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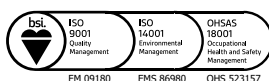


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welcome...

...to the August issue of ABC+D. This month we are featuring the winners of the 2016 Wienerberger Brick Awards which include House 1014 – a project which breaks down the barriers between the interior and exterior in Granollers, Spain (P. 04). We also take a look at Artelia's Command of the Oceans permanent display at The Historic Dockyard in Chatham (P. 08) and, on page 12, we get a sneak peak of Grant Associates' horticultural plans for Malasia's new urban township, Medini. Our Hot Topic feature follows up on May's round table discussion on the Close the Door campaign and calls on retailers to shut out pollution by specifying automatic entrance systems (P. 16). The benefits of BIM are pointed out by Steve Thompson on page 29; Ian Hewitt gives us an insight into how cutting edge design is transforming education (P. 44) and, on page 54, Advanced Electronics discusses the growing importance of false alarm management.

from all at ABC+D

+hot topic
Air pollution high on the agenda

+product focus
Specifying integrated access control solutions

+product focus
Cundall proves hearing is believing

+focus on CAD & BIM
Building better with BIM

+floors, walls & ceilings
Creating the sound of silence

+focus on education
Designing classrooms to inspire

+focus on health
A new model of mental healthcare at St Bernard's Hospital

+retail, commercial & industrial
ECOSTyle Holland takes top slot in global BREEAM awards

+fire, safety & security
The growing importance of false alarm management

16 *On the cover*


18 Inspired by textures found around the world throughout history, **Interface's** new World Woven collection, developed by David Oakey, features Skinny Planks and squares which are available in eight colour options. For more information, see page 36.



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DT2

celebrating excellence *in residential brick architecture*

Industry insider, Annette Forster, discusses this year's Wienerberger Brick Awards...

The building industry is evolving. As we embrace new technologies such as BIM and continue the drive towards sustainable construction, naturally there is an increasing level of scrutiny placed on our buildings and the components we use. Through these fundamental changes to the core dynamics of our sector, one timeless building material is enduring – we're talking about brick.

Clay brick has been at the heart of our organisation for over 200 years. It is a material that naturally delivers thermal insulation, durability and long-term value, but what people can often overlook is the potential brick offers from an aesthetic perspective. At Wienerberger, we passionately

believe in this potential, particularly in the context of residential design.

It is why, every two years, we host the Wienerberger Brick Awards, an international event recognising outstanding achievements in brick architecture. This year, we received a total of 600 entries from 55 countries. Narrowing these entries down to a shortlist of 50 was a challenging process – further evidence that brick truly is standing the test of time.

One of our Grand Prize winners – House 1014, located in the historic city of Granollers, Spain – sets an example of how to use leftover space in urban areas. Accessible from two streets



House 1014 – HARQUITECTES – Spain © Adria Goula

“
These award-winning projects provide emphatic examples of how brickwork continues to deliver innovation, versatility and economy

Annette Forster



Seven Acres – Cambridge – Formation Architects © Louis Sinclair



Colour your thinking



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and surrounded by firewalls, the architect had to work within a very narrow space – a width of just 6.5m.

In response to the client's desire to divide the home into two independent zones, architectural office, HARQUITECTS created a sequence of alternating interior and exterior spaces – a private home and a guest house punctuated by terraces and atriums. This thought-provoking layout breaks down barriers between interior and exterior.

The orientation of the property and the surrounding walls had caused a distinct lack of natural light. This led the architect to set back the building and create patios on both street fronts. The new forecourts not only bring natural light into the room, but also aid natural ventilation

Crucially, the use of natural brick in House 1014 conveys both tradition and modernism, substantially contributing to the overall appearance of the property.

The winning project in our Residential Use Category was Termitary House, an innovative build in Vietnam. Termitary stands for the layout of the house – corridors, galleries and small rooms lead to one central room, which resembles the building plan of a termite mound. Similarities can also be found in the ventilation shafts and that all building materials come from the surrounding area.



Located in a tropical monsoon climate, the house is built entirely of brick so it responds to the extreme climatic conditions and relates to historic examples in Central Vietnam. It has an extremely economical layout with bathrooms, living and sleeping areas; an office, a small library and a prayer room have also been incorporated into the limited space.

Another special feature of the house are the openings in the roof and the perforated brick walls, which provide lighting and ventilation in all areas. When the wind blows along the outside of these openings, the flow of air is directed through the interior. This helps to cool the rooms without requiring any energy input.

These award-winning projects provide emphatic examples of how brickwork – as both a practical building material and a medium for forward-thinking aesthetic design – continues to deliver innovation, versatility and economy and at the forefront of our industry.

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DT3

CEMBRIT

unveiling a hidden chapter *of British naval history*

Artelia, the multi-specialist project management and engineering consultancy, has project managed the latest permanent display to The Historic Dockyard, Chatham - Command of the Oceans. The remarkable galleries are built around the 260 year-old skeleton of HMS Namur, preserved where she was discovered and still lies. The Namur was one of the Royal Navy's most significant warships of the Age of Sail. ABC+D finds out more...

Artelia project managers are regularly entrusted with some of the nation's most precious heritage and are used to leading challenging projects – The Command of the Oceans was one of their most ambitious to date.

The £9m project developed by architect, Baynes and Mitchell, has seen the upgrade of a substantial area of public realm, insertion of a new entrance building between the Mast Houses & Mould Loft and Wheelwrights' Shop, all Scheduled Ancient Monuments, while at the same time creating a new undercroft from which visitors can get up close and personal to see and smell the ancient timbers of the Namur.

Artelia had to ensure the ship beneath the floor, was not damaged during the building of a new structure above it. The Namur was discovered by chance in 1995. Routine conservation work on the Dockyard's Wheelwrights' Shop led to an astonishing discovery: The timbers of the 18th century warship had lain hidden and undisturbed under the floor for over two centuries. Over the past twenty years the Namur's timbers have been carefully preserved and the stories of this influential ship researched and brought together for the first time. Techniques involving tensile wires, more commonly associated with bridge construction, were used to create a platform above the timbers, avoiding any damage to this archaeological find from scaffolding, as works

progressed around it. Artelia had the added challenge of the main contractor going into administration during the project. A swiftly developed recovery plan and decisive action from the Trust's team and major funders, meant they were able to restart the project within a matter of days by taking on critical subcontractors directly. This resulted in Command of the Oceans being ready to open to the public just 11 weeks after the intended date.

Command of the Oceans is the starting point for telling the story of the Dockyard's role in British Naval supremacy, from the 16th Century, when Sir Francis Drake learned his skills at Chatham, through the heyday of the Age of Sail from 1700-1820 when the Dockyard's shipwrights designed and built ships that transformed the British Navy into the most

Techniques involving tensile wires were used to create a platform above the timbers, avoiding any damage to this archaeological find...

Artelia





powerful sea force in the world. State-of-the-art interactive displays tell a previously untold chapter of British naval history, showcasing the Dockyard's importance from its creation, almost 400 years ago, through to modern times. Building on the existing Hearts of Oak gallery – a digital reconstruction of Chatham Dockyard as it was in 1806 during the height of the Napoleonic Wars – Command of the Oceans provides new documentaries about life on board during the historic Age of Sail.

During the Construction phase, project manager, Steve Prowse of Artelia, was at the centre of the team, co-ordinating budgets, planning, design and construction activities.

Steve commented: "The team has delivered a huge step change in the Dockyard's history, one which the Dockyard, all the committed funders and team can be truly proud of. From the moment visitors arrive they are taken back through time to arrive at the new facilities where they find a truly unique and atmospheric experience. The old and new sitting so comfortably together is a credit to the architect and design team. It is an emotional journey as you move through the

museum, from national pride to reflective sobering moments when you appreciate the lives changed and lost during the creation of our naval history. Command of the Oceans is a true national treasure which engages the public of all ages and I am very proud that Artelia has been part of it."

Artelia has a broad spectrum of experience in the heritage, museum and cultural sector, having worked on prestigious projects such Bletchley Park, HMS Victory's Conservation, Canterbury Cathedral, Nottingham Castle, The Novium, Great Dixter House and Gardens, Fishbourne Roman Palace and National Museum of the Royal Navy.





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DT4

VELUX®

harnessing the healing power of nature



A high-end, mixed-use development that forms part of a new urban township called Medini in Iskandar, Malaysia, is nearing completion. The flagship scheme for Medini features over two hectares of green space designed by UK and Singapore-based Grant Associates and aims to promote residents' and visitors' wellbeing through therapeutic horticulture. ABC+D discovers more...

Envisaged by developer Pulau Indah Ventures to offer an oasis of urban wellness, Afiniti covers a total area of 1.9 hectares and comprises five zones – serviced apartments, residential units, a wellness centre, corporate training centre and wellness-themed retail.

Afiniti, with architecture designed by Kuala Lumpur-based aQidea Architects, is a key project in the ongoing development of Medini, a township spanning 9.2km² that has been earmarked to become the Central Business District of Nusajaya in the southern economic zone of Iskandar, Malaysia.

The Oasis

All of Afiniti's zones are distinct, with each converging on a shared green podium courtyard which sits upon the development's three-storey basement car park.

Designed and delivered by the Singapore office of Grant

Associates, The Oasis is a three dimensional green space with landscape features on multiple levels including a central ravine, colonnade, water walls and overhead walkways.

The Oasis aims to provide a welcoming retreat where people with varying backgrounds can enhance

their emotion and physical wellbeing by immersing themselves in nature.

Landscape concept – the healing power of nature

Grant Associates took the structure and physiology of a fruiting tree as its inspiration for The Oasis. In this concept, the garden takes root and grows in harmony with the architecture. Shoots and stems (paths and linking walkways) create a three dimensional network across the space where fruits and pods (individual gardens) occur at key nodes. These nodes provide protective spaces for seeds and flowers (art, play and water features).

The key theme of multi-layered green space continues into the five zones in the form of sky-rise, rooftop gardens and vertical planting. The planting palette uses many indigenous species to Malaysia and South East Asia that allow the gardens to be rooted in the ecological and local context. Plant species traditionally related to healing have been incorporated throughout the scheme.

The overall aim of the landscape concept is to interweave nature into the built environment, emphasise the interconnectedness of all life forms and enable people to experience the healing power of nature.

Afiniti's completion marks an important milestone in the development of Medini, which was created in 2008 with a focus on sustainability and future living.

Afiniti's completion marks an important milestone in the development of Medini, which was created in 2008 with a focus on sustainability and future living...

Grant Associates



Carly Lamb, senior associate at Grant Associates, commented: "Afiniti's landscape concept is a fundamental part of the identity of this key scheme for Medini, which centres on the theme of wellbeing.

"Every aspect of the landscape aims to enhance residents' and visitors' sense of wellness and, furthermore, inspire the imagination and excite the five senses.

"The scheme offers a range of experiences from adventure and discovery to therapeutic areas of reflection and calm. Social experiences are also provided for in the form of barbeque areas, play areas and places to sit together and enjoy the surrounding, natural lushness.

"This project is significant as it demonstrates the possibilities of creating unique and characterful spaces while dealing with the associated complexity of establishing a landscape upon a podium structure.

"More broadly, the completion of Afiniti helps to further establish this area's identity as a place that values corporate, personal and environmental wellbeing."

A sensory experience

The planting scheme appeals to the five senses. Highly scented plants, textural leaves encourage touch, movement of the plants in the breeze, colourful flowers and edible herbs tell the story of multifunctional uses of plants and the delight of the natural world.

Creating structure, shade and screening

The multi-layered forest approach provides a structure to give hierarchy to the sequence of spaces. The taller trees provide a filtered shade canopy to key spaces and routes; smaller

flowering and fruiting trees and shrubs provide colour and richness. Taller shrubs are used to provide enclosure and screening where privacy and seclusion are desired.

The gardens

Each forest clearing or garden space is designed to respond to the function and users of the adjacent building: The Wellness Centre garden is designed to create a healing and soothing retreat with more enclosed feel for privacy. Specific garden features include a yoga deck, reflective pool and reflexology path. The planting palette is focused on scented and medicinal plants that soothe the senses. The Corporate Training Centre maximises opportunities for people to meet and gather and share ideas. An indoor/outdoor experience has been created to provide shelter from the tropical heat while still benefiting from a lush garden setting.

Gardens related to retail, food and beverage include spaces for outdoor dining beneath feature tree planting, providing shade and maximising views through the wider landscape. The Residential gardens create a welcoming retreat for residents and include tropical flower gardens and a children's play area.

