aesthetically appealing in order to meet the demands of the market and in line with what specifiers and architects need for a finished project. At Aspex, it understands that every company may require something that will match their environment. Its Novista Riser Doorsets have been created so that the door frame is concealed within the wall with no architrave required to create a minimalistic look. Traditional steel riser doorsets are often prefabricated, resulting in a very heavy product, which is difficult to handle onsite and install. Aspex has developed its Novista Riser range which offers a simple on-site assembly process, resulting in a lightweight item that is easy to handle but still quick and easy to install.

0116 278 3506 www.aspex-uk.co.uk/novista-riser

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Offsite manufactured volumetric building projects from conception to handover

orking either as Principal Contractor or specialist sub-contractor, Caledonian Modular deliver offsite manufactured volumetric building projects, from conception through to handover, from the single largest facility in the UK. Key sectors we provide permanent buildings solutions in include:

- Education
- Residential
- Commercial
- Hotel sectors

... as well as our long standing relationships with both the Mod & MoJ.

Our partnerships include global design & consultancy firm Arcadis, developing new modular integrated housing solutions, in the support of increasing housing delivery within the UK, and with HLM Architects, being an approved supplier on the £50m Education Funding Agency (EFA) Framework to design and build for schools, academies, and other educational facilities.



Modular benefits in the real world

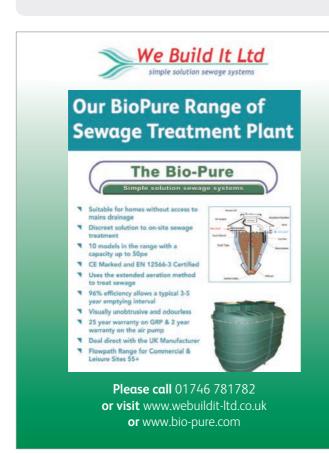
With only 63 per cent of traditional sitebased construction projects being delivered on time – and only 49 per cent are delivered to budget - there are many significant benefits to offsite manufacture.

A clear comparison

Our unique approach to offsite manufacture and construction is built on collaboration and exceptional people; underpinned by our corporate values and commitment to outstanding customer service, with a raft of certification and accreditations, including ISO 14001 and 9001, OHAS 18001, and projects rated BREEAM excellent, were also recognised as a Considerable Constructor.

Continually driving value and efficiency through Smart Construction, we promote the intelligent use of Building Information Modelling (BIM), Design for Manufacture and Assembly (DfMA), and employ Lean manufacturing techniques within the factory to eliminate waste.

01636 821645 www.caledonianmodular.com







Cooperation is an important step in expanding the wood construction sector – including urban construction, where the greatest potential is

Meeting the offsite challenge

ADF looks at how one firm is embracing the supply chain challenge of timber housebuilding as the industry transitions to modular offsite construction

The construction industry is undergoing a major transition, with construction moving from building sites to offsite manufacturing. Industrially standardised products increase the quality and efficiency of construction. The turnaround time on building sites is shortened and the amount of errors reduced, and there is hardly any wastage of materials.

The potential of wood in this process is undeniable and today, offsite timber construction has major aspirations. Prefabricated wood elements enable fast, efficient and environmentally sound design without reducing quality. Studies on the benefits of such a lean approach are compelling. In a 2011 study of companies that have applied lean construction methods (McGraw Hill Construction, 'Prefabrication and Modularization – Increasing Productivity in the Construction Industry'), 84 per cent reported higher quality in construction and 80 per cent experienced greater customer satisfaction.

The report also highlighted that almost 70 per cent of projects that used prefabricated elements had shorter schedules and 65 per cent had reduced construction cost. Timber prefab construction also reduces other inconveniences such as the constant unloading of building materials, as well as the amount of on-site waste and the need to transport it.

Innovation in the housebuilding sector is much needed to achieve the Government target of 300,000 homes a year required in the UK, and offsite timber construction could be central to this. One firm which is championing timber's contribution is Metsä Wood, whose Kerto LVL (Laminated Veneer Lumber), is used to help homes constructed offsite to be turned around in a matter of weeks. Modern engineered wood products can be used for a variety of

housing projects ranging from terraced and detached homes through to apartment blocks several stories high.

The company has been making substantial efforts to find permanent partners for industrial wood construction, with the aim being to develop a project delivery network based around Kerto LVL products.

"We are aiming to build a wood-based ecosystem in Europe – a network of specialists, each of whom focuses on their core business," says Juha Kasslin, vice president, central Europe and sales development.

He adds: "Metsä Wood's core business will be industrial-scale LVL manufacturing, and our partner network will carry out a lot of product development based on our products. This arrangement will benefit the growth of the entire ecosystem.

Cooperation is an important step in expanding the wood construction sector – including urban construction, where the greatest potential is".

Metsä Wood has long-term supply and cooperation agreements with LVL element builders, such as Finnish operators Lapwall and Sisco. Metsä Wood supplies fixedlength Kerto LVL products from which its partners manufacture roof, floor and wall elements, as well as complete modules.

Sisco's rapid growth is "proof that Kerto LVL can be used for practically all construction purposes," says the firm. It points to the increasing sales in prefabricated bathroom and kitchen modules and apartment modules as indications that wooden apartment buildings are the shape of things to come. This is shown by Sisco's ambitious goal to increase the share of tall wooden buildings in Finland from 3-4 percent to 10 percent within the next five years.

"A suitable base for each building project can be assembled from modules, and the architect can then create an impressive entity by adding attractive elements, colours, balconies, cornices, and so on," says Lauri Halminen, CEO at Sisco. "A structural design approach enables reasonably-priced production, and industrial manufacturing ensures that the projects are carried out efficiently."

Sisco's counterpart Lapwall also believes in the logic and assembly chain approach that has been adopted from the automobile industry: in industrial wood construction, the work steps are clustered together and prepared in advance. All that remains to be done on the building site is to connect the parts.

"If each building is a prototype, then things become impossible," says Jarmo Pekkarinen, CEO at Lapwall. "Our product development is based on the concept of having a range of models, with each building being assembled from prefabricated parts. This allows optimal cost, quality and speed. Thanks to this approach, we can promise developers and investors that a building project can be completed in as little as three weeks."

Europe offers "plentiful partnership opportunities for element construction",

Metsä Wood says. In France, Germany and Belgium, for example, Kerto LVL Ripa floor and roof elements are prepared by partner companies.

Here in the UK, however, according to the company, we seem to be slow on the uptake, however it adds that the "tide is slowly turning with a greater need to provide affordable, adaptable and ecological homes".

Despite signs of progress, Metsä Wood concludes that "more needs to be done to help housebuilders, developers and planners better realise the potential that modern wood products can offer". This is one reason it recently launched its Open Source Wood project (www.opensourcewood.com), where architects, designers and engineers are invited to join forces to innovate and share information relating to construction based on wood elements.

The firm hopes that such initiatives will help to highlight some of the innovative projects taking place across the globe and, through collaboration, bring timber construction methods to the forefront of new housebuilding in the UK.





Projects from conception to handover



Caledonian has the capability to deliver projects from conception through to handover from the single largest offsite manufacturing facility in the UK. Recent achievements include a partnership deal with Arcadis to develop new modular housing

design, and being appointed as an approved supplier on the EFA Framework. Projects include the largest hotel-style development in Europe for 25 years, Hinkley key worker accommodation, 1,496 ensuite bedrooms at two key locations. Also, ACS Cobham International School, Ashville College and Kidbrooke Village, London.

www.caledonianmodular.com

Offsite education projects handed over



The McAvoy Group handed over the £20m Lynch Hill Enterprise Academy in Slough 17 weeks ahead of programme, allowing the school to benefit from earlier occupation. The project is one of the UK's largest ever modular

schools. It demonstrates a number of new innovations which contributed to its early completion and reduced the programme by around six months compared to site-based construction. Gillian Coffey, Executive Head Teacher at the Lynch Hill Enterprise Academy said, "The facilities are terrific and the children are enjoying a fantastic new learning environment and the benefits of cutting edge design."

info@mcavoygroup.com

Protect Membranes used in one of the UK's best places to live



Protect Membrane's TF200 breather membrane has been used throughout an innovative mixed development scheme at Little Kelham in Sheffield, to ensure water resistance, vapour permeability and minimise the risk of condensation in the wall structure. Built from a bespoke Structural Insulated Panel System by offsite construction specialist Innovaré for their client, the scheme comprised of energy efficient homes, apartment blocks, shops and cafes on the site of a former steelworks. Designed to be in line with Passivhaus guidelines, the development blended old with new, restoring elements of Sheffield's industrial heritage. Dubbed one of the 20 Hippest Places in the UK, the development was the winner of the Residential category for the RICS Yorkshire & Humber Awards. Craig Lee, Supply Chain Manager at Innovaré commented, "Aside from outstanding thermal performance, the key elements to this project were the speed and predictability offered through the offsite route of construction." Protect will be exhibiting at ecobuild (6-8 March 2018) in the MPBA Pavilion within the Offsite District on stand H60. For more details please email Protect or call quoting 'Little Kelham'.