The central ravine provides a textural and multidimensional heart to the scheme. Level changes were maximised by creating a sheltered colonnade space, large central pool and water walls. The landscape character is inspired by a wet mountain ravine with large leaved shrubs and terracing infused with water features providing a cooling experience in the city.



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air pollution *high on the agenda*

With air pollution hitting the headlines and London's new mayor pledging hard hitting measures for cleaner air, GEZE UK is urging retailers, architects and specifiers to do their bit when specifying entrance systems to keep pollution out and the benefits of air conditioning in. ABC+D discovers more...

As the primary sponsor of the Close the Door Campaign, GEZE UK is urging retailers to help themselves, customers and the wider public by keeping shop doors closed during the heady months of summer.

It's easy to spot the offenders – just take a walk down any busy high street and see retailers who have thrown open their doors – many next to busy roads and junctions. The resulting traffic emissions make shop environments far less pleasant places to be and bump up the owners' energy bills by making air conditioning systems far less efficient.

A report by Public Health England (PHE) has shown that pollution shortens the average Briton's life expectancy by six months and that one in 12 deaths in some parts of the county – a staggering 30,000 a year – can be partly attributed to poor air quality.

It is in our cities – where pedestrianised areas and arterial traffic flows have to be balanced – that air pollution levels are at their highest. It's bad news for city shopping centres – as temperatures increase during the summer months, so does the risk of prevailing smog.

London's new mayor, Sadiq Khan, has said that he wants to be the greenest Mayor London has ever had and aims to improve the capital's pollution problems by pedestrianising popular shopping areas such as Oxford Street and increasing green public spaces, described as "crucial lungs for the city".

In addition to these plans, simple practical measures can also make a big difference.

Independent research from Imperial College and Kings College London found that

closing the door reduces airborne pollution in shops by a third – minimising levels of three airborne pollutants – PM2.5, black carbon and NO₂ – during working hours.

Poor air quality particularly affects those with underlying health problems including respiratory illnesses like asthma or COPD (chronic obstructive pulmonary disease) as well as cardiovascular conditions which leads to spikes in ambulance calls during the summer.

City centre shops suffer from their proximity to traffic and related congestion, with diesel exhaust emissions having the most significant impact, having been classified by the World Health Organisation as a Group One carcinogen. Diesel has been dubbed a silent killer as the particles it throws into the



We must all make our shopping and work environments safer and more pleasant by ensuring that the correct doors are fitted and remain closed during the summer months

Kaz Spiewakowski



air have little taste or smell and, in addition to its long-term effects to health, it can also trigger immediate symptoms such as irritation of the eyes, throat and lungs, headache, heartburn and nausea – an uncomfortable consequence to a day's work or shopping.

Kaz Spiewakowski, managing director at GEZE UK explained that specifying the right door for a refurbishment or new build will help retailers improve air quality in their stores and contribute to energy efficiency by allowing air conditioning systems to work more effectively:

“This is clearly a significant issue which is currently hitting the headlines as campaigners and politicians battle to manage the wider issues which affect our environment. But we must all play our part and make our shopping and work environments safer and more pleasant environments by ensuring that the correct doors are fitted and remain closed during the summer months.”

“It is important that in developing new premises, architects and specifiers take account of the environment in which they are located and select the right products to minimise the impact of exhaust emissions. It is equally important for those who manage such premises to consider using them in an appropriate manner and not override automatic systems or prop open manual doors.”

Jeannie Dawkins, founder of the Close The Door campaign said: "Air quality across UK towns and cities is now routinely poor. Most of our air pollution comes from diesel emissions, a Group 1 carcinogen with no safe level for human health. This pollution is largely invisible, tasteless and odourless. UK deaths from air pollution are at 30,000 annually and rising; a stark figure in comparison to 1,700 annual road deaths. Many of these deaths are associated with spending time on or near roads. Serious chronic illness is a future threat for thousands more. Shops with their doors open to the road present a serious and avoidable danger to the health of their staff and customers.

“Many thousands of shops across the UK now trade very well with a closed door, from the highly successful and innovative John Lewis Partnership down to small independents. Creating a calm atmosphere and increasing wellbeing in-store increases enjoyment of surroundings and time spent browsing. In these times of radical change on the high street, successful retail requires bricks and mortar shops to compete/complement online sales by providing an excellent experience. Open door policies are not only hazardous to health but outdated.”

To find out more about the Close the Door campaign, visit www.close-the-door.org.uk

specifying integrated access control solutions

Paxton outlines the benefits of its Net2 networked access control system...



DT201

Introducing access control

Networked access control allows people to move freely about a facility or building, while also allowing specific areas to be managed with higher security. It provides an efficient and convenient way of offering secure, flexible and cost-effective building access management. It can also be used as an effective HR tool, providing easy staff time and attendance reporting.

If you are looking to extend building security beyond access control, it is also possible to integrate the system with a range of third party systems including CCTV, biometrics, fire and intruder alarms.

Networked access control provides an efficient way of offering secure, flexible and cost-effective building access management...

Paxton

With over 30 years of experience, Paxton is the UK market-leading designer and manufacturer of IP access control and door entry systems. The company's products harness the latest technology to provide powerful, yet easy to specify and install solutions.

Paxton specialises in systems for the mid-market such as education, healthcare, retail, leisure, commercial and public sector. At present, around 25,000 buildings are secured by Paxton globally each year.

Case study

The business growth of an acclaimed chain of French butchers meant an increased need for security at all of its premises located throughout Paris. Boucheries Nivernaises wanted a solution that would protect against theft and to ensure a safe working environment for their employees and Paxton's Net2 networked access control system fitted the bill.

An integrated solution was specified combining CCTV and a video management system (VMS) together with Net2 access control. Net2 is a user-friendly, flexible networked access control system, designed to make the management of any site straightforward.

Employing the use of PoE technology and plugging straight into an existing network meant there was no need for additional wiring, making the installation quick and easy.

Installing Net2 meant that Boucheries Nivernaises could centralise the administration and control all of its five sites from one central PC, plus, the integration with a VMS meant that those overseeing security within the business could monitor the premises 24/7. Paxton provided the chain with a cost-effective, integrated security solution.





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Cundall proves *hearing is believing*

Cundall's new Virtual Acoustic Reality system brings new vision to acoustics design...



DT202

Cundall launched its new Virtual Acoustic Reality (Cundall VAR) system in the UK in February 2016. Cundall VAR is a cutting-edge tool for both clients and design teams and is set to transform building and infrastructure design with a combination of audio-prediction modelling and gaming-quality graphics.

Eschewing the flat graphic interface of traditional acoustics computer modelling, the Cundall team has combined the Oculus Rift virtual reality headset with a gaming engine and high-quality audio to take clients and project design team members on an immersive audio and visual tour of a building – before it is built. The ability to hear how sound actually changes as users move through different spaces will enable valued decisions to be made based on experiential factors rather than numbers on a page.

“We’ve evolved from a very boring static numerical

Creating buildings that have better acoustics and have a positive impact on the end user experience is one of our passions...

*Andrew Parkin
Cundall*

prediction through to something which is based on an audio visual experience; it is now dynamic, immersive and can be taken around the world to clients,” said Andrew Parkin, Cundall’s acoustics partner.

The user sees a 3D representation of the inside of the building, including furniture, partitions, etc., simultaneously hearing whatever noise sources are input into the model. This could be a teacher within a classroom, assessing the clarity of sound reaching a student; a piano within a recital hall, to judge the level of clarity and listen to the effects of reverberation and echoes within the room or various sound sources within a restaurant, allowing an operator to appreciate the benefits of providing specific acoustic treatments within the dining room.

Any development which has neighbouring sources of noise (airports, railways, motorways etc) can use Cundall VAR to give peace of mind to the client, designer and end user. Fully portable inside its sturdy flight case, Cundall VAR can be set up on site or in colleagues’ offices, improving communication between the different members of the design team by giving each equal access to the design, in an understandable and relatable format. Proposals can be evaluated, potential problem areas identified and alternative solutions tested – all while the building is still at the design stage.

Andrew Explained: “At Cundall, we believe the more people that can be engaged in the design and decision process, the better the end result of a project will be. Creating buildings that have better acoustics and have a positive impact on the end user experience is one of our passions.”

Cundall VAR links a powerful 3D graphics program, Unity, with the CATT Acoustic software. Users operate an X-Box controller to move forward, backward and side to side within the 3D model. The Oculus Rift headset system changes the direction of the virtual head, giving 360° vision and altering the 3D view displayed to match the user’s orientation. A pre-programmed acoustic model calculates the conditions at many locations across a grid and the 3D walkthrough enables the user to travel across that grid, hearing – in real time – how the sound changes.

STRESS ENDANGERS LIVES

A powerful new film launched by the British Safety Council shows how stress can lead to injury and fatalities at work. In any activity where concentration is vital for safety, such as working in construction, driving or in health and social care, stress can be fatal.

Stress is often discussed in relation to sickness absence. However, it is less reported how it can endanger lives. Research shows that up to 80% of accidents can be related to stress at work. Matthew Holder, head of campaigns and engagement at the British Safety Council, commented: "It is well documented that stress is a significant cause of sickness absence, undermining both productivity and profitability. What is less discussed is how stress can endanger lives. Evidence shows that stress significantly contributes to injuries in sectors such as construction, transport and agriculture. In the medical profession, stress is a major predictor of work-related accidents and there are strong links between fatigue and sharp injuries.

"We made *The last word* to warn people that being tired, distracted and unable to fully concentrate can make simple tasks like climbing a ladder more dangerous. Aimed at employees, it contains a warning that being stressed can endanger their lives. However, the film is also directed at employers, showing how important it is that managers and supervisors identify the symptoms of stress and help their staff to deal with it."

Watch the video at:
www.britsafe.org/SUSS/video-stress-speak-get-help



Over 200 new buildings in 2016 Open House programme

This year Open House brings you over 200 brand new awe-inspiring projects, from beautifully designed residences to infrastructure projects and high-tech health facilities.

The 2016 entries range from Salters Hall – a rare example of a Brutalist Livery Hall recently refurbished; a sneak preview of Here East, to a walk exploring Brentford's Floating High Street which links to the newly transformed industrial sheds.

There is also a chance to win a visit to the top of ArcelorMittal Orbit, at Queen Elizabeth Olympic Park.

Open House will offer an opportunity to see, explore and learn about amazing architecture and design in your area and

across London over one weekend. More than 750 buildings of all kinds will open their doors across London, alongside a programme of walks, engineering and landscape tours, cycle rides and experts' talks – all for free.

In addition to the many buildings, highlights of the Open House programme include celebrating an open equitable city highlighting developments such as Silvertown, St John's Hill and Stirling Prize winner, Derbyshire Place.

Full details of buildings and events have been published in the 2016 guide, website listings and Open House app.

www.openhouselondon.org.uk
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Plummeting pound is pushing up material costs, warns FMB

Concerns over the rising costs of construction materials could be exacerbated by a weakening currency following the EU referendum result, the Federation of Master Builders (FMB) has warned.

Commenting on the FMB's State of Trade Survey results for Q2 2016, which show that two-thirds of construction SME bosses predict material price inflation, Brian Berry, chief executive of the FMB, said: "Following the EU referendum, the plummeting value of Sterling has further complicated an already difficult situation for small construction firms. Even prior to the referendum result, nearly two in three bosses were anticipating rising

material costs, on which there has been intense pressure over the past couple of years, as demand for projects has picked up again. With the dramatic fall in currency value however, we're concerned that the trend towards price inflation will gather pace. We've already heard accounts of timber and brick costs rising and a number of sources have said that even steel prices have risen by 8% since the decision was made to leave the EU.

The FMB is committed to raising quality in the construction industry and offers a free service to consumers called *Find a Builder*. Visit: www.fmb.org.uk

£426m investment bid by D2N2 to boost the economy and jobs



A £426m capital investment programme – set to create an estimated 12,910 new jobs – is being bid for by the D2N2 Local Enterprise Partnership, to boost the economy.

D2N2 – the private sector-led partnership of business, local authorities, higher and further education providers and voluntary and community services promoting economic and jobs growth across Derby, Derbyshire, Nottingham and Nottinghamshire – previously received £192m in Local Growth Fund (LGF) monies from the Government. This is being invested in infrastructure – transport routes, centres for business,

skills facilities, faster broadband access, etc – to help support economic growth and businesses' development.

Of the £192m LGF funding D2N2 received, in 2015/16 alone £39m was invested in 14 projects across the LEP's area. Regional contractors have benefited from this, with almost two-thirds (64%) of those contracts going to companies located within 20 miles of the D2N2 area.