0161 905 5700 info@protectmembranes.com

WWW.ARCHITECTSDATAFILE.CO.UK

Historic Chocolate Works preserved with Sika Sarnafil

Bight years after being put on the 'At Risk' register by English Heritage, the landmark Terry's Chocolate Factory has a new lease of life, following extensive refurbishment. The 1926, Grade II listed building now starts a new chapter as a care village owned by Springfield Healthcare.

Once home to famous brands such as Chocolate Orange, the factory and offices were closed in 2005 and fell into disrepair over the subsequent decade. Eventually the building, which is part of a 27-acre site, was acquired by Henry Boot Developments for conversion. The renovations included a full roof refurbishment that was undertaken by Hull-based roofing contractor L.A. Hall using a Sika Sarnafil single ply system.

One of the key focuses of the work was to preserve and retain the art deco features of the building while increasing its lifespan. A vital element of the repairs was the work on the existing flat and slate roof areas that were in a very poor state, and a roof for the new additional floor of the building.

L.A. Hall suggested using a Sika Sarnafil system for the flat roof areas, as it matched the client's requirements for longevity and sustainability, and is the company's preferred membrane choice. The project's conservation officer was initially concerned that the system would be too shiny, but Sika Sarnafil provided a number of samples, and after discussions, the specification was welcomed by all parties.

The project was complex due to the multiple roof areas and detailing. To begin, the existing slating on the central north light roof slopes, which were remaining in place as part of the new scheme, were re-covered using a fully adhered Sika Sarnafil system including G410-EL membrane in Lead Grey.

In addition to the existing roof areas, an extra floor to the building was constructed around the north lights. Its steep slated mansard-type external elevation included approximately 60 dormer windows,



which required zinc on all the vertical faces and Sarnafil on the tops. The flat roof area of the extension was then also covered in the Sarnafil system, along with 140m of parapet guttering detailing, and a new roof terrace area.

The L.A. Hall team overcame various challenges, including working on sloped areas, tight time scales and challenging winter weather, but thanks to the skill of the fitters and the flexibility of the Sarnafil system, the project was finished to an impeccable standard and on time.

01707 394444 gbr.sarnafil.sika.com

Big Foot systems keeps things secure



Big Foot Systems has supplied Custom Frame non-penetrative systems to support and secure rooftop plant at a new, state-of-the-art leisure centre. The £11.3 million leisure centre replaced the previous 1970s sports centre and swimming pool. Along with new

swimming pools, the centre features a climbing wall, fitness suite, sports hall, dance studios, spinning studio, sauna and steam room. Big Foot's Technical Team worked closely with the mechanical contractors, to ensure the right solution was supplied to support AHUs on an exposed rooftop which experiences high, swirling wind speeds.

01323 844355 www.bigfootsupport.com

CUPA PIZARRAS provides excellence



Natural slate remains a popular choice with architects due to the long-term durability of the material as well as the range and quality of finishes possible. CUPA R12 EXCELLENCE, one of the best selling products in the range,

provides architects with a number of aesthetic and practical benefits. The CUPA 12 is a dark grey slate with thin laminations and superior homogeneity of colour to create a uniform appearance across the entire roof. CUPA PIZARRAS employs a highly rigorous grading process to ensure the slates in the R EXCELLENCE Selection meet the highest standards in terms of consistent thickness and flat surface.

01312 253111 www.cupapizarras.com/uk

Natural slate fulfils traditional charm



Crammond Select Homes has recently renovated the Powis Mains Farm in the small village of Blairlogie, one of Scotland's first conservation villages. CUPA PIZARRAS slate was chosen as it met the specific requirements of the heritage site surrounding durability and

appearance. Bobby Halliday, the Architect commented: "Heavy 3 was ideal for this project due to its close resemblance to the traditional highland slate from Ballachulish that is no longer produced, making the CUPA PIZARRAS slate now the primary choice for traditional Scottish slate roofing, whether it be for new or refurbished roofs."

01312 253 111 www.cupapizarras.com/uk

Metsec provides design and walling services



Nine Elms Point is a former Sainsbury's site in London's Vauxhall district. Specified on the project, voestalpine Metsec plc's steel framing systems (SFS) infill walling was selected for both its flexibility in terms of sizing, and the additional design services that

Metsec is able to provide to projects. The design services were utilised in the early stages of the project to provide the structural calculations and system requirements for the SFS walling in order to adequately support the various external wall cladding systems that Stanmore would be implementing.

0121 601 6000 www.metsec.com

Anyone for Half a Million Mugs of Tea?

aunched in 2017, the Newton Membrane Recycling Service is the first recycling scheme in UK water-proofing. Now, with the release of Newton's first annual recycling report we can see just how much HDPE plastic was recycled in 2017, and how Newton saved enough energy to make 519,690 mugs of tea...

Why Recycle Waterproofing Membrane?

One of the primary forms of structural waterproofing, cavity drainage membranes are manufactured from HDPE and designed to last for the lifetime of a building. However



each year the waterproofing industry sends hundreds of tonnes of off-cuts to landfill, as there was previously no service available for collecting and recycling the material.

With the environmental credentials of many new projects coming under increased scrutiny by assessments such as BREEAM, the ability for any company to trace their waste is therefore a valuable asset when undergoing sustainability assessments.

How Does It Work?

Available through Newton's Specialist Contractors, the service collects the waste membrane on delivery backloads from across the UK and processes it at Newton's Kent headquarters. From Newton, it is recycled by a third-party and manufactured into new construction products, therefore achieving a fully 'closed-loop' process.

Most important however, is that the service is transparent and traceable, making it possible to see where the waste is generated and produce reports for participating companies on how much they are recycling and how much energy they are saving.

What Have Been The Results?

As a result of Newton's efforts to ensure the sustainability of their operations, in 2017 a total of 3.255 tonnes of membrane was collected for recycling. There are also several other measurements that we can convert this into to make it a bit more quantifiable:

- Newton have avoided the release of 3.74 tonnes of Carbon Dioxide equivalent (CO2e) into the atmosphere
- This is the equivalent of burning 1,702 litres (1.24 metric tonnes) of petrol
- These are both equal to generating 14,616 Kilowatt Hours (kWh) of energy
- Enough energy to make 519,690 cups of tea!

Finally, it is also hoped that this innovative new service will motivate other construction suppliers to consider their own processes and how they too can improve their environmental credentials.

01732 806 963 www.newtonwaterproofing.co.uk

De-bug timber with Safeguard



Safeguard Europe has product a superb guide on the problem of larval infestation of timber, how to accurately identify the cause and how to treat it. Safeguard's Woodworm Identification and Treatment volume is packed with detailed colour photography on the likely species to be encounter in Britain – and through all their life stages, from larvae to adult. In addition to allowing the reader to identify

woodworm, the guide covers how to check whether a woodworm infestation is still active or has died out, and how to treat minor infestations of common species effectively, and for the long term.

01403 210 204 www.safguardeurope.com

School set to benefit from Frametite



The impressive construction of a £45 million all-through school on the Greenwich Peninsula in London is set to benefit from first-grade airtightness performance thanks to the installation of the Frametite air barrier system from the A. Proctor Group. Sub-contractor

Bellwood Interiors required a high-quality air tightness membrane and chose the Frametite System as an external air barrier and alternative to a traditional standard breather membrane with EDPM for the steel detailing. The Frametite System comprises Frametite, a low-resistance vapour permeable air barrier for walls plus Wraptite Tape.

0 1250 872261 www.proctorgroup.com



Aggregate Industries becomes trusted supplier to retirement living specialist



Construction materials supplier Aggregate Industries, has become a trusted supplier to retirement living specialist McCarthy & Stone, with its precast concrete products division Charcon Construction Solutions and its Building Products team, both completing a number of projects and orders this year alone. McCarthy & Stone is one the UK's leading retirement housebuilders. The company specialises in apartments for older people, offering independent living with a range of on-site support services. Charcon Construction Solutions has – to date – supplied and installed products at 24 of its developments in 2017, with many more in the pipeline to commence both this year and next. With a framework agreement in place, and working on projects across all of McCarthy & Stone's eight English regions – demonstrating a truly nationwide service. Typically, Charcon Construction Solution supplies and installs 150mm pre-stressed concrete Hollowcore flooring and precast concrete stairs to Ground and Upper floors in each McCarthy & Stone building. Hollowcore flooring units can offer a flexible and economic answer to flooring challenges, due to the spans and widths of units available.

01291 318630 www.aggregate.com

Mighton launches full colour range



Mighton Products has boosted its link with paint specialist Anker Stuy with the launch of a new dedicated paint and stain catalogue, that has resulted from their successful partnership. The range, now branded Mighton Ankerstuy, has more than trebled in size with not only an extended palette of its existing Exterior

colours but also the new addition of Interior and Specialist coatings. As well as details and colour charts of all the ranges and finish options, the 48-page catalogue now has much more technical and usage information, plus more details on the key products in the range.

01223 497097 www.mightonproducts.com

Bracknell regeneration project



T6 International Ltd and Architextural, part of William Smith Group 1832, have teamed up to provide a magnificent refurbishment to Bracknell's 'The Lexicon' shopping centre. Avery Dennison's Facade Film was chosen due to its cost-effective, excellent 'spray paint' like finish, along with the film being able to colour

match to a specific RAL, to meet brand guidelines. Anthony Rose, director of T6 International Ltd, said: "We were extremely pleased with the stunning effects we achieved using Avery Dennison Facade Film, the atrium looked like new once the project had finished!"

www.architextural.co.uk



A bronze garden

ow Jones Architects' recently completed Garden Museum Phase 2 uses Nordic Bronze clad interventions to create a fresh yet gentle identity for a historic church and graveyard, differentiated from the neighbouring Lambeth Palace.

London's Garden Museum is housed in the deconsecrated grade II listed church of St Mary at Lambeth. Dow Jones Architects' first phase in 2008 involved a two-storey gallery inside the church, creating new galleries, an education room and storage, and consolidated the nave as an events space.

The competition-winning second phase extends the museum both within the existing building and out into the churchyard, creating a new public face. New garden pavilions provide education rooms for a range of learning and community activities, and a café. They are connected by a glazed cloister that frames a new Dan Pearson designed garden and are clad in Nordic Bronze copper alloy from Aurubis.

Interlocking Nordic Bronze shingles with concealed fixings are set out in a distinctive, plate-like pattern conceived as being reminiscent of the flaking bark of the surrounding plane trees. The shingles wrap tightly around the façade, meeting the windows and slim warm roof construction to form a crisp outline. Mechanical extract vents are integrated into the cladding with custom bronze cowls that protrude outwards.

The architects chose Nordic Bronze as "a lightweight material that weather from a bright copper colour to an even earthy chocolate brown. This colour will allow the building to sit quietly within the graveyard, allowing the garden and church the strongest presence".

Nordic Bronze is produced by Aurubis, part of the world's leading integrated copper group and largest copper recycler. Other copper alloys include Nordic Brass – now also available pre-weathered – and the innovative Nordic Royal, an alloy of copper with aluminium and zinc, giving it a rich golden through-colour and making it very stable.

The Aurubis architectural range also includes Nordic Standard 'mill finish' and Nordic Brown pre-oxidised copper, offering



lighter or darker shades of brown determined by the thickness of the oxide layer. Various Nordic Green, Nordic Blue and Nordic Turquoise factory-applied patinas have also been developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world. For more info email g.bell@aurubis.com.

01875 812 144 www.aurubis.com/finland/architectural

Award-winning design with Marley Eternit



Young people in Hampshire are benefitting from a brand new community hub combining award winning design with increased functionality. A highlight of the unique build is the seamless blend of roof and facade achieved through the specification of Thrutone Fibre Cement

Slate from Marley Eternit. Thrutone Fibre Cement Slate from Marley Eternit was specified; providing a smooth dark grey appearance to deliver a strong visual appeal, while its lightweight properties meant it was suitable for use on both the roof and facade.

01283 722588 www.marleyeternit.co.uk

Remmers repair Bawdsey Radar Station



Built in 1938 and protected by Concrete Blast Walls, Bawdsey Radar Station was the world's first operational radar station. The walls had decayed steadily since the building was vacated in 1991. Being a Heritage site, traditional concrete repair techniques were not allowed.

Working in partnership, Remmers and Concrete Renovations Ltd devised a way to repair the walls by using Remmers restoration materials. Remmers coloured mortars were used to repair and simulate the colour of the original concrete alongside Remmers migrating corrosion inhibitor and impregnation cream.

01293 594010 www.remmers.co.uk





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ARP Deliver Fascia and Soffit for Curved Roof

Birkett House Community Special School has been designed and built to cater for the needs of up to 200 students aged between five and 19.

Hoyes Roofing and Cladding, a specialist contractor based in Leicester won the roofing contract for a new build school in Leicestershire.

An existing customer of ARP, Hoyes Roofing and Cladding were already aware of the quality of the aluminium products and the service backup available, especially on extensive projects such as this.

The new school building design incorporated a large curved mono pitch roof,



bespoke fascia and soffit with double tiered hoppers. The design further included a butterfly roof and a considerable quantity of wall copings, along with downpipes and more hoppers.

Being a significant project, both Hoyes and ARP worked seamlessly together, with ARP ensuring the products were manufactured, coated and delivered in agreed phases - every two to three weeks another delivery was made to site ensuring smooth progression of the project.

The designs for the Trueline fascia, soffit, wall copings, hoppers and double tiered hoppers were supplied to ARP, our in-house CAD team interpreted the drawings and converted the bespoke designs into CAM drawings for production purposes. All the products were manufactured at our tailor-made manufacturing facility in Leicester and Polyester Powder Coated (PPC) in Slate Grey - RAL 7015 Matt.

Jon Hoyes, Hoyes Roofing & Cladding "The biggest challenge for us was the design of the curved roof and getting the facet right. ARP worked with our schedule to provide the



materials we needed a couple of days prior to installation, keeping the project on track."

Aluminium is the perfect material for architectural elements in designer projects like Birkett House as it is a sustainable, durable and a naturally occurring material. Easily recycled, aluminium not only enhances the building, but also protects it from the elements. Aluminium is non-corrosive and non-combustible, with an expected life span of over 30 years, with little maintenance, it will provide protection to the building for many years to come.

0116 298 2570 www.arp-ltd.com



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Redland tiles top off development



The award-winning Crossway development in Widnes, Merseyside employs the revolutionary Innofix Clip developed by Redland and two of its tiles to achieve a weatherproof envelope in the shortest time possible. Developed for the entire range of Redland's concrete interlocking tiles, the

Innofix Clip needs no tools at all and meets the increased fixing requirements set out in BS 5534. The only tile clip that needs no hammer, Innofix is the fastest and easiest fixing on the market and up to 40 per cent quicker than using traditional nailed clips.

01293 666700 www.redland.co.uk

Westminster Slate works in Wisbech



Carpenter Steve Jackson chose Westminster Slate, the latest tile from Redland, when he built his own four-bedroomed house on a plot at Christchurch in Wisbech, Cambridgeshire. A large format interlocking clay tile, the Westminster Slate has a hidden cut-back interlock

and a finely tapered leading edge that makes it appear exceptionally slim. It's raised nail holes and custom-engineered head enables it to be installed on roofs with pitches as low as 17.5°.

01293 666700 www.redland.co.uk

Promat delivers fire and acoustic solution



A multi-million pound project to create an exclusive residential development in a Cheshire conservation area, which has given a new lease of life to a beautiful unused Victorian church, has demonstrated how Promat UK's high performance, fire-resistant

glass range represents the assured choice for developers. The 45mm glazing units provided by Promat UK were required to achieve strict acoustic and fire protection standards, in numerous shapes consistent with the Gothic style windows. The solution was a sealed unit specification incorporating EI60 fire rated insulated glass units.