Now D2N2 is to submit a bid for a further £107m from the Government's Local Growth Fund 3 allocation – a £1.8bn national fund opened to bids from England's 39 Local Enterprise Partnerships in March (2016). Details of D2N2's bid were revealed at its 2016 Annual Conference and AGM on July 26, held at Vision West Nottinghamshire College's main Mansfield campus.

If successful, D2N2 would use its £107m in LGF 3 money to lever-in an additional £318m worth of private and public sector investment – creating a total package of around £426m to support 23 vital projects across its area.

A scaffold-like façade for King's Cross



designjunction has announced plans to create a super façade structure at its London show in King's Cross this September (22–25) – designed by Satellite Architects, alongside Danish design curator, Icons of Denmark. The teams will be using the modular and versatile GRID system by Danish designer Peter J. Lassen.

The London-based practice has designed a spectacular 70m long by 7m high façade entrance to Cubitt House, the trade destination at designjunction during this year's London Design Festival.

Cubitt House, located on Lewis Cubitt Square within the King's Cross redevelopment, sits on the border of the latest phase of construction. Spanning over 2,500m², this two-storey temporary structure will house more than 100 international furniture and lighting brands.

Satellite Architects was inspired to use a scaffold-like grid system to wrap around an existing screen of trees and bushes. To achieve the sharp, elegant and well-defined structure, the architect is using GRID – a multi-functional modular interior system that allows creators to build with maximum freedom and simplicity.



PANASONIC PRO AWARDS 2016, NOW OPEN FOR ENTRIES

Panasonic Heating and Cooling has announced that the second PRO Awards is now open for entries. Panasonic is inviting entries from installers, specifiers and consultants, for a chance to win a prestigious PRO Awards 2016 Trophy.

Successful applicants will also gain recognition, PR exposure, plus an invitation to join a VIP trip to visit Panasonic's HQ in Japan.

The Panasonic PRO Awards celebrate industry excellence in the design,

specification, installation and commissioning of Panasonic systems. Panasonic is looking for projects that demonstrate flair and innovation, efficiency, cost-effectiveness, aesthetics and, above all, showcase sustainability in design.

To enter visit: www.aircon.panasonic.eu/GB_en/pro-awards





DT205

Versatile Sanifloor for multiple applications

The Sanifloor shower pump was launched by **Saniflo** to cater for shower areas where floor drainage is required but space underneath is limited, such as wetrooms that feature tiling or vinyl flooring or showers with super slim shower trays. It has a choice of waste designs, as well as a range of other benefits that allow for greater flexibility, which have proved to be a big draw for customers, with the pumps being sold into a multitude

of applications. Domestic customers are afforded the opportunity to add extra bathroom facilities in areas where there is no traditional drainage, while councils and local authorities are using Sanifloors to convert spaces in both houses and public buildings for less-abled residents and customers. The pump features a high flow rate of 25L, so that it can be used with powerful rain shower heads and has a dual action feature that sucks waste up from the gully and pumps waste water away up to 3m vertically and 30m horizontally.



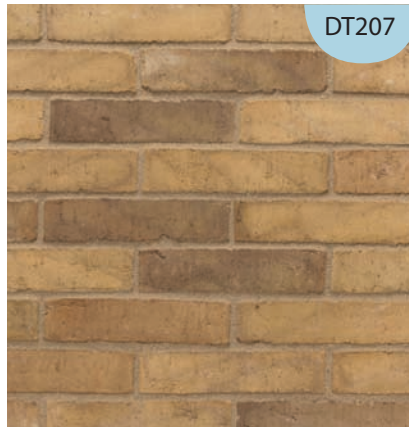
DT206

New Avire website goes live

Lift safety and communication specialist, **Avire**, has launched a new website to support the company's ambitions for continued growth. With an improved layout and structure which brings all of the Avire product brands together on one platform, the new website is designed to be easy to navigate and contains details of Avire's full product range. Downloadable product catalogues and literature are also available on each of the product pages. The website is available in five languages (English, French, German, Italian and Spanish) and there are plans to include Chinese and Japanese over the coming months. Faye Bartlett, marketing manager at Avire, commented: "The new website offers extensive technical backup and information on our whole product range and is informative and easy to use."

Six new waterstruck bricks added to Wienerberger range

Wienerberger, UK provider of wall, roof and landscaping products, has added six contemporary waterstruck bricks to its ever-expanding product offering. The new bricks have been introduced in response to the growing demand and popularity for this type of continental style waterstruck product. These new bricks offer architects and designers an exciting range of contemporary colours from white and cream to grey and black. They are also available in two different size formats to allow for even more design creativity. As well as standard UK format 215 x 102.5 x 65mm, this range is also available in Danish format 228 x 108 x 54mm.



DT207

Flat is back

Friendly faces.

Our new flat roofing solutions meet the standards of integrity and performance you've been demanding. But sometimes you need to talk to a person, so Melanie is here, directing your call to the experts you need. Plus, like with all Celotex products, you can find even more information and other handy tools online.

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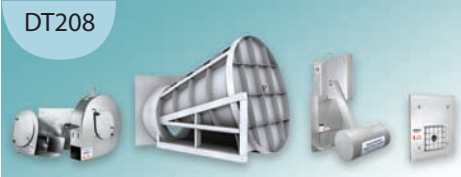


Melanie
Receptionist

Flat Roofing
...by Celotex

Celotex
SAINT-GOBAIN

DT7



A comprehensive toolbox

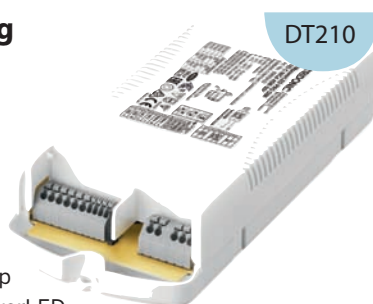
Hydro International is launching The Hydro-Brake Flow Control Series, a versatile toolbox of precision-engineered devices for surface water, watercourse, foul and combined sewer network control. Building on Hydro International's leadership in flow control

technology for more than 35 years, the launch unites each product in the series with the reputation for quality and repeatable high performance, embodied in the Hydro-Brake brand name. Comprising Hydro-Brake Flood, Hydro-Brake Optimum, Hydro-Brake Agile and Hydro-Brake Orifice, the Hydro-Brake Flow Control Series provides sustainable, performance-optimised water attenuation and control, whatever the project. Alex Stephenson, market development director for Hydro International said: "The name Hydro-Brake has always been synonymous with rigorous research and continuous product development. The Hydro-Brake Flow Control Series now offers precision flow control performance for every site and budget – from flows of just a few litres per second up to major flood defence schemes."

Combining everyday and emergency lighting

Tridonic's new EM powerLED 45 W LED Drivers in PRO DIM and SELV versions combine normal and emergency lighting modes for LED luminaires in one unit. The compact housings of the installation version save space in the luminaire and the modest space requirements of these combination devices will provide greater freedom for luminaire designers.

The combination LED Drivers provide an output of 45W in normal operation and the integrated battery system produces up to 4W of emergency lighting power. In normal operation, EM powerLED PRO DIM 45W can be dimmed via DALI, switchDIM or the corridorFUNCTION and is prepared for ready2mains. Emergency light functionality is monitored centrally via DALI. One DALI address is sufficient for performing lighting control, dimming and the prescribed emergency lighting tests and for documenting this centrally.



New shower cubicle website

Saniflo UK has launched a new website showcasing its brand of luxury Kinedo shower cubicles making it easier than ever before for trade customers and consumers to choose a cubicle from the range available and bringing the website up-to-date with the recently published new Kinedo brochure.

The site now displays all product codes and sizes and also features all the current installation guides, including for the latest Moonlight Quad and Eden shower cubicles. The website also provides links to dates for Saniflo's current roadshow, where the products are being showcased and demonstrated to installers, merchants and consumers. These will be updated throughout the summer. Visitors to the site will find the news and case studies (found under Why Kinedo?) highly informative and practical. Furthermore, technical information and installation videos are to be added.



Brett Martin launches roof sealant range

Brett Martin Daylight Systems has launched Roof Sealants, a range of fillers, tapes and sealants which offer extensive product choice, excellent customer service and competitive pricing. The range features products capable of solving a host of sealing issues. Polyethylene, Supaseal and Very High Temperature Material (VHTM) exhibit the highest standards of accuracy, design and quality, ensuring a solution for all types of cladding and rooflights, airsealing and fire or acoustic sealing. For more specific requirements, Brett Martin can manufacture bespoke fillers using its extensive profile identification guide. Such fillers can be used within eaves, ridge and other roof intersections. Sourced from brands such as Soudal, Hodgson Sealants and Dow Corning, Brett Martin Roof Sealants provide the most extensive product choice possible.

CRL launch Venturous Builds web series

AN inspiring new web series that showcases Britain's most extraordinary people and their construction achievements has been revealed by CRL.

The structural defects insurance specialist launched its pioneering new web series by going where no other insurance expert has gone before and sending their logo into space.

The space launch, which can be viewed on CRL's YouTube channel, aims to inspire the fellow venturous, brave and unorthodox to share the details of their venturous builds with CRL for a chance to have their project featured on the online show.

Self-builders are being asked to submit their projects and architects, builders and developers refer their venturous builds over the summer.

The filming of these unique projects will then take place, with the first episode of Venturous Builds going live early Autumn, hosted by English designer and regeneration expert Wayne Hemingway.

A writer for architectural and housing publications and a TV design commentator, Wayne also judges international design competitions, including the regeneration of Byker in Newcastle and Salford in Greater Manchester, the The Royal Institute of British Architects Stirling Prize and European.

Share your plans with CRL at www.c-r-l.com/venturousbuilds for a chance to be featured in this inspiring new web series.

If your project is featured, you will be treated to a £1,000 worth of interior design vouchers.

To watch the footage of CRL's space launch please visit: <https://www.youtube.com/watch?v=64NwAllifTU>



DT8

REHAU publishes new guide to Passivhaus products

REHAU has published a new brochure on its Passivhaus products to coincide with its sponsorship of the 2016 Passivhaus Awards and Conference. The new brochure, available to view in the Highlights section of the REHAU Docs app or via the website, showcases REHAU's range of products for the fast growing Passivhaus sector and includes case studies on installations ranging from commercial offices to multi-occupancy developments. It features products such as REHAU's fully recyclable and Passivhaus certified GENE0 window system, its aluminium clad REHAU Polytec 50 composite curtain walling system (also Passivhaus certified) and its AWADUKT Thermo ground-air heat exchanger. The brochure also sets out REHAU's expertise in Passivhaus construction and its global experience, highlighting projects in the UK, Europe and the US. As a specialist in this market, REHAU is backing the efforts of the Passivhaus Trust this year, to promote awareness of, and best practice in, Passivhaus design.



DT213

V850 gate valves open up a plethora of opportunities

Pegler Yorkshire continues its drive to further enhance its valve portfolio and support its customers' objectives of system optimisation. The new V850 ductile iron gate valve has been introduced to the company's commercial valve offering and adds a solution for potable water applications. Gate valves, primarily used to allow the flow of liquids, ensure very low friction loss and provide a high flow path when in the fully opened position. The new V850 is characterised as having a non-rising stem which supports ease of operation in confined spaces. The WRAS-approved V850 from Pegler Yorkshire boasts numerous benefits over other gate valve types as it is suitable for isolating pipelines that transport potable water. Its design incorporates a stainless steel stem providing resistance to corrosion. In addition, its discs are coated in an EPDM material to reduce exposure of fluid to metal surfaces. The valve is coated in an Epoxy paint to prevent direct contact with the ductile iron body and so avoiding any contamination of the water supply.

DT9

Super**FOIL** SF60

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DT214

Bespoke application in eight weeks

Last month **Propeller Studios** made live a bespoke computer application to manage a gas servicing and repair contract for 16,000 homes. The project was designed, programmed and tested within an eight-week period. The solution facilitates the two-way exchange of data between a contractor's

computer system and ProMaster and Orchard, which are commonly used by housing associations to manage gas servicing work. After agreeing a new, multi-million pound contract to undertake the work, an existing client approached the company to provide the IT solution because of its outstanding 11-year track record of delivering projects of a similar nature, on their behalf. The new system checks for and imports changes in either the client's or suppliers systems. The frequency that information is exchanged can be set depending on project requirements. It covers a range of activities such as repair requests, service activities, appointment processes and updating asset information.