0800 588 4444 www.promat-glass.co.uk

Innovative glazing system at waterfront



Designing and installing a VS-1 system with the sufficient structural strength capable of withstanding a significant wave load enabled GLASSOLUTIONS to secure a significant contract as part of the £80.11 million construc-

tion of the new V&A Museum of Design Dundee. Streamlined aesthetics were achieved using the VS-1 installation by installing a bespoke mullion with thicker side walls, allowing the fixings to be countersunk. This vertical-only structure means that the glass wall visually 'floats', presenting an entirely glazed surface that lets in as much daylight as possible to enhance the building's visual appeal.

01904 610077 www.glassolutions.co.uk

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Catherine houses Portsmouth students

Aluminium systems manufacturer, Metal Technology, supplied a suite of facade, window and door solutions for Catherine House in Portsmouth, which provides housing for 1000 students. The project involved the refurbishment of Zurich House on Stanhope Road and the construction of an adjoining building. It features Metal Technology System 17 curtain walling in capped and silicone pointed variants, System 5-35Hi+ windows, System 5-20D Hi+ doors externally and System 10 doors internally. Metal Technology systems perform seamlessly together to achieve the desired look and performance standards. They offer complete design flexibility with superior structural, thermal, acoustic, safety and security performance.

028 9448 7777 www.metaltechnology.com

Online store for Heritage Castings



British Spirals & Castings, is pleased to announce the launch of its new online store, offering thousands of premium quality cast iron railing components and gratings. The slick, easily-navigable store allows users to filter items by size, design or period to

quickly find the products they need. Each listing includes product dimensions and large images, making it easy to find a matching replacement for existing designs within properties. Once customers have found the items they need, they can be simply added and submitted for a quote via the online quote form.

01663 750 716 www.britishsc.co.uk/shop

A true reflection of Neaco quality



Reflections in Chesterton, by HC Moss (Builders) Ltd, won Best Small Development in the Cambridge News Property Awards to become the latest in a long list of award-winning projects to feature Neaco products. Paul Ursell of HC Moss (Builders) Ltd explained the benefits of using Neaco's

structural glass: "We incorporated frameless bi-fold doors and needed to match this with frameless glass balustrade affording a seamless outlook over the river. Every detail needed to be very high-end so we specified a stainless steel top rail to cap the structural glass."

sales@neaco.co.uk

Lindapter's extended product range is now CE Approved



Lindapter has gained CE Mark approvals for its latest range of steel connection systems, further demonstrating its commitment to high quality manufacturing and transparency of product performance. In addition to the longstanding CE Mark approvals for Lindapter's Girder Clamp, Hollo-Bolt and LindiBolt, the following products are now CE Marked: High Slip Resistant Clamps (Types AF and AAF); Adjustable Clamps (Types CF, D2, F9, LR, LS, & Flush Clamp); and Floor Fixings (Grate-Fast, FloorFast & Type 1055). This latest announcement follows multiple CE accreditations achieved by Lindapter since 2011 and offers Engineers an extensive range of options for designing CE approved steelwork connections to Eurocode 3. Almost every conceivable steel connection can be quickly accomplished without on-site drilling or welding by using Lindapter's clamping systems. CE Marking provides specifiers and contractors with the assurance that the product will perform as declared in the published Declaration of Performance (DoP).

01274 521 444 www.lindapter.com/about/CE

Premium solution for community housing



Residents of two community housing blocks in Ashton-under-Lyne are enjoying the benefits of a more energy efficient home, thanks to a majo insulation retrofit featuring the premium performance of Kingspan Kooltherm K5 External Wall Board. Kingspan Kooltherm K5 External Wall Board achieves outstanding thermal

conductivities as low as 0.020 W/m·K. It is designed to be installed behind lightweight polymer modified renders, such as the dry dash render applied to the flat blocks.

01544 387 384 www.kingspaninsulation.co.uk

Technal system showcased on factory



Advanced glazing systems from the range of Technal have been employed by Dortech Architectural Systems Ltd for the construction of the new Materials Innovation Factory located within the University of Liverpool's 'Knowledge Quarter'. Fairhursts Design Group,

have combined the use of the different Technal systems to create the main facades. Fairhursts' designs have created a central, four-storey atrium above which Dortech Architectural Systems installed a continuous run of MX52 sloped roof glazing, together with FXi 65 actuated opening vents.

01924 232323 www.technal.com

Vent-Axia provides efficient ventilation



Vent-Axia, is delighted to have supplied specialist Ventilation Company D.R Ventilation with ventilation for an exemplar of sustainable development in Cambridge. The Virido development offers future living with a collection of 208 unique apartments. The

homes are architecturally pleasing, triple-glazed and clad in brick and dark timber with Vent-Axia's Lo-Carbon Sentinel Kinetic BH and Lo-Carbon Sentinel Kinetic Plus Mechanical Ventilation with Heat Recovery units providing energy efficient and effective ventilation to these sustainable homes.

0844 856 0590 www.vent-axia.com

Clean lined and modern: Christon 750



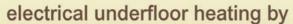
The Christon 750 inset stove from Mendip is ideal for modern living with its full glass door design and sleek, contemporary look. The generously sized insulating chamber is big enough for 60cm logs while the steel construction of the box within a box design

provides excellent airflow, enabling convection heat to be distributed evenly and effectively within the room. Rated A for energy efficiency, this woodburning stove has a heat output of 8.7kW and is 78.4 per cent efficient. With a two-point locking door system for added stability and peace of mind, it's priced from £1,370.

01934 750500 www.mendipstoves.co.uk

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WWW.ARCHITECTSDATAFILE.CO.UK

Consort Claudgen launches SL single-zone controllers



Consort Claudgen has introduced three new wireless controllers which can be connected to one or multiple SL heaters to form an SL heating system. All controllers have comfort and setback temperature settings. The SLPB and SLVT have a control button with status indicators and a four-stage run-back timer where a heating period remains active until the run-back timer expires. There is a choice of three time periods available in the run-back timer mode: 5, 15 or 30 minutes. When the button is pressed four times, this takes the run-back time period to 20, 60 or 120 minutes. The SLVT offers temperature control and a temperature display screen. It enables room occupiers to set their comfort temperature, however, can't increase it beyond the maximum comfort temperature set by the building owners or operators. The screen shows the actual room temperature, except briefly when either of the temperature control buttons are pressed, the new target temperature is then temporarily displayed. The SLTI features a programmable seven-day timer and thermostat with three heating periods per day.

01646 692172 www.consortepl.com

Framework Directive for energy-related products



In October 2009, the European Commission published a framework Directive for energy-related products, thereby extending the scope of application to products that use, generate, transfer and measure energy. The energy-related products directive has already been implemented for washing machines, TVs, kettles, gas boilers and a number of other products and the new regulations will be applying to warm air heaters from January 2018. To enable the heaters to be placed on the market they must be fully compliant with the regulation. Appliances in the supply chain after the implementation date, can still be sold but they must be covered by an order, written or verbal. Orders would need placing for the non-condensing ranges of warm air heaters, the Hi-Spec and Economaire, by the end of December 2017 to comply with the new regulation. Providing these orders are in place, Johnson & Starley are able to sell these two models of heaters up until 26th September 2018. The company is so confident in its products that it is extending the guarantee period for the Economaire and Hi-Spec heaters from 1 to 3 years.

01604 762881 www.johnsonandstarley.co.uk

Hitachi launches new Sigma VRF



Johnson Controls-Hitachi Air Conditioning Europe is launching an innovative range of modular VRF units for 2018 under the Hitachi brand. Called Set Free Sigma, the outdoor units for 2-pipe Heat Pump and 3-pipe Heat Recovery will be produced in the company's European manufacturing facility. Using R410A refrigerant, the full range benefits

from a new high efficiency DC inverter compressor for precise control by 0.1Hz increments which, combined with a new fan design, bellmouth fan housing and sigma-shape heat exchanger, achieves improved efficiency even at low or partial load in cooling operation.

020 3901 0913 www.hitachi-hvac.com

Architects Datafile website



The Architects Datafile (ADF) website is an online provider of past and present products and news items for the architect or specifier, architectsdatafile.co.uk is a one-stop source for all the latest press releases providing any visitor with access to information about products and services that they may require. From the website, you can find links to digital

issues that have live links to advertisers' sites, as well as daily email alerts to keep you as informed as possible.

www.architectsdatafile.co.uk

Hammersley House Refurbishment



AET Flexible Space, underfloor air conditioning specialists have just completed another West End project in London at Hammersley House, 5-8 Warwick Street. The system specification at Hammersley House is a CAM-V direct expansion (DX) system, with

underfloor supply air and return air at high level. The high level return air option is often preferred as it can offer greater flexibility for positioning Fantiles for future and speculative tenants as there is no air segregation baffle dividing the underfloor plenum. A total of seven CAM-V downflow units provide conditioned air to the four floors.

01342 310400 www.flexiblespace.com

Accident Repair Centre sees the light

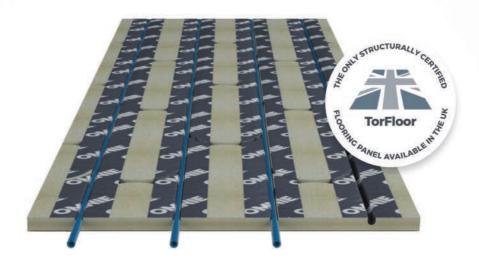


Basingstoke Accident Repair Centre invested in a new lighting system by Hilclare – a leading Manchester-based commercial lighting specialist that forms part of the newly-formed

Pilot Group Infrastructure. Hilclare's 226W LED Varas were installed in the Accident Repair Centre, along with 95W Autolux Bodyshop luminaires by IDES. Utilising the very latest in LED technology, the new system provides an excellent quality of light and boasts efficiency that is well above the regulatory requirements, which is around 50 per cent more efficient than fluorescent tube equivalents.

www.hilclare.com

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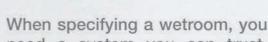


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The power of showers

Level-access showering and wet-room style bathrooms are on-trend, but the reality of creating a true wet room can be costly, so Simon Boocock of CR Laurence looks at some alternative options

The aesthetic appeal of a wet-room style bathroom cannot be denied; opening up the space to make it look and feel much bigger and making access simple for all, wet rooms are the perfect option for high-end developments such as hotels, spas and even residential projects.

Figures from AMA Research suggest that wet rooms represent the fastest growing sector of the UK bathroom market, and it is growing at around 5-6 per cent year on year. "Housebuilders are increasingly adding wet rooms to new build private homes to 'add value' and attract buyers," according to Keith Taylor, director of AMA Research. "Baths continue to be commonly specified in the main bathroom, but the smaller second bathroom or en suite is now more likely to have a wet room installed, both for practical and aesthetic reasons."

Style at a cost

While the end results speak for themselves both visually and practically, the reality of installing a true wet room, in terms of the tanking and drainage that is essential, can be extremely costly and time consuming. Fortunately, there are solutions that can be used to create the wet room look without this expense, and without compromising on the overall results in any way.

Thanks to the latest technological innovations, modern frameless enclosures are available in a vast range of configurations that can be worked to the room's advantage. From a steam room with floor to ceiling all-glass panels fixed by uchannels and connected with hinges and clamps, to a simple sliding door system or fixed glass panel supported by a stabilisation bar, the options are endless, enabling a bespoke shower area to be created in practically any space.

Bespoke solutions

From a design perspective, frameless shower enclosures are easy to customise,



which makes this option a particularly good solution when dealing with awkward shapes and tight spaces. Conventional shower solutions such as 'standard' shower enclosures simply won't work in bathrooms that are anything but 'standard' in shape. In bathrooms situated under the eaves in a loft or including alcoves, a standard hinged shower enclosure of around 800 mm x 800



mm or thereabouts is not going to fit. Even pre-cut frameless screens could still result in problems with fitting a shower into a specific space.

What is needed in such situations is a bespoke solution that fits seamlessly into the bathroom regardless of its shape or size. Shower areas can be designed to fit under sloping ceilings or even in an alcove, for an almost bespoke finish. With the glass cut to size and modern hinges and brackets available in different shapes and sizes and with adjustable options, the shower area can be designed to specifically fit the space, unlike with an off-the-shelf solution that limits design possibilities.

Minimal solutions

Helping to create a minimal, high-end and bespoke shower area, glass clamps provide a clean-looking alternative to u-channels. Helping to maintain the frameless appearance of a contemporary shower enclosure, these can be specified with square cornered and bevelled edge hinges that can be exactly matched, for a sleek finish.

An alternative ideal which works particu-

There are solutions that can be used to create the wet room look without this expense, and without compromising on the overall results

larly well in the smaller bathroom is to opt for a sliding shower door. This solution keeps architectural hardware to an absolute minimum for a neat finish, with only the header support bar and track holder being visible. Where support bars and brackets are on show, ensuring they fit with the overall style of the bathroom is key, and again, less is more.

Such solutions make installing wet rooms and open-plan shower areas far easier, and results in a neat, uncluttered and bespoke finish that help high-end designs stand out from the crowd.

Simon Boocock is managing director of CR Laurence



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Aiming for a bigger splash



Cistermiser Keraflo, the intelligent washroom controls and water efficiency specialist, has unveiled a new brand corporate identity as it gears up for growth with an extended and enhanced product portfolio. The bold new logo styling reflects a dynamic approach towards the creation of innovative services and solutions to help manage the earth's

most valuable resource, a change that is captured in the company's new strapline 'Our World is Water'. It follows significant investment in product development that includes new 'information rich' technologies to help customers better optimise their water management.

0118 969 1611 www.cistermiser.co.uk

Aiding hygiene control with Matrix M



A new height adjustable wash basin with enhanced features that assist hygiene control has been launched by **Pressalit Care**. Known as the Matrix M, Pressalit Care has developed new integrated power buttons for raising and lowering the basin, and to aid all important hygiene

control has incorporated all plumbing into a discreet, concealed unit. The Matrix M also features Pressalit Care's highly regarded grab handles at the front of the basin. The concealed plumbing aids hygiene control; the smooth curved lines of the bowl make cleaning easy; and integrated handrails, as well as providing valuable support.

0844 8806950 www.pressalit.com

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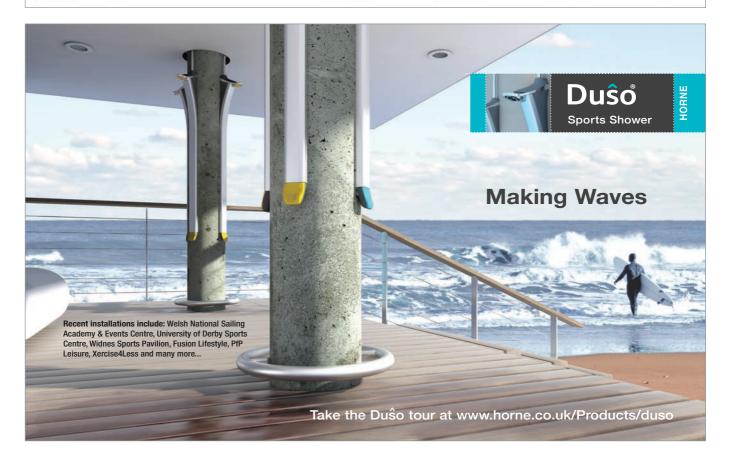
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technical@wedi.co.uk www.wedi.co.uk wediUK







Schlüter Specification Insight: Minimising build-up in the Manor

Chlüter-Systems used its specialist technical knowledge and a number of key product solutions to minimise floor build-up and guarantee complete waterproofing provision in the refurbishment of one of Ireland's most magnificent country houses.

Project Overview

Set in 840 acres of grounds, Adare Manor has been the subject of an 18-month-long renovation—its most extensive in 25 years. 40 new bedrooms have been added to this 19th century neo-gothic masterpiece as well as a host of new facilities; including a swimming pool, boardroom, cinema, spa and 350-capacity ballroom.

Company Involvement

Stone was extensively specified as part of the project. Schlüter-Systems was initially engaged to provide a waterproofing solution for Adare Manor, but was eventually able to assist on a greater scale.