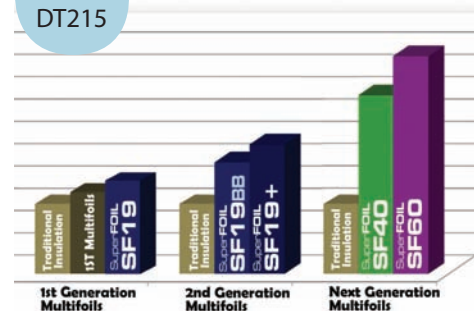
Free project support from BAL

BAL has released a series of short videos about how tilers can get free on-site project support. The new videos, available on BAL's *You Tube* channel, or sent directly to YOU+BAL partners, highlight how BAL's Product Support Technicians (PST) provide hands-on, personal support for all tiling industry professionals across the UK. Founded more than 20 years ago, the PST concept is unique to BAL, which has placed strong emphasis on support throughout its history. The BAL PST service is available to tiling professionals for free across the UK and is also one of the many support services available to members of BAL's new partnership programme – YOU+BAL. As well as access to product support, YOU+BAL gives fixers and contractors a wider range of business development tools, business support tools, training and rewards. The full range of BAL support can be seen with the new YOU+BAL partner programme.



DT216

DT215



Improved thermal performance

When Building Regulations were planning to increase thermal requirements in 2010 and 2014, **SuperFOIL** was already working hard to develop products to meet this demand. By doing this the company now has the highest performing and most diverse range of multifoil insulation on the market. Next generation multifoils SF40 and SF60 offer the ultimate technological advances in multifoil performance – continuing to improve thermal performance when traditional insulation has remained the same. SF40 leads the way with LABC System Approval RD199-0512 offering solutions that maximise performance while further reducing overall build costs and thickness by minimising the need for additional insulation. SF40 is the best choice for great performance and value.



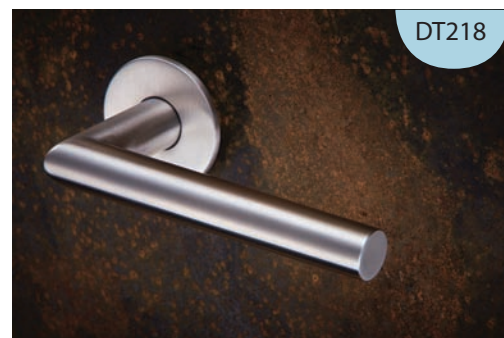
DT217

Colour up for summer

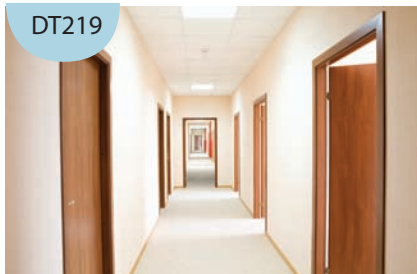
Get the deepest colour possible for your garage door thanks to **Garador's** choice of premium coloured options on steel up-and-over garage doors. Garador's powder coating process incorporates the latest electrostatic techniques to produce the most vibrant and resilient colours in a range of shades for its ever-popular up-and-over doors. For example, Garador even offers five different shades of grey – the new top-selling colour this summer.

Architectural ironmongery CPD

Allgood has launched its latest RIBA-accredited CPD seminar to demystify architectural ironmongery specification. Offering an unrivalled level of knowledge and insight into the architectural ironmongery sector, the interactive presentation provides architects with the opportunity to gain a detailed understanding of how to successfully specify ironmongery. The CPD therefore demystifies ironmongery terminology, relevant standards and regulations, as well as awareness of best practice guidelines set out in Approved Document M and BS 8300. Considering the five essential steps to ironmongery specification – hang it, close it, lock it, open it and dress it – attendees of the CPD will leave confident about approaching the specification process.



DT218



DT219

One man with one screwdriver

Architectural ironmonger, **BJ Waller**, has launched a new service with a leading UK door manufacturer for fully integrated commercial doorsets for commercial internal doors, including fire resistant, acoustic, X-ray and many more. As well as ensuring accurate specification for high usage applications, delivering slabs with pre-prepared hardware will speed up timelines for contractors by making doorset installation a job for one man with one screwdriver.

Each doorset schedule is tailored to the project, with BJ Waller providing expert technical advice and support to deliver the right hardware for the chosen door slab. Options include BJ Waller's new Quick-Fit Plus system which offers easy and precise assembly of the whole door handle set in a few seconds and without the need for screws, bolts or grub screws. Integrated doorsets are designed to make life easy for everybody. For contractors, there are obvious advantages in terms of time and cost-savings but the bigger benefit will be to reduce the chance of damage to doors from fitters rushing to complete the job.

Crometta combines water efficiency and premium design

The latest **Hansgrohe** Crometta range, comprising overhead and hand showers, shower sets and showerpipes, has been developed in collaboration with long-standing partner, Phoenix Design. Specially created for the entry-



DT220

level segment, it combines water efficiency, sustainable technologies and premium design at an attractive price. The new Crometta range is showcased at The Water Studio, Clerkenwell, London. With project expertise and support central to the studio's offering, the Hansgrohe Project Team is on hand to offer invaluable advice on issues such as water regulations (WRAS) and can demonstrate how to save money by using resources more efficiently and selecting quality products with long lifecycles that deliver genuine value.

Enhanced mix

Bradstone has enhanced the mix design of its reconstituted stone roofing portfolio to offer better colour pigmentation and increased environmental credentials to customers. A change in pigment added to the mix has resulted in a



DT221

deeper, richer colour and better aesthetic finish across the Conservation, Cotswold, Crofters and Old Quarried ranges, while the introduction of recycled aggregates is offering a more sustainable solution for specifiers. Jeremy Lee, sales director for Bradstone Roofing, commented: "We have always prided ourselves on roofing products that replicate the aesthetics of natural stone. The improvements we've made to both the colour and the environmental credentials of the products takes this to the next level, helping dwellings to better blend in with their surroundings in a more sustainable way, especially in conservation planning areas."



DT222

New vehicle leasing options

Fleet managers will welcome FCS Vehicle Solutions, the new service offering unbeatable vehicle acquisition options nationwide. The service has been created by **Fuel Card Services** to ensure that fleet managers are

not limited to local dealers or restricted finance choices when acquiring a new car or van. Steve Clarke, Fuel Card Services group marketing manager, said: "We can offer outstanding deals on every make and model from 32 vehicle manufacturers, sourced through more than 4,000 dealers nationwide. It means that we can ensure the best possible deal, even if only a single vehicle is required. Where a fleet manager looking for a Focus might seek quotes from their nearest dozen or so Ford dealers, we are in contact with all 500+ dealers throughout the country." Fleet managers are not restricted to standard vehicles, but have exactly the same freedom to specify options and colours as they would have if dealing directly.



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DT10



DT223

coBuilder awarded for embracing BIM

coBuilder is the Innovation Award winner in the 2016 CE Wales Awards competition for focusing its work on BIMifying the British and the Welsh construction industry in particular, throughout the past year. Since the establishment of coBuilder UK in June 2015, the company has been devoted to helping the construction industry embrace digital products' data with the sole purpose to increase productivity, quality, profit and sustainability. coBuilder is the first business in the UK that allows construction product manufacturers to structure their product information in multiple BIM formats

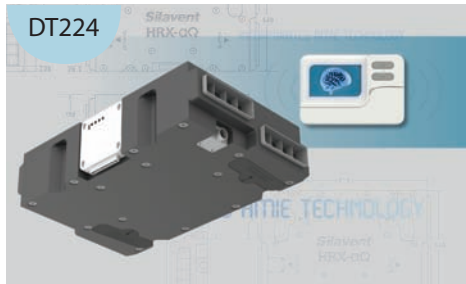
and languages so that they can control that data and share it with their customers through openBIM. The decisive step away from PDFs as the main means of sharing information, allows the company to work towards fully utilising live and accurate construction data.

Smart technologies for the digital bathroom

GROHE is taking a broad approach to the ongoing and increasing digitisation of society. Its smart products are not only engineered for convenient handling and fast operation but they also enhance their users' wellbeing, offer numerous options for personalisation and deliver that extra touch of luxury essential for a modern, relaxed lifestyle. Digitisation in sanitary technology has been pioneered by GROHE, driving industry progress by introducing as many as 150 new products each year. Ten years ago the launch of GROHE Ondus marked the beginning of this major trend. Today, GROHE offers a range of digital taps, showers and shower toilets. Digital technology has arrived in the bathroom and it is here to stay. The next step will be to enable even more efficient networking between the different types of digital products and create truly comprehensive digital solutions for the smart home of tomorrow.



DT225



DT224

Intelligent home air solutions

Polypipe Ventilation has announced its next generation of Mechanical Ventilation with Heat Recovery (MVHR) appliances – the Silavent HRX-aQ, which intelligently manages air conditions for maximum homeowner comfort, while also being easier to design-in. Properties come in different design styles, fabrics, locations and orientations, all of which have an impact on their thermal behaviour. Furthermore, occupants' comfort levels can vary significantly, with one person's comfortable temperature being another's overheating point. The HRX-aQ has been designed by Polypipe Ventilation to take these factors into account, matching ventilation rates to the internal environment and occupants' requirements for maximum comfort, while also being the quietest and most compact Silavent MVHR unit available.

Jet Cox joins the BIM revolution

To further support its commitment to its architectural and contractor partners, Jet Cox has launched full BIM capabilities for its complete portfolio of Rooflight solutions and Smoke and Heat Ventilation systems



The full range of Jet Cox rooflight and SHEV products, in both plastic and glass, is BIM Level 2 compliant with 3D data objects now available from the Jet Cox website and the NBS National BIM Library. General Manager Chris Lister commented:

"The new BIM offering from Jet Cox came as a result of 2 major considerations. Our design and construction colleagues have called for an increase in computer-led design solutions and Jet Cox needed to respond to that. Importantly, we also needed to ensure we meet the requirement for Level 2 compliance in order to tender for Government projects.

"The industry is maximising on new technology to ensure processes are continually improving – the result is a well-organised sector, with inclusive systems that offer benefits at every stage of the construction process. BIM is a major part of that and Jet Cox are in full support of the advantages it brings."

To download Jet Cox BIM objects visit www.jet-cox.co.uk or www.nationalbimlibrary.com and search Jet Cox

DT11



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building better *with BIM*

*The digital age is evolving. We are constantly adapting technology in order to enhance all aspects of the modern world. We have changed the way we socialise, the way we travel and the way we work in order to integrate the latest technology in our everyday lives. Building Information Modelling (BIM) is at the forefront of the latest digital technology in today's built environment. There is now almost a universal recognition of BIM within the construction industry, as well as widespread private sector investment in the implementation of BIM. So why is BIM so crucial to transforming the industry? **Steve Thompson**, MD of EOS Façades, specialist in the design, manufacture and supply of a range of steel sections for panelised or volumetric offsite solutions, shares his views on the positive impact that BIM will have on today's construction industry...*

In terms of procurement, BIM is a powerful tool that allows construction companies to quantify the requirements of their projects. This enables control of spending and time management resulting in the reduction of wastage in these areas. It is essential that BIM is used in the early design stages of a project to ensure that there is capacity to not only clearly identify the elements of the project but, through the use of BIM, companies are able to anticipate when they need to procure any given material or element. It is extremely difficult to transport the appropriate knowledge across all construction partners at the same time without the use of BIM. This can lead to the teams procuring the wrong materials at the wrong time, in different volumes.

In 2011, the Government committed to the use of Level 2 collaborative 3D BIM on all centrally-procured Government projects by this year. This is strategically planned as part of a larger overall strategy to combine the use of BIM with the latest modern technology, leading to the collaboration of the Government and construction industry working

to enhance skills and reduce the cost of infrastructure. The aim of this strategy is ultimately to position digitally enhanced construction as a prerequisite across the UK construction industry.