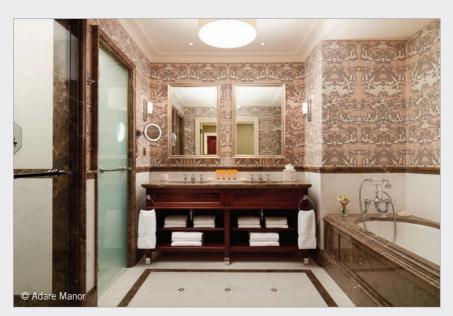
Insight

AREA: Bedrooms and Bathrooms (Floors)

ACTION: Minimising height for uncoupling, underfloor heating and waterproofing

Through use of multi-functional products, Schlüter was able to put forward a singlesource solution that reduced build-up from ten layers to six and saved 19mm of height,





as well as eliminating the need for smoothing compound. The floor build-up was approved by lead architect, ReardonSmith, and main contractor, John Paul Construction.

Underfloor heating, uncoupling and waterproofing – four layers to one

Underfloor heating, uncoupling and waterproofing provision was simplified from four layers to one, using the electric underfloor heating system, Schlüter®-DITRA-HEAT-E.

Schlüter®-DITRA-HEAT matting is only 5.5mm thick and was laid onto a 1mm bed of flexible adhesive, giving build-up of just 6.5mm. As opposed to needing a layer of encapsulation above it, the system features studded matting and the cable clips securely within it, avoiding the need for tape or adhesive and enabling even spacing.

Acoustic matting – a slimline variant

Schlüter assisted by exchanging the proposed matting of 10mm thickness for Schlüter®-DITRA-SOUND matting of only 3.5mm thickness, saving 65 per cent of build-up for acoustic reduction measures. This matting offered the same dB rating and could be installed using a standard polymer modified adhesive.

AREA: Bathrooms/Golf Clubhouse, including Spa (Walls)

ACTION: Providing guaranteed waterproofing

For areas of high moisture, waterproofing is an essential consideration and it takes on an even greater significance when it comes to preserving historic buildings—Adare Manor has stood for 185 years and the intent of the restoration is to see it through at least the same again.

A secure waterproofing system

Schlüter's complete waterproofing system for these areas consisted of Schlüter®-KERDI-200 waterproofing membrane, KERDI-KEBA sealing band and KERDI-COLL-L adhesive. These products work together to form a CE Marked waterproof solution that will stand the test of time.

As well as the above solutions, Schlüter-Systems also provided its original uncoupling mat, Schlüter®-DITRA 25, for use under the flooring of Adare Manor's new ballroom and its golf clubhouse and spa. The company is proud to have been specified on such a scale for this prestigious project.

01530 813396 www.schluter.co.uk

Altro helps transform dining room



Altro AquariusTM has been used in a lifechanging home adaptation to create a wetroom for Devon-based teenager Mya Bolt, who has poor mobility. Turning a dining room into a wet-room wasn't an easy task. Altro Aquarius was ideal as it is a specialist safety flooring

developed for lasting performance in shoes or barefoot. Achieving Class B to DIN 51097 for barefoot use, plus PTV ≥50 (Slider 96), it provides optimum lifetime sustained slip resistance in wet and dry environments. Mya's mother, Claire, is delighted to report that her dream of giving her daughter dignity and independence has come true.

01462 480480 www.altro.co.uk

Lo-Seal Trap Granted Seal of Approval



CCL Wetrooms are delighted to announce that their new Lo-Seal Trap has received a British Board of Agrément certificate following a comprehensive product testing programme. Designed as the central element of the Linear Screed Drain and the Modular Wet-Floor

System, the new Lo-Seal waterless trap at a cutting edge depth of only 45mm, has been developed specifically for use in wetroom construction projects with screed depths of below 70mm. Made from tough Acrylonitrile Butadiene Styrene, the trap has an improved design which contains a self-sealing mechanism, which locks into position.

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

A full house (of toilets)...



Storyhouse in Chester is a £37million facility, combining library, two theatres, a cinema, restaurant and bars. One of the core aims has been to create a venue for community and diversity, reaching audiences who wouldn't otherwise even consider visiting the

theatre. And to help ensure people who wouldn't otherwise visit can do so, the building has been designed to be fully accessible on all levels – through to the toilets! Standard accessible toilets are available on every floor, with the ground floor having one of Closomat's state-of-the-art Changing Places toilet facilities.

0161 969 1199 www.clos-o-mat.com

Offsite solutions expands range



Offsite Solutions, one of the UK's leading bathroom pod manufacturer, has expanded its range of GRP composite pods with the development of a hybrid design to offer an enhanced level of finish for higher specification student accommodation, hotels, and

apartments for market sale or build-to-rent. GRP pods can now be fabricated to incorporate ceramic tiles with options for completely tiled walls, inset feature walls or bands of tiles. These hybrid bathroom pods allow even more aesthetic flexibility for GRP units – with all the time and quality benefits of offsite construction.

info@offsitesolutions.com

Facilities enable health & wellbeing



University of Birmingham's £55m sports club, Sport & Fitness, has, from the outset, been developed as a world-class venue for everyone, from elite athletes to people with disabilities, injuries or other specific access requirements. University of Birmingham Sport & Fitness features two,

fully-accessible hygiene rooms, each giving plenty of space for a wheelchair user and up to two carers, and equipped, by Closomat on behalf of Interserve, with a Palma Vita wash & dry toilet, ceiling track hoist and adult-sized height adjustable changing bench.

0161 969 1199 www.clos-o-mat.com

Kaldewei's Puro Set Wide bath



Puro Set Wide is the latest steel enamel bath from Kaldewei, perfect for bathing and showering with a centrally-positioned waste outlet and extra wide rim, giving maximum freedom for positioning taps and fittings. With an ergonomic backrest and extra steep walls on three sides,

Puro Set Wide offers reclining comfort and optimum legroom while bathing and freedom of movement and excellent underfoot safety while showering.

01480 498 053 www.kaldewei.co.uk

Forbo freshens its Tessera Collection



With the transition from geometric effects towards softer more organic motifs and textures within the workplace, Forbo Flooring Systems has refreshed its Tessera Contour carpet tile collection by adding four different and fresh tones to the palette.

When it comes to designing a workplace environment, the theme of nature prevails as specifiers look for ways to create more comfortable interiors that mirror the outside landscape. As such, Forbo's new Tessera Contour collection, which consists of 13 naturally inspired colourways and boasts a soft striated design.

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

Contemporary ultra-matt wood flooring



Kährs has launched two new ultra-matt wood flooring collections, Lux and Lumen. Recently winning Gold for 'Best Flooring' at the 2017 House Beautiful Awards, Kährs' Lux collection includes nine one-strip plank format designs in an array of natural colours, which are mirrored in Lumen's three-strip designs.

The new surface treatment applied to the designs is non reflective; enhancing the colour and beauty of real wood, while giving a silky, yet strong shield against wear and tear.

023 9245 3045 www.kahrs.com

Hunter Douglas publishes its Guide



Hunter Douglas, the architectural products manufacturer, has published its latest comprehensive guide to ceilings and walls, covering its entire metal, wood and felt ranges. The hardback, 394-page Commercial Ceilings & Walls Product Guide 2018/2019 is aimed at architects, designers and speci-

fiers and provides technical data, colour finishes, material characteristics, applications and acoustic performance data in easy-to-read form. Colourful photographs of the systems in situ also enable them to see exactly how they look on schemes across the world.

01604 648229 www.hunterdouglas.co.uk

Frameless glass balustrade



Fivestars is a specialist staircase and balustrade company who offer "Frameless or Stainless Steel and glass balustrade, unique high quality German manufactured staircases, our own bespoke wall mounted tread stairs and more traditional stairs but with our glass balustrade for a modern twist! Please

contact us for a budget quotation that we would follow up with a site survey to confirm all costs. Our service includes a Autocad drawing for your approval and friendly helpful advice.

www.fivestars.ltd.uk

Gerflor to the rescue with DIY SOS



Being able to change someone's life or circumstances for the better is a mission that TV'S Nick Knowles and his DIY SOS crew' have been on since 1999. In a special Children in Need episode which aired on BBC1 last year,

the DIY SOS went to Swansea for a 'Million Pound Build Special' to help a local charity rebuild their support centre. The project would need a raft of high quality flooring as part of the rebuild. To achieve this international flooring specialist **Gerflor** came to the rescue by donating 119m² of stunning products that included their Taralay Impression Comfort and Taralay Uni Comfort vinyl flooring ranges.