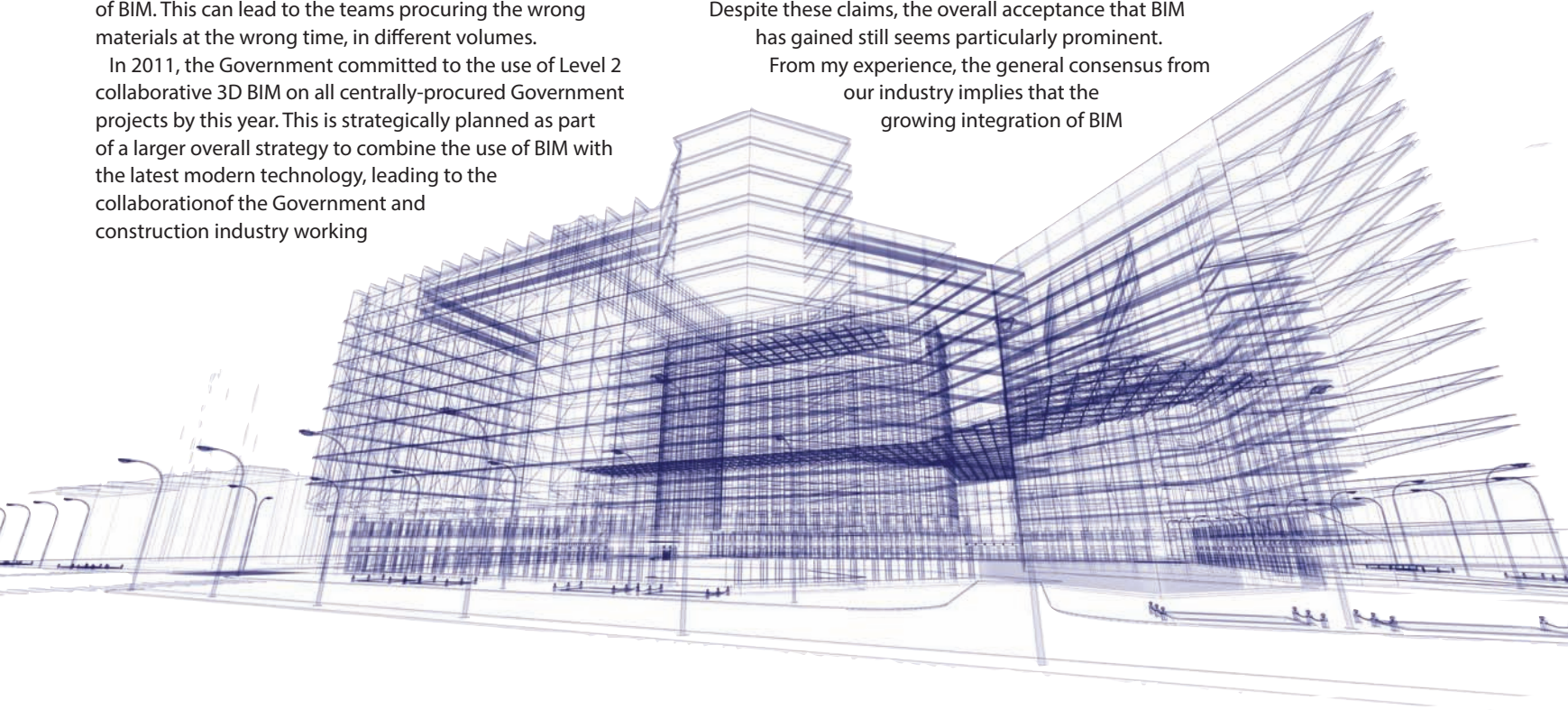
There has been scepticism, however, from some parts of the industry over the Government's BIM strategy. There seems to be a strong theme of companies claiming that there is a crucial lack of training in this area and that it is too costly and time consuming to invest in, particularly for SME's.

Despite these claims, the overall acceptance that BIM has gained still seems particularly prominent.

From my experience, the general consensus from our industry implies that the growing integration of BIM



Continued on page 30...



...Continued from page 29



It is predicted that BIM will bring many employment opportunities, particularly for niche software developers and offsite manufactures...
*Steve Thompson
 EOS Façades*

will have a positive effect with only a small percentage of construction companies stating that they will not be using the technology. More money is now being invested in BIM, with large jobs kicking off this year applying the use of BIM in more sophisticated ways than ever before.

I feel that the Government's implementation of BIM Level 2 will have a positive effect on our industry by bringing about progressive changes to the way that we work. Through the execution of this strategy, it is predicted that BIM will bring many employment opportunities, particularly for niche software developers and off-site manufactures, as well as upskilling current employees within our industry. By creating critical mass and certainty of demand, businesses should feel confident when investing in the development of BIM within their companies.

BIM is a key enabler for integrating off-site technology into construction practices – this is something crucial within Government projects as there is an acute need for time-efficient construction, as well as a vital responsibility for our industry and Government to reduce our carbon footprint through the application of low energy buildings – resulting in lower costs for the end user.

BIM helps to provide the platform for teams to integrate and work together, as well as delivering valuable information to confirm that the finished project will meet performance expectations. It is the ideal tool for connecting the whole life cycle analysis of a project – embracing new technology and a new culture of working. This is something that I feel the industry would benefit greatly from and would help to deliver projects with

heightened quality through efficiency of communications and accuracy of planning and design. I am eager to see the industry take this advanced method of construction to the next level.

DT226

Modelling Abet's Laminates

Abet Laminati is delighted to announce that, as part of its ongoing drive to ensure ease of specification, Building Information Modelling (BIM) is now available across its core ranges in the UK.

The BIM Objects are now available for the complete range of compact grade high pressure laminates. This includes the dedicated Cubicle, Locker and Labgrade Collections as well as MEG, the exterior grade self-supporting laminate. All Objects are compatible with both Autodesk Revit® and IFC programs.

Abet's UK & Ireland compact grade solutions are available in different thicknesses and a variety of sizes in a range of plain colours, speckled finishes, woodgrains and textured surfaces. The compact grade's solid core construction, available from 6mm to 12mm thick, makes it a perfect choice for areas prone to high moisture and humidity. This particularly applies to leisure centres, swimming pools and changing rooms and where there is no risk of peeling, cracking or delamination. The fully self-supporting boards are also easy to work with for cutting and fabrication and are widely used in situations where high quality performance and design can be carefully crafted together to create an attractive visual experience.

The BIM Objects will shortly be available from the NBS National BIM Library at www.nationalbimlibrary.com and are also available direct from Abet at <http://abetlaminati.com/en/bim>. Further information and support is also available from Abet on tel: 020 7473 6915 or via the website at www.abetuk.com



DT12



RENOLIT ALKORPLAN not just a single ply membrane

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DT13

creating the sound *of silence*

Acoustics play a major part in our everyday lives, so getting them right is vitally important. Sto investigates the key challenges and considerations that acoustics create...

The way that people experience a room or large space should provide the starting point for any architect or building designer. The room must certainly look the part, but it must also perform well acoustically. Ideally, both these considerations should be integrated into the design process but the acoustic performance is arguably the more important of the two.

While a visually unsuitable room can be unpleasant for the users, poor acoustics can render a space impractical and even unusable. A room's acoustic performance can influence our sense of wellbeing and if that performance is poor, noise from speech, movement and everyday activity can create an unpleasant environment where sounds are unclear, communication is difficult and concentration is impossible.

So what should we consider when assessing the acoustic performance of a room? The volume, frequency and number of sound sources are all important elements which must be considered alongside the sound reflection and absorption characteristics of the room's flooring, walls, ceiling and fixtures. If these elements are properly catered for, we can eliminate the long reverberation times which create undesirable acoustics.

The hard truth

Many architects and interior designers use hard surfaces such as glass, stone and marble in their creations. Although visually attractive, these surfaces reflect sound very efficiently and exacerbate any reverberation issues. Certain building types

can also present particularly demanding acoustic challenges and swimming pools are an example. Generally housed in a large noisy space, they feature tiled floors and walls, plus a huge water surface area, which can all adversely affect the acoustic performance.

Although visually attractive, hard surfaces, such as glass, reflect sound very efficiently and exacerbate any reverberation issues...

Sto

The need for acoustically absorptive measures is therefore clear – but this need not inhibit the architect or designer's creativity. Today's acoustic management solutions can offer suitable options for any type of building and virtually any interior design scheme can be interpreted in acoustically sympathetic materials. Large, seamless surfaces with invisible acoustic treatments are commonplace, as are modular solutions which feature the acoustic elements as an integral part of the design.

Naturally, every architect or designer wants to put their own stamp on their latest creation, therefore no two buildings ever present the same acoustic challenge. Consequently, there is no such thing as a standard solution. Every project demands its own tailored scheme, which can create a seemingly overwhelming sea of possibilities when looking for the most appropriate answer.



Continued on page 34...



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...Continued from page 32



DT227

Specialist support

The most effective way to navigate this challenge is to engage an acoustic specialist to model the likely acoustic behavior of the space involved. Bringing this resource on board at an early stage is always advisable as is involving an acoustic systems manufacturer in the project. Inviting the manufacturer's contribution right at the start of the project will open the door to the different systems suited to each type of building, not to mention a wealth of technical and practical advice.

The manufacturer will guide you through the many different types of acoustic management board systems and finishes on offer and help you save time and cost by identifying the most appropriate one for your project. They will help you design the most effective solution to your needs, provide reliable acoustic calculations and ensure that you gain the most value from the products you eventually specify.

They will help you consider the many different factors you will have to accommodate – such as light fittings, diffusers, access panels and ceiling bulkheads – and they are well

placed to advise on how these can be accommodated within their system. These types of features can potentially have a negative impact on the final acoustic performance unless they are properly considered, so it really pays to take advantage of the advice and guidance that is available.

You should also be able to look to the manufacturer for additional support once the project starts to take shape on site. Some will have provided training for the contractors who install their products and they can also give reliable advice on preparing the substrate (which can be particularly important on refurbishment projects). Site visits from the manufacturer's technical consultants will also help with the actual installation and final finishing and smooth the way to achieving both the visual and acoustic aesthetic you are looking for.

A picture of a finished floor being walked over would be nice, but our advice at this stage would be better.



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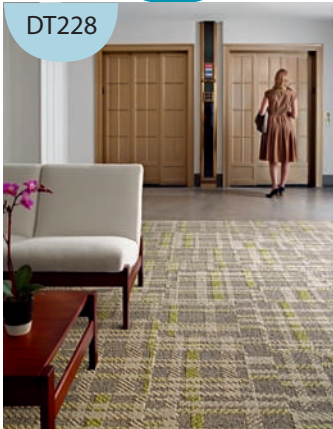


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DT15

DT228



World Woven collection is inspired by history

Interface is introducing World Woven, a global collection of Skinny Planks and squares which is inspired by textures found around the world throughout history. Uncomplicated, hand crafted and imperfect are attributes that are increasingly sought after in the materials with which we surround ourselves, given the hectic nature of modern life and all its newness. Developed by Interface's exclusive product designer, David Oakey of David Oakey Designs, the collection weaves together modern sensibilities with memories of some of the most enduring textiles of the past, including the tweeds and bespoke woven textiles of Oakey's upbringing in the UK. The World Woven Collection includes six 25 x 100cm Skinny Planks and three square ranges, each with eight colour options.

New flooring brings the outside in

High design luxury vinyl tiles from **Polyflor's** 2mm gauge Affinity255 PUR collection were recently installed at Tredz cycle shop in Swansea to give a brand new look to the shop floor area. Approximately 400m² of Affinity255 luxury vinyl tiles in Flamed Chestnut were installed by local flooring contractor Artisan Flooring in the specialist shop selling bikes, cycling equipment and accessories. The 16 authentically reproduced wood plank designs within the Affinity255 collection replicate the natural variations found in solid wood through the use of tonal hues and surface textures. The bold Flamed Chestnut design chosen for this Tredz store includes prominent knots and markings to give the effect of natural timber. Jamie Davies, South Wales area manager at Tredz commented: "The natural wood effect really brings the great outdoors into our shop interior."



DT230

DT229



Criminal Court ceilings

Hunter Douglas has played its part in the creation of the new €204m International Criminal Court (ICC), providing 29,000m² of ceiling panels. The 56,000m² complex, designed by architect Bjarne Hammer, of Denmark's renowned agency Schmidt, Hammer, Lassen Architects, had to express the essence of democratic architecture – something that the Hunter Douglas ceiling clearly demonstrates. "The ceiling connects spaces and creates a sense of sameness throughout the building," explains Hammer, "because the same ceiling is suspended everywhere – where the suspects' reside, where the lawyers work and in the office spaces." Hunter Douglas was commissioned to manufacture slim aluminium ceiling panels, perforated and inlaid with acoustic mats. These were selected for practical reasons because it enables fire safety and air quality installations to be tucked away neatly.



DT231

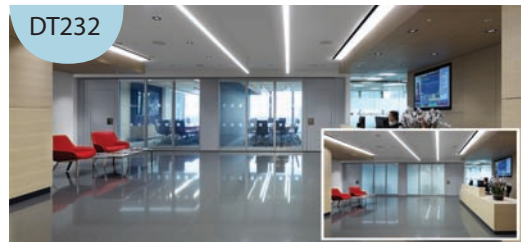
Long-term flooring solution

When the concrete floor of Amec Foster Wheeler's large industrial warehouse in Warrington began to show signs of failure, a new, hard-wearing flooring system was required to provide long-term performance and minimal disruption during installation. Importantly, **Sika's** solution featured a proven, high-strength screed that can be installed quickly and is able to withstand constant footfall, forklift traffic and heavy loads. Joint-free and easy to maintain, Sika's flooring systems are designed to fulfil an almost endless combination of function and aesthetics while meeting all industry requirements for mechanical and chemical resistance, impermeability and fire resistance.

Style works its magic

Style has installed the first DORMA Magic Glass partitioning wall in the UK. This transparent-to-opaque solution, offers instant privacy at the press of a button while retaining all the benefits of an acoustic, glass dividing wall. Magic Glass features liquid crystals suspended in a conductive layer. As soon as an electric current is passed through the two layers, the crystals re-arrange themselves in tight formation to create a clear glass wall. Turn the Magic Glass off and the wall turns into a milky, opaque partition, giving privacy when required. Working with Originate Architects and main contractor, Parkeray, Style was specified to create flexible space in the new UK head offices of DBRS, a provider of timely credit rating options. Situated on the 31st floor of the iconic Walkie Talkie building, the contemporary offices have been fitted out to a high specification throughout, with the Magic Glass partition reflecting this attention detail.

DT232



DT233

New surface reinforcement system

F. Ball and Co has launched the Stopgap SRS surface reinforcement system. Stopgap SRS is designed to rapidly stabilise and reinforce weak or poorly compacted screeds, providing a quick, simple, and cost-effective solution. Stopgap SRS rapidly penetrates weak and friable screeds, filling gaps and cracks and binding loose particles together. This creates a stronger, more stable surface. In most applications, the product can completely overcome the need to remove and replace the entire screed, which can be a costly and time-consuming process. Stopgap SRS has a fast setting time, which means that screeds can be reinstated overnight. This allows contractors to minimise the disruption that can be caused by a badly weakened screed; a particularly useful feature when deadlines are tight. Stopgap SRS is a solvent-free, low viscosity, two component epoxy resin surface reinforcement system. It can be applied over both sand/cement and calcium sulphate screeds, including those that contain piped underfloor heating systems. It can also be used over certain screeds that contain a significant amount of construction moisture, or where there is no effective damp proof membrane in place.

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DT16



DT234

Welsh Slate delivers Medieval makeover

Welsh Slate has contributed towards giving a Medieval castle a new lease of life. The manufacturer's roof slates, walling and floor tiles feature on multiple aspects of the £12.5m redevelopment of Cardigan Castle. Penrhyn Heather Blue slates from Welsh Slate's quarry at Bethesda have been used to re-roof Castle Green House, Ty Castell and The Stables while 200m² of dark blue grey cleaved walling from the company's Cwt-y-Bugail quarry clads the interior and exterior walls of 1176 – a new 70-cover contemporary restaurant which cantilevers over the castle walls. Here the coursed walling is complemented by Welsh Slate's Cwt-y-Bugail Dark Blue Grey floor tiles which are echoed in a total of nine new bathrooms in the East Wing guest accommodation and Green Street Cottages visitor centre.



DT235

On the level

The A. Proctor Group, renowned for providing high quality solutions for the construction industry, has supplied its Profloor Levelling System to contractor, Andrew Towns Wadey Builders, to help with the conversion of a Grade II listed building in Reigate to residential flats. The Linden Court development in Lesbourne Road, designed by PRP Architects, will provide 38 new homes. The former office buildings required a floating floor acoustic treatment to the existing out of level floors and Profloor Levelling System provided the solution. Developed to allow a level finished floor to be installed on a cambered, stepped or uneven sub-floor, Profloor Levelling System is typically used on structural concrete floors where the differences in level are too great. The floor is levelled by inserting packers in each levelling base to adjust the level of the timber battens and create a level finished floor, with no need for wet trades in the process. Offering a solution for conversions and new build developments of flats where impact and airborne sound reduction is mandatory, the Profloor Levelling System is easy to install, meeting the performance requirements of the current Building Regulations.

New carpet adhesive with added grab

Bostik has introduced a new formulation for its Laybond Carpet adhesive to provide extra grab, helping to combat carpet curl on larger projects. Available in a 5 or 15kg tub, the water-based, solvent-free acrylic emulsion adhesive ensures a fast and permanent bond, helping installers to deliver a high standard of work on time and within budget. Providing up to 45m² of coverage per 15kg, the low VOC carpet adhesive can be applied to concrete, cementitious screeds, chipboard, hardboard, plywood and smoothing compounds. It can also be used to bond textile floor coverings over most underlays. Suitable for use over normal underfloor heating installations, the new adhesive can also bond rigid and semi-flexible vinyl tiles and selected sheet vinyl. To celebrate the launch, Bostik is offering the chance to win 1,000s of prizes, including a weekend for two at a four star hotel. For full terms and conditions and to enter the competition, visit Bostik's website.



DT236



DT237

Hunter Douglas injects style to refurb

Hunter Douglas is adding its style and expertise to an ongoing £7m refurbishment of Enfield Civic Centre with a bespoke grill ceiling. Hunter Douglas was commissioned to create solid timber grill ceilings, totalling 480m², in breakout areas over eight floors. The project, which began in 2013, has seen the seventh, eighth and ninth floors completed and now work is to be undertaken to transform the floors three to six. Work on floors five

to one will take place over the next 20 months, with an expected completion date of summer 2017. Hunter Douglas used the CAD drawings created by Matt Godwin, head of interiors at Pellings, to create an Ayous grill ceiling in 7-40-15-55 module. The timber was impregnated with Hunter Douglas' standard fire treatment, which meets the European Fireclass B-s2-d0.



DT17

UZIN system used in Plattens Fish & Chips refurbishment

UZIN products were recently used to renovate the floor at Plattens Fish and Chip Shop in Wells-next-the-sea, Norfolk. This was a major redevelopment of the existing fish and chip shop's restaurant and kitchen. The floor presented a particular challenge because several different products had been installed onto the floors over many years.

Superior Finish (Contracts) Ltd turned to UZIN to ensure the installation was completed to the highest of standards, providing durability for the heavy footfall. The old floorcovering had to be removed, before 2 coats of UZIN PE 480 damp proof membrane was applied over the very old sub-floor. UZIN PE 280 primer was then applied, followed by a coat of UZIN NC 150 a heavy duty smoothing compound. Safety flooring was laid, capped and covered in the kitchen and preparation areas whilst luxury vinyl tiles were installed in the front of house. Both floor coverings were stuck with UZIN KE 2000 S pressure sensitive adhesive. The job was exceptionally well finished resulting in a durable and attractive floor.

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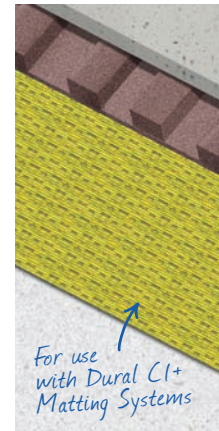
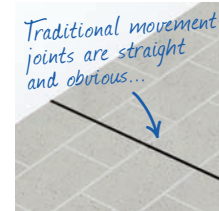
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DT18

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DT19



DT238

Tough new Rapid Floor Paint from Bradite

Bradite has launched a new, high performance, single-pack, moisture-cure polyurethane floor coating designed for professional application. Aimed at professional painters and decorators, contractors and specifiers, Rapid Floor Paint PW74 is recommended for use on interior concrete, wood or steel floors and for use over existing epoxy and polyurethane coatings. Rapid Floor Paint PW74 delivers a gloss coating that is surface dry in two hours, with a minimum overcoating time of eight hours and a maximum overcoating time of 16 hours: after 16 hours, the coating should be abraded. The surface should be ready for light traffic after a minimum of 24 hours following the final coat, and heavy traffic after 48 hours. This new product is available in a choice of two, ready-mixed colours: Light Grey and Cardinal Red, with BS and RAL colours available to order.



DT239

Discreet stress protection

The popularity of underfloor heating systems has increased significantly in recent years, as they provide a cost-effective, comfortable and unobtrusive heating solution for millions of homes. However, these systems often cause movement between the subfloor and the floor finish in the form of expansions and contractions. Failing to accommodate for this movement will almost certainly result in cracked tiling surfaces. **Dural UK's** Micro Joint Infill provides discreet stress protection for tiles and natural stone on heated floors. Micro Joint Infill has been specially developed for tiled flooring installations which are laid over underfloor heating systems. It provides effective movement protection for tiles and natural stone on heated floors and complies with UK Building Regulations BS 5385.

Hunter Douglas makes the connection

A gloomy connection between two terminals at Brussels Airport in Belgium has been transformed, thanks to a new state-of-the-art building that features a **Hunter Douglas** customised ceiling. The Connector is a €71m above-ground structure that connects Pier A and Pier B terminals. One of the most striking elements of the new structure is the complex, customised 300C shell-like roof structure. The Hunter Douglas perforated ceiling panels contain an acoustic membrane, which gives them a high degree of sound absorption and they are also detachable, allowing easy access to services and for maintenance. The bespoke 300C ceiling was designed to meet the demanding aesthetic and acoustic requirements of the airport. The ceiling areas are 15m wide, 50m long and are also curved, which makes them fully integrated with the roof.



DT240



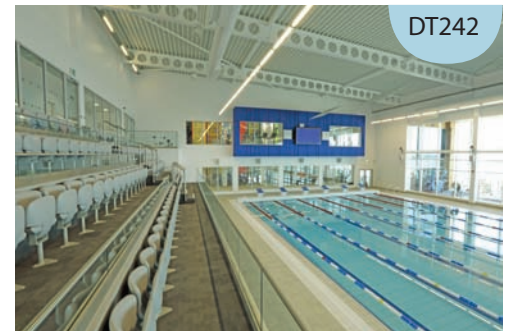
DT241

Mapei supplies Aston Martin

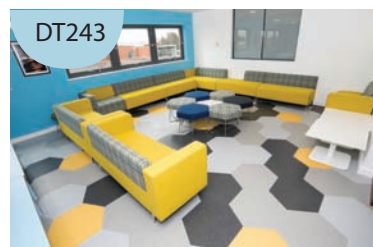
The £4m, 1,950m², two floor, state-of-the-art facility, which is located on The Silverlink, Newcastle, reflects the prestige and exclusivity of the Aston Martin brand and benefits from an extensive range of new and timeless pre-owned Aston Martin models. The spectacular showroom opened in March 2016, unveiling the DB11 model for the first time in the UK. A range of **Mapei** products was specified to complete the 700m² tiling project installed by ceramic tiling contractor, P Plunkett Tiling Contractors, Newcastle. Products specified included Mapei's Eco Prim Grip which was used to prime the power floated concrete once cleaned.

Metsec makes a splash

Light gauge structural steel specialist, **voestalpine Metsec**, has provided invaluable design work and its SFS infill walling as part of the redevelopment of East Riding Leisure Centre in Bridlington. The designs for the leisure complex included a tiered, rendered façade on the upper floor of the building that required twin wall elevations. Metsec designed and supplied dual layer SFS walls to meet the architect's vision for the project. Metsec also utilised BIM to produce 3D models and project drawings, which assisted in the construction of the leisure complex including the distinctive exterior features. Furthermore, Metsec's phased delivery of materials ensured the components arrived on site to suit the build programme, meaning the need for on-site storage was kept to a minimum.



DT242



DT243

School goes geometric with Polyflor

A combination of high performance flooring from **Polyflor's** luxury vinyl tile and sheet vinyl flooring ranges was recently used to create a dynamic, geometric flooring design at Solihull School's brand new Sixth Form centre. Installed by Tamworth-based Gladston Contract Flooring Specialists, Pearlazzo PUR homogeneous sheet flooring was used to produce a hexagonal patterned floor design in the centre's breakout and dining area while Expona Control PUR luxury vinyl tiles create a pathway through the common room area and into the adjoining corridors and staircases. Four shades from the popular Pearlazzo PUR collection (Mineral, Rain Cloud, Charcoal and Sunrise) were selected to create the geometric flooring design, with hexagon shapes created by Polyflor's in-house design service using precision waterjet cutting technology. Available in 24 contemporary shades including neutrals, pastels and brights, Pearlazzo features distinctive tonal chips and pearlescent flakes which are blended and fused into a solid base colour to create a distinctive decorative finish.