01926 622600 www.gerflor.co.uk

Polyflor launches Polysafe Quattro PUR



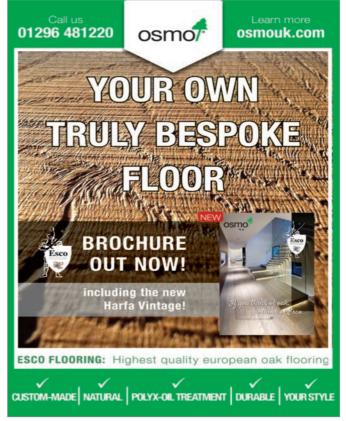
Polyflor, has just announced the launch of their new Polysafe Quattro collection. This innovative safety flooring range offers barefoot and shod sustainable wet slip resistance with a stud-free finish for enhanced comfort underfoot. Polysafe Quattro has been specifically designed to provide a high degree of slip resistance in continually wet

areas within the healthcare, residential care, housing and leisure sectors. Polysafe Quattro is available in a carefully developed colour palette of 12 shades, that will complement any interior design scheme in a commercial or residential setting.

0161 767 1111 www.polyflor.com



www.fivestars.ltd.uk



Polysafe Quattro





















RENOLIT extends offer with four muted greys

RENOLIT Cramlington Ltd offers 19 RENOLIT ALKOREN Suedette Matt colours with the addition of four new distinctly different greys to their stock range of 3D thermoformable films.

- Clay Grey Suedette Matt
- Onyx Grey Suedette Matt
- Pearl Grey Suedette Matt
- White Grey Suedette Matt

Within the grey colour zone the four new colours include both light and dark shades to complement the existing range of commercially attractive colours combined with a desirable high performing superior matt surface finish. All 19 Suedette Matt



colours have matching Egger MFC boards.

RENOLIT ALKOREN Clay Grey Suedette Matt

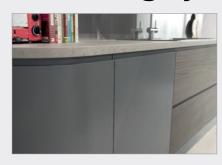
Clay Grey Suedette Matt creates a sophisticated muted tone which works well with White Craft Oak 1. MFC Co-ordination: EGGER U201 ST9 Pebble Grey.

RENOLIT ALKOREN Onyx Grey Suedette Matt

Onyx Grey Suedette Matt is a versatile colour which creates a sultry atmosphere with its darker character. Add rich tones with Dried Date Suedette Matt, add urban chic with Chicago Concrete 1 or add a modern design element and depth with Fleetwood Lava. MFC Co-ordination: EGGER U960 ST9 Onyx Grey.

RENOLIT ALKOREN Pearl Grey Suedette Matt

Pearl Grey Suedette Matt is a modern light grey. For a trendy fresh look combine with Peak Yellow Supermatt or mix with Silver Liberty Elm 19 to add an imaginative



style statement. MFC Co-ordination: EGGER U763 ST9 Pearl Grey.

RENOLIT ALKOREN White Grey Suedette Matt

White Grey Suedette Matt is a light only just grey. To create a fresh and bright interior mix with Fern, and combine with the latest EIR (emboss in register) designs such as ENDgrain Delight or ENDgrain White. MFC Co-ordination: EGGER U775 ST9 White Grey.

01670 718222 www.renolit.com/design



Yeoman Shield help keep interiors looking good at Care Centre

Hulwell Community Resource Centre operated by Sunderland Care and Support, offers a wide range of day opportunities to support people with learning disabilities.

Due to the busy footfall in the Resource Centre and with sporting and social activities taking place as well within the building, the walls, (including those in the hydrotherapy pool room), and doors were starting to look worn with damage occurring from everyday footfall and the movement of equipment.

To help improve the appearance of the damaged doors, Yeoman Shield's directly employed fixing operatives fitted door protection to a selection of doors throughout the centre. This included fire rated door edge protectors to leading edges, protection panels at half height to door faces and PVCu clad hardwood glazing bead units.

The fire rated door protection products not only improved the look of the doors but will ensure protection from damage well into the



future, helping to preserve the working condition of the all-important fire doors.

The hydrotherapy pool room received Yeoman Shield 2mm thick Falmouthex protection panels complete with a top edge trim to reduce water ingress.

"We are very pleased with the quality of work and items installed by Yeoman Shield and the products have certainly given a lift to the décor whilst helping to reduce future maintenance costs." David Thompson



To find out more about Yeoman Shield wall & door protection systems, please call or visit the website.

0113 279 5854 www.yeomanshield.com



Ahead in the cloud: access control evolves

John Whitby at dormakaba looks at the development of cloud-based access control systems, and the important benefits they can have for customers





The rapid pace of technological innovation in recent years has resulted in an increase in the capability and performance of access control products available on the market.

Hybrid solutions comprising mechanical and electronic products, offering an integrated approach to access control, are becoming increasingly popular. With convenience at their core, their popularity is down to ease of installation, increased security and efficient delivery.

Mobile access solutions

Mobile access technology has allowed greater flexibility for access control systems. Traditional methods of personal identification such as fobs and keycards now work alongside new, alternative devices. For example, smartphones can now feature stand-alone digital locking technology.

People are more likely to have their smartphone with them at all times, but unlikely to loan it to someone else – contributing to a robust security environment. Mobile phones can also incorporate additional security functions such as a PIN or passcode. Newer models also allow users to choose biometric verification, such as fingerprint or facial recognition. In addition, by removing the need to replace lost and stolen cards or fobs, these systems can be more cost effective in the long-term.

In the cloud

One criticism often aimed at traditional access systems is the difficulty of installation and its compatibility within a building's existing IT system. This process can often be time consuming, costly and inconvenient to the customer.

Access systems that incorporate cloud-based technology require little or no interaction with existing IT systems. For example, no dedicated software or server is required to be held on site. Business-critical

When specifying access control systems it is crucial to consider the life cycle costs

solutions including HR and payroll are already reaping the benefits.

Cloud-based access control systems are also ideal for commercial properties that require zone-based security. Their flexibility allows for tailored access to be established for different persons or groups for specific areas of the building. The movements of users can be recorded for audit, traceability and potential compliance purposes.

As businesses evolve and personnel change, systems allow access privileges to flex, so ensuring that only authorised individuals can access the building.

Some systems also incorporate functions that allow customers to deliver access rights to visitors remotely via their mobile devices. Security can be enhanced outside working hours by automatically requiring PIN entry alongside the key or badge.

There is also an increase in demand for integration between access control systems and third party mobile apps. Using standard development toolkits (SDK) this integration is far more effective and intuitive with cloud-based solutions.

A sound specification

When specifying access control systems it is crucial to consider the life cycle costs, as well as aiming to future-proof the installation, ensuring they are forward compatible. To achieve this, it is strongly advised to invest in a trustworthy supplier that is recognised for high quality and reliable products.

John Whitby is the technical lead at dormakaba

Residential Developer leads on safety with Kidde

Thakeham, one of the leading residential developers in the South East, ensures peace of mind for its customers with Kidde's Firex mains smoke and heat alarms, and Kidde carbon monoxide alarms, all interlinked for whole-home safety.

Thakeham Homes, part of the Thakeham Group, delivers a range of new homes including bungalows, apartments and houses in sought after locations throughout Surrey, Sussex and Hampshire. Thakeham is proud of its exceptional attention to detail, particularly when it comes to safety.

A Thakeham spokesperson commented: "We specify Kidde Firex smoke and heat alarms, alongside Kidde's 4MCO carbon monoxide alarms, for all new homes. These interlinked products provide an integrated alarm system, meeting all our technical requirements from a single manufacturer".

The latest generation of Firex smoke alarms offers Standard, Long Life and Rechargeable battery back-up versions of



each sensing technology, giving nine options in all. And it costs less than £1 per year to operate a Firex alarm – a major benefit for householders.

Kidde's Firex range can also be interconnected with the company's hard-wired carbon monoxide alarms using the unique 'Smart Interconnect' feature to create a comprehensive system for whole-home protection. Crucially, all the interconnected alarms have different, distinct

alarm sounder patterns for carbon monoxide and fire, supported by different display messages on the digital 4MDCO model. So, without the need for any further operation of the system – such as remote switches – Smart Interconnect automatically alerts occupants of the specific hazard that confronts them.

Kidde Safety Europe is one of the world's leading manufacturers of smoke, heat and carbon monoxide alarms. As a member of the United Technologies Corporation (UTC), Kidde sits alongside iconic brands such as Chubb fire and security systems, Carrier heating and air conditioning, Hamilton Sundstrand aerospace systems and industrial products, Otis elevators and escalators, Pratt & Whitney aircraft engines and UTC Power fuel cells.