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DT21



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DT22



DT244

Wickes expands Setcrete range as demand grows

Wickes is now stocking an extended range of **F. Ball's** Setcrete easy-to-use floor preparation products at its branches nationwide, as demand for the range continues to grow. Setcrete Rapid Set 30, Deep Base, High Performance, Latex and Universal floor levelling compounds can now all be purchased from Wickes branches across the UK, along with Setcrete's acrylic primer and flexible wood flooring adhesive. By using specialist Setcrete products, builders can easily prepare subfloors in the fastest time possible, leaving a lasting finish every time. Setcrete Deep Base levelling compound is one of the most popular flooring products among professional builders today. It is suitable for rapidly building up floor levels and creating a smooth, even surface for the application of floorcoverings or capping with another levelling compound.



DT245

New floor and wall tiles

The new Cocciopesto collection of porcelain floor and wall tiles from **Reed Harris** provides a contemporary take on a traditional material to great effect. This chic and sophisticated new range gets its name from, and plays homage to, the decorative technique of Cocciopesto, which was used in ancient Greece and Rome and saw tile fragments mixed with mortar to create an incredibly durable material. Featuring a beautiful, handcrafted look, Cocciopesto tiles see the markings of terrazzo paired with plain cement to create this eye-catching new range of porcelain tiles. Available in six, on trend, neutral colours of Calce, Portland, Malta, Calcestruzzo, Sabbia and Terracotta, the glazed porcelain Cocciopesto tiles have a tactile matt finish and come in a choice of three styles.

Gerflor steps up to Olympic challenge

We are on the cusp of the biggest sporting event on the planet as the world gears up for the Rio 2016 Summer Olympic Games this August. It is simply the biggest show on Earth. The Rio Olympics and the Paralympics will be the first edition of the games to be held in South America. Rio 2016 will see international flooring and interiors specialist, **Gerflor**, take centre stage as it will be involved in the manufacture, delivery, installation, technical assistance and dismantling of flooring for seven volleyball courts and six handball courts. It is a colossal flooring project totalling over 1,5000m², featuring the company's Taraflex sports flooring product. The volleyball courts will see Taraflex colours ranging from Coral, Teal and Terracotta, with the handball courts enjoying the vibrant arrays of Mint Green, Terracotta and Oak. The Gerflor flooring promises to deliver a stunning, visual spectacle for both players and spectators alike.



DT246

Acoustic ceiling pops up in world famous restaurant

The design of the Noma Pop-up Restaurant at Barangaroo near Sydney in Australia was most unusual - unusual because it was designed to operate only 10 weeks, just like another temporary Japanese one which popped-up for a short time in Tokyo. It was the initiative of famous Chef Rene' Redzepi and his Danish team, designed and built in a few months by the Australian Design and Planning collaboration, led by Lendlease and principal architect Darren Kindrachuk.

The restaurant covered about 500 sqm including the main kitchen, serveries and the dining area as well as an outdoor preparation space and guest lounge. With space for only 56 diners, 27,000 disappointed visitors were left on the waiting-list!

The idea of the restaurant was to interpret Noma's bespoke culinary creations and gave them a unique Australian identity. References to elements of the Australian landscape, as well as Rene's in-depth investigation and sourcing of natural Australian ingredients, also provided the foundation for the underlying design theme of Land and Water. Materially, Land was interpreted by the use of rammed earth, charred/charcoal surfaces and dark colour selections, deep within the restaurant. The notion of Water was suggested in the control of natural light and shadows, glass surfaces and spatial volume expressed on the frontages of the restaurant.



References to Noma Copenhagen and the Danish origins of the restaurant and its Chef were subtly incorporated in the restaurant design. In this context, the review of materials and furnishings included only a limited number of selected Danish sourced options, chosen for their outstanding quality, performance and aesthetics. For example, the dining furniture was designed by

Carl Hansen while the ceilings were lined with acoustic panels from Trolldtekt, widely specified in Denmark and worldwide to reduce noise and create a quiet and peaceful environment.

For samples and comprehensive technical information tel 01978 664255 or visit www.trolldtekt.co.uk

DT23



DT248

Degrees of universal access

One of the world's leading research universities has installed the latest in assistive technology to help achieve its aim of universal access. Trinity College Dublin has seen its student population increase by 500% in the past 15 years, with more than 1,400 under- and post-graduates now registered with its Disability Service. Trinity is also a major tourist site, with over one million visitors every year. Thus, Trinity has invested in a Changing Places

assisted accessible toilet, at the entrance level into the Arts Building, adjacent to the college's respite room, as part of a €120,000 project that also included upgrading all enabled toilets in the building. Supplied by **Clos-o-Mat**, the room offers more space and appropriate equipment for students who need the help of a carer to undertake their personal hygiene. The Changing Places space goes beyond a conventional wheelchair-accessible toilet in that it incorporates additional assistive technology including a hoist, height adjustable adult-sized changing bench, height adjustable basin and toilet.

CHARCON

HARD LANDSCAPING

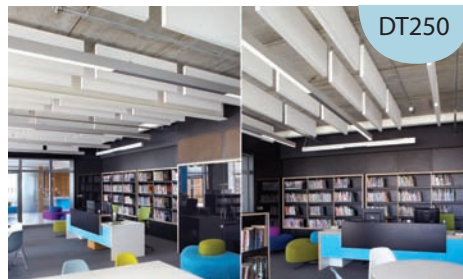
A winning contract

DT249

Charcon, the commercial hard landscaping division of Aggregate Industries, has been awarded the contract to supply Oriam, the new Sports Performance Centre at Heriot-Watt University's Edinburgh campus. The £33m multi-sport centre will provide Scotland's top athletes with state-of-the-art facilities to enable them to compete at an international level. It will also be open to the public and is hoped it will inspire future sporting generations. 1,200m² of Charcon's Andover Washed block paving in Anthracite Charcoal has been specified for the external hard landscaping and will be used to create a contemporary backdrop for the scheme. Offering consistency in colour and texture, Andover Washed allows different patterning effects to be created in adjacent areas. It contains up to 50% recycled materials in the complete mix design for a more sustainable option. Mike Davies, specifications and major projects manager for Charcon said: "Andover Washed Block Paving has been used on a number of schemes thanks to its strong credentials, offering a durable and sustainable solution without compromising on design."

Acoustic control from Knauf AMF

Calthorpe Park is a popular secondary school in Fleet. To accommodate increasing numbers, Hampshire local authority commissioned an ambitious building programme to expand the school's capacity to 1,450 pupils. This contemporary development includes a new, 14 classroom block, library, reception area, technology and art rooms, dining area and a multi-use hall. **Knauf AMF** ceiling and wall solutions were chosen to provide outstanding acoustic control and enable the school to reduce its energy consumption. Thermatex Alpha vertical baffles are fixed to the concrete surface to allow air to circulate freely and at the same time provide acoustic control. Thermatex Alpha baffles are suitable for enhancing acoustics in thermal mass areas or where frequent and unhindered access to services is required.



DT250



DT251

University contract for Novus

Novus Property Solutions will deliver painting and decorating works at the University of Glasgow, the University of Strathclyde and Glasgow Caledonian University to revitalise key buildings over the next four years. The Building Fabric Collaboration project will deliver vital upgrades to the universities and will include building works, glazing and window servicing, joinery, plumbing and heating works. The painting and decorating element of the contract is worth £700,000 per year and Novus has been chosen as one of four contractors to work across the University of Glasgow's historic estate. The painting and decorating work carried out by Novus will be carefully assessed against key performance indicators that will ensure the very highest quality of delivery as well as strict health and safety standards.

Pop-up learning hub for UCL

Portakabin has constructed a pop-up learning hub at University College London (UCL) in just nine weeks from receipt of order to handover. This is to help address the surge in student numbers and was achieved with no disruption to teaching. The two-storey modular building will be in use for two years until significant elements of UCL's major capital programme to provide new, permanent and refurbished teaching space is completed. The new learning hub was installed in just two days ready for the start of the academic year. It would have taken many weeks had the building been constructed using site-based building methods. The learning hub accommodates a lecture theatre for up to 100 students and has three smaller seminar rooms. Portakabin supplied decking around the building, an access ramp, stairs up to the entrance, air conditioning, emergency lighting and data communications.



DT252



DT253

Distech ensures energy efficiency

The New Lanark Primary School located within South Lanarkshire, Scotland has recently been demolished and completely rebuilt to provide pupils with an energy-efficient and state-of-the-art school, fit for the future.

The new building features a sophisticated building management system (BMS), which incorporates the cutting-edge **Distech Controls ECLYPSE** Connected BACnet/IP and Wi-Fi Product Series. The system has been installed by specialist BMS system integrator, Environmental Energy Controls. The BMS comprises two Distech ECLYPSE control panels incorporating three ECLYPSE ECY-PS24 24v power supplies, two ECY-S1000E BACnet/IP Server 320 IO (unlimited Modbus MSTP Router), eight ECY-8UI6UO I/O modules, one ECY-6DI I/O module and two HORYZON R4 4" touchscreen displays. The new school building has an internal floor area of 383m² and has three classrooms, activity areas, a dining/gym hall, community kitchenette, staff areas as well outdoor space for the pupils to play and learn in.

designing classrooms *to inspire*

*What does it take to plan classroom spaces that inspire learning and encourage engagement between teachers and pupils? ABC+D speaks to **Ian Hewitt** of Innova Design Solutions to get an insight into how cutting edge design is transforming education...*

When you look at the very latest school classrooms – how do facilities compare to education as you knew it?

Where rows of wooden desks once dominated rigid, badly lit rooms and students craned their necks for a view of dusty illegible chalk boards – state-of-the-art LCD screens, sleek hideaway white boards, subtle storage and intelligent, flowing layouts signify a new generation of education that I certainly never saw as a student.

Far from the classroom I experienced, the classroom of today is multi-functional, engaging and unafraid of technology to aid learning.

As a designer, the ultimate goal is to create a better, more effective learning environment that holds attention and gives teachers a platform to engage.

This is achieved by ensuring classrooms give teachers and pupil's permanent visibility of one another, creating spaces that adapt for individual and group learning exercises and encouraging interactivity in order to make use of some of the fantastic modern resources that are available to teachers.

It is amazing how far modern classrooms have come and it is a pleasure to be a part of a genuine movement that is helping to improve learning.

How did you get into designing school interiors?

Despite the fact that it only feels like yesterday that I donned my cap and gown, I left Liverpool Hope University with a Bachelor of Design 18 years ago having studied a product design degree course.

Starting out predominantly designing kitchens, I also spent six months as a design engineer for an indoor play company, which was fantastic experience as it offered full creative license to design engaging spaces for youngsters.

This transitioned me neatly into the education and commercial interiors sector where I joined Innova eight months ago.

What does an average day at work entail?

The brilliant thing about my job is that no two days are ever the same. From libraries to school science labs, design technology and food tech rooms – all of the projects I'm involved with are interesting and varied.

Newly designed, manufactured and installed food technology classroom at Heolddu Comprehensive School



I'd be interested to see how long it takes for VR and augmented reality to become common place in the classroom...

*Ian Hewitt
Innova Design
Solutions*



Newly designed, manufactured and installed design technology classroom at Heolddu Comprehensive School

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The scope of my job is equally varied. I am involved in every aspect of the process from the initial design concepts, production and manufacture to polishing and honing the final layout.

How do you approach a school design brief?

Every school, department, teacher and pupil is different, which means every brief has its own very specific set of requirements.

Once the project manager has explored requirements, needs and, equally importantly, the wants of the brief with the client, we use this information as a framework to build upon.

We work in accordance with the latest Building Regulations, health and safety legislation and design trends, to develop classrooms that are inspiring, cost-effective and highly functional. I always aim to work to create a space that exceeds expectations.

How much room is there for creative manoeuvre?

It tends to vary from project to project. Some classroom designs have a long list of technical specifications to meet while other briefs are very open.

Clients approach companies like Innova expecting a room to be transformed into a new and exciting space, whether it's a new build or refurbishment, fully turnkey or furniture only.

So creativity is evident in all design work to a lesser or greater extent. Everything from the consultation, to the design, manufacture and installation involves creativity and freedom for design solutions.

What challenges and hurdles do you regularly encounter?

All rooms have a finite area, making best use of space one of the biggest recurring issues.

Personally, I am proud to say that the sector is rising to meet the challenge of this lack of space which is increasingly coupled with growing class sizes.

Responding to these challenges creatively is genuinely driving innovation in the sector as designers find ever more intelligent ways of maintaining flows.