For more information on Kidde product ranges, call or visit the website.

03337 722 227 www.kiddesafetyeurope.co.uk

Resiblock & Devon Council team up



Devon County Council has once again put its faith in **Resiblock** to deliver Paving Prevention as part of its Okehampton Block Paving Scheme. The £32,000 scheme was launched to repair paving areas in

Okehampton's Town Centre. With the same Yorkstone pavers being used at Okehampton, although this time in the form of a block whereas Bedford Square had utilised slabs, Resiblock again recommended the use of Resiblock '22' A.F for prevention against paver destabilisation, stain resistance and colour enhancement – providing maintenance free paving.

mail@resiblock.com

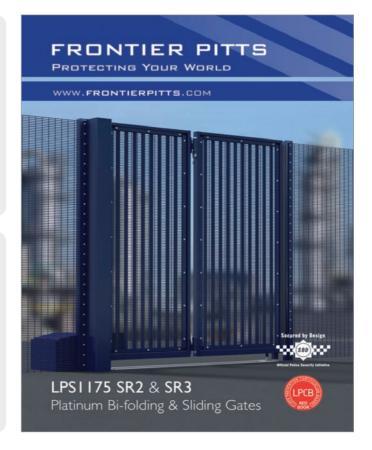
Tree pits using RootSpace and ArborFlow



Milton Keynes Councils' Master Plan was to redevelop and regenerate land in and around Bletchley Town Centre building on the opportunities created by the development of east-west rail and the work undertaken in the Bletchley Fixing the Links project a series

of works to up-grade the pedestrian and cyclist links between Bletchley Rail Station and the town centre. **GreenBlue Urban** were brought in to provide design support and technical input to the tree pit design. Eight linked tree pits using RootSpace and ArborFlow, will provide a combined storm water capacity of 19,511 litres.

www.greenblueurban.com



Growing up in public

The creation of green space is increasingly constrained in many projects by underground services, access routes, parking and traffic. In light of this issue, living walls and green screens are the win-win solution, says Mobilane's Paul Garlick



Innovative green systems are becoming the go-to design features in many UK urban construction and regeneration projects. Just look at the recently installed wall planter in Bracknell's town centre. The largest of its kind in the UK – all 800 square metres of it – not only drapes itself down the exterior envelope of a multistorey car park providing a captivating green aesthetic, but its interwoven mesh panels of plants absorb pollutants, improve air quality and act as an acoustic buffer to noise.

Every civil project is being driven to 'go green' to help lower air toxicity, improve its green credentials and ease its successful path through the planning process. Studies point to vegetated walls and vertical green installations as the most natural of potential solutions, and this includes an ongoing research study by Mobilane and Staffordshire University. Early results indicate that higher quality, denser green screens can remove up to 60 per cent of particulates.

Innovate, absorb, insulate

Providing a calming, air-cleansing and visually impactful backdrop in outdoor and indoor working environments, living walls play a significant role in reducing stress and connecting people back to nature. A living wall allows for design freedom and can be planted and replanted with foliage to suit seasonal or corporate themes, inside and out. On the building exterior, they can offer colour and interest as well as air improvement, insulation and soundproofing. On the building interior, the plant selection and their irrigation systems create areas of attractive natural beauty that can withstand the fluctuating temperatures and shade contrasts of offices and workspaces.

A greener workplace is a healthier, cleaner and more natural workplace. Biophilic design supports this and encourages the blend of nature and the built environment. Nature remains at the

core of our homes, workplaces and learning spheres.

These modular green cassette systems, equipped with the most modern automated technology, are a long-lasting, sustainable option to incorporate the highest level of planting, in the smallest of confines, with the lowest water usage.

A secure, sustainable boundary, instantly

Whilst a living wall is affixed to the building wall in a modular system, instant green screens are individual interlocking blocks of planted greenery, intertwined at the highest planting density onto a galvanised steel framework. Hand-wound ivy plants ensure the screen maximises its 'instant green reputation' and bio-degradable pots create the best growing environment for the healthiest establishment.

Playground transformation

Used extensively in a growing number of school projects to offer the greenest barrier alternative to fencing, the green screen provides the simplest of perimeters and is cost-effective and low-maintenance.

Biophilic design supports this and encourages the blend of nature and the built environment

Fully-grown when installed and continuing to thicken throughout its considerable lifespan, a green screen creates a secure, natural interface, working naturally as both a soundproofing barrier and an air quality enhancer.

Away with the bland, in with the grand

Minimum space, maximum impact – with the added benefits of better air quality, reduced noise and the knock-on health and well-being benefits that plants bring to indoor and outdoor landscapes. Vertical farming, vertical planting – call it what you will – the living wall and green screen phenomena is, quite literally, growing up.

Paul Garlick is the national business manager at Mobilane UK











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High capacity channel system drains main car park at Castlegate Business Park

he 107 space car park at the new Costa, KFC outlets, Castlegate Business Park, Dudley, West Midlands is drained with 44 metres of Hauraton's RECYFIX® MONOTEC high capacity channel drainage system. The Castlegate Business Park is already home to restaurants including Frankie and Benny's and Pizza Hut, as well as a Showcase Cinema and offices.

Hauraton Limited introduced the MONOTEC, system in January 2016. The Castlegate development joins numerous installations successfully completed in the United Kingdom.

The RECYFIX® MONOTEC channels installed in the car park's red block / asphalt surfaces have a nominal grating width of 100mm, an overall height of 380mm and a cross-section of 355.5cm². Having total water capacity of just over 1566 litres the channel runs drained an area of over 1233m².

All RECYFIX® MONOTEC one metre long channel component is of a sturdy



monolithic design where the HEELSAFE grating and the tongue and groove linking system are integral to the channel moulding. The whole unit is made of tough, virtually unbreakable polypropylene (PP) formulated to be very resistant to daily temperature fluctuations from frost conditions to strong sunlight, including the Ultra Violet (UV)

spectrum. PP is naturally resistant to de-icing salt. Complying with the requirements of EN 1433, the PP is given its UV resistance by adding just sufficient stabiliser so that the structural strength of the material is unaffected and a consistent appearance is maintained. The MONOTEC channels have a loading category of up to Class D400.

Peter Dicken, Hauraton's Project Manager for the Midlands comments; "With a maximum weight of 10.4kg the groundwork contractor, E.Terry, found the MONOTEC channels supplied easy to handle and install with no breakages reported during the installation process. Matching Trash Boxes and End Caps were also supplied. All Hauraton surface water drainage systems' comply with European Standards (hENs) and carries the CE mark".

For RECYFIX® MONOTEC product specifications visit Hauraton's website.

01582 501380 www.hauraton.co.uk



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Winning with permeable paving

n exemplary sustainable drainage (SuDS) scheme – designed by SuDS consultants and landscape architects Robert Bray Associates, and featuring innovative applications of concrete block permeable paving – has won the top prize at the 2017 Landscape Institute Awards.

Bridget Joyce Square in Australia Road, White City, London, is a SuDS park with community at its heart. Its design introduces the innovative concept of concrete block permeable paving as a thin overlay, replacing a tarmac road surface, on the original road base.

In this SuDS landscape, designed in association with McCloy Consulting, rainwater is removed straight from the surface without gulleys, then attenuated and treated within the paving before being released horizontally via stainless steel slots into adjacent, well-planted basins. Finally, flow control chambers on outlets from the basins protect the combined sewer. Thus, rainfall remains within the landscape until storms have passed and the sewer can deal with water again.



Consultation with local people and a realization of the potential for the site led to an integrated design that linked two disconnected spaces and created a social arena celebrating rainfall. Concrete block permeable paving was used to break the existing formal road alignment and introduce a 'piazza'. Local residents were keen to retain memories of a low wall in front of the school, used as a balance beam in their youth. From this a thematic 'Wiggly Wall' was born and became part of a 'ribbon' motif that united the linear spaces and symbolised the bringing together of the community.



The scheme won 'Winner of Winners' (the President's Award) as well as Winner of the 'Adding Value through Landscape' category at the 2017 Landscape Institute Awards, and also an ICE London Civil Engineering Award in 2016. The Landscape Institute judges recognised the design as: "An exemplary approach to partnership working in delivering solutions to so many problems in a way that can, and should be, replicated nationally". Most importantly, it has been enthusiastically welcomed by local residents.

0116 232 5170 www.paving.org.uk



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