As you might imagine, health and safety is also a hurdle. Finding creative solutions to meet requirements is also raising the bar of excellence in classroom design.

How do you think designers can best help clients achieve the brief?

Designers need to bear in mind that aesthetic is only part of the job. Important yes, but critical – no. Form, in the context of classroom design, must go hand-in-hand with function.

As practical spaces, there is a need to create a space which is not only aesthetically appealing, but is also practical for teaching and learning as well as being durable in a demanding environment.

I always design the space and provide plans, elevations and 3D visuals to the client to help them visualise the space prior to commitment and manufacture. That way they can make changes and adjustments to the design.

If I create a room that operates effectively, meets the client's needs and looks great then I feel I've done a good job.

What in your opinion is the biggest recent development in classroom design?

The biggest influence in classroom design is the integration of technology into the classroom environment.

Children nowadays grow up with a dummy in one hand and touch tablet in the other. The challenge for designers (and indeed adults) is to try to keep up with it and harness it to improve learning.

Virtual reality is the next big thing. I'd be interested to see how long it takes for VR and augmented reality to become common place in the classroom – but believe me – it will happen.

a new model of mental healthcare *at St Bernard's Hospital*

Thames Lodge, the new £60m Medium Secure Unit (MSU) at St Bernard's Hospital opened in February 2016. It sits alongside the existing Medway Lodge Regional Secure Unit and Wells Adolescent Unit with one single entrance to create the Three Bridges Medium Secure Campus. ABC+D discovers more....

David Morley Architects designed the 8,000m² adult men's unit in a series of five fingers to allow for a significant new area of secure garden space to be created between the fingers, including five ward gardens, a large central communal garden, a multi-use games area, horticultural therapy unit, planting, seating, exercise machines and outside table tennis tables. In addition, two roof gardens were designed with seating areas and trees. All of the 80 bedrooms within Thames Lodge benefit from views across the gardens.

Other features incorporated into the building to enhance the wellbeing and recovery of service users includes an on-site primary healthcare suite that provides a range of clinics including GP and dental services to help manage their physical health plus a fully equipped gym to encourage service users to lead healthier lifestyles, which is an important part of the recovery process.

Vivienne Mowatt, redevelopment programme director at West London Mental Health NHS Trust explained: "The Medium Secure Unit has been designed to be both safe and inviting, creating a therapeutic environment in which patients can recover and prepare to move on. The new unit contains five wards, all with different colour schemes chosen by service users, which will help people find their way around the new unit.

The design incorporates staff work areas at the heart of the ward to accommodate multi-disciplinary team working, as well as private areas close to the wards

"As part of their recovery journey, patients will be asked to participate in at least 25 hours of meaningful activity

a week. To help them do this, Thames Lodge houses a community hub – the Riverside Centre, also designed by David Morley Architects. This central zone offers a range of activities which will provide people with numerous work and training opportunities, all aimed at helping them to manage their condition and return to the community."

There is also an education team at the Riverside Centre that is able to support service users gain qualifications, so when they go out into the community they are better prepared to access real life work or ongoing education.

High Street functions such as a bank, café, shop, barbers and workshop, have been included to normalise life for long-stay service users. Art has been integrated into the building in the development of the colour scheme and wayfinding strategy. Also, work by an artist developed in consultation





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with service users has been used throughout the building. In addition, the design incorporates staff work areas at the heart of the ward to accommodate multi-disciplinary team working, as well as private areas close to the wards.

Additionally, two child family visiting rooms have been included in an area away from the ward, to allow patients



to meet with their families including their children. The rooms have been designed to be friendly, warm and inviting and incorporate art, an outside view, a kitchenette and baby change facilities. They also contain a TV, games consoles, different games, puzzles and books for children of all ages.

Thames Lodge achieved a BREEAM Excellent status and was designed with the capability to be connected to a site-wide energy centre in the future. A ground source heat pump and PV panels were also installed providing renewable energy sources.

In short, Thames Lodge's new ways of working, modern fit-for-purpose building, specially selected equipment and calming outdoor spaces are already benefiting service users, as voiced by a service user on Berry Ward: "There is enough room for your mind to settle, you can go to your bedroom to turn your TV on or read a book; it's very clean and spacious and safe. The garden looks magnificent, in the summer you can imagine lying down and finding a piece space for and quiet. It's a good start for anyone that wants to change their life around."

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DT24

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Children's hospice opts for Forbo

When Naomi House Children's Hospice underwent a substantial refurbishment, it was in need of a stimulating and calming environment for children that also addressed key areas

such as infection control. David Golland of Building Surveying & Project Management who managed the partial demolition and rebuild of the hospice, said: "I have worked with **Forbo** on many projects over a long period of time so I have a good relationship with them. They were very helpful in assisting in the selection of appropriate products." A calming pattern has been created in an area used by visiting parents using Flotex Vision. David said: "The cobblestone patterns are in a quiet seating area where parents can take a break and enjoy the views of the garden. The area has full-height glazing so the cobblestone effect flooring brings the outside in. It is fully washable and resilient but has the look and feel of carpet."

Deb raises UV exposure awareness

Five outdoor workers are diagnosed with skin cancer every day in the UK yet 90% of skin cancer deaths could be prevented if our exposure to UV rays were controlled. **Deb** – supplier of skin care products and hand sanitising solutions – is proactively campaigning to raise awareness of the risks associated with prolonged UV exposure to outdoor workers, specifically those who spend more than seven hours outside as part of their job. The Deb Stoko UV Protection Range offers a solution for anyone outside in the warmer months as it covers all bases, protecting against harmful UVA and UVB rays as well as the artificial UVC rays created by industrial processes such as welding. The Stokoderm Sun PROTECT range is available as 30 and 100ml tubes, 200ml spray and 1L cartridges and comes in SPF 30 and SPF 50 formats.



Twin rail refurbishment

Yeoman Shield's new Guardian Twin Handrail was installed as part of the ward refurbishment project recently undertaken at Barnsley Hospital, South Yorkshire. A 350+ bed hospital built in the 1970s and serving a quarter of a million people in the

Barnsley area, the hospital demands a constant regime of maintenance throughout its premises. Maintaining its high standards, Barnsley Hospital has improved the surroundings and facilities in six of the hospital wards, including the discharge unit, female trauma and elective orthopaedic unit. As part of the refurbishment project, Yeoman Shield was employed to remove the old bump and handrails and replace them with the dual-purpose Guardian Twin Handrail to corridors and waiting areas throughout the six wards. The twin handrail was supplied with a 50mm diameter PVCu upper handrail for support to those who need it and a lower 125mm deep protection rail which, standing slightly forward of the handrail, offers protection to both the wall décor and the handrail itself, minimising repair and replacement.

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DT25



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ECOStyle Holland takes top slot *in global BREEAM awards*

A distribution warehouse set at the heart of an ambitious business park in Oosterwolde, Holland has taken the top award in the industrial category at the 2016 BREEAM Awards. The ECOStyle warehousing and logistic building achieved a rating of 85% outstanding for world-class sustainability. ABC+D finds out more...

The 52,000ft² new build is the centrepiece of an innovative business development – the Ecommunitypark in Oosterwolde, northern Holland. It hopes to create a sustainable work environment where companies collaborate, share knowledge, create synergy and generate added value for people, nature and the environment. Its underlying ethos is that of integral sustainability linked to socially and ecologically responsible entrepreneurship.

Developed by the Zethoven Bouwplan Groep on behalf of client ECOStyle, the defining principle behind the building was to synergise with the Ecommunitypark core values. ECOStyle produces a range of environmentally responsible

natural pesticides and organic fertilizer products and the warehousing facility is part of an expansion plan by the Zwart Family.

With the BREEAM certification serving as a standard for the Ecommunitypark, the park itself has a five-star Outstanding BREEAM-score as well, there was a notable desire to apply the same philosophy in the construction of the new ECOStyle buildings.

Zethoven Bouwplan Group designed a building that is completely self-sufficient, equipped with underfloor heating, powered by six air-to-water heat pumps. It has no connection



This solar park generates twice the electricity needed to power the warehouse itself, so overcapacity is used in other buildings in the Ecommunitypark
BREEAM



DT265

to the gas mains and electricity is generated by 13,000ft² of solar panels covering the entire roof. This solar park generates twice the electricity needed to power the warehouse itself, so overcapacity is used in other buildings in the Ecommunitypark. Together with excellent insulation grades (>6.0m2K/W) in the roof and walls, the carbon dioxide emissions are dramatically reduced and the use of fossil fuels reduced to zero.

The warehouse has its own sewage treatment facility, purifying the sewage water through a biological process. After the water has been treated, it goes directly into the natural water feature situated in the centre of the Ecommunitypark. Process water and water used for flushing toilets is recycled from rainwater. The base of the building is equipped with gabions that provide natural hiding places for birds and insects and help increase the biodiversity of the area around the building.

The lighting plan focuses on energy saving and creating a safe and pleasant working environment. The building is illuminated by LED downlights and special LED light lines that are automatically turned off when there is no movement. The combination of the LED lights and building management

system means the lighting system is over 70% more energy efficient than traditional fluorescent lighting. ECOstyle has opted for several measures to ensure all employees have a safe and healthy working environment. Air filter installations filter out fine dust and large windows at the end of every aisle provide extra daylight and give the people working inside a connection with the exceptional natural environment outside.

Speaking about the BREEAM award developer, Zethoven Bouwplan Group said: "Winning the BREEAM Award is a beautiful recognition for the unique features of the building and the Ecommunitypark. Anne Jan Zwart's ideas for both this environment and the ECOstyle premises were very ambitious, and BREEAM was the best partner for providing guidance during the process, as well as offering positive recognition afterwards.

It helped us make the best choices in developing state-of-the-art buildings, following basic principles regarding maximum integration into the environment and stimulating ecology, sustainability and health and safety for the ECOstyle team. These principals were best reflected in the BREEAM certification and the award is further validation of this."



DT270

A natural finish for Natural Bed Company

Luxury vinyl tiles from **Polyflor's** Affinity255 PUR flooring collection were recently used to create a herringbone design floor at Natural Bed Company's showroom in Sheffield. 290m² of Affinity255 PUR vinyl flooring in the Seasoned Grey Oak design was installed in the shop floor area by Sheffield-based contractor, MG Flooring, on this showroom project managed by Structural Interiors and designed by Studio Gedye architects. Whole planks of the grey, wood-effect luxury vinyl tiles were laid in a simple yet eye-catching herringbone pattern which complements the store's pared-down,

Scandi style interior. Caro Whiteside from Natural Bed Company commented: "We're delighted with the finished look of our new showroom. Our Affinity255 herringbone floor looks so stylish and was quick to install, meaning that our store was ready in time for the official opening."

Formica Group has retail covered

Providing beautiful and functional surfaces, the **Formica** Collection suits all requirements of retail design, where practicality, durability, high-end and long-term visual appearance are key. From beauty and cosmetics, to fashion and supermarkets, the Formica Collection possesses style, modernity and effortlessness. With a total of over 600 decorative laminate solutions, it is suitable for an integrated approach to interior retail design. Among the comprehensive palette of 120 colours, ColorCore is suitable for use in high traffic areas, offering vast potential for stylish interiors, enhanced by special inlay effects and sharp edging details. Incorporating texture, the Collection captures the authenticity of fabrics, natural and man-made, with interpretive weave pattern Twill decors, marbles in True Scale, metal and engineered stone patterns.



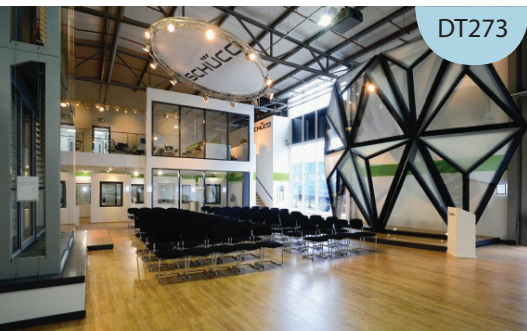
DT272



DT271

Colourful column casings

Contour has undertaken the design, manufacture and installation of a series of vibrant aluminium column casings, at the historic Kirkgate Market in Leeds city centre. The installation formed part of a major £13.7m refurbishment of the market, commissioned by Leeds City Council. A key element of the market's transformation was the use of brightly coloured walls and fixtures in the 1976 Hall, including the 4.5m high column casings encircling floor to roof I beams, positioned above four catering units in the hall. Critically, the casings could not sit on the roofs of the units nor could they be suspended from the roof. Contour developed a bespoke system of attaching the casings to the I beams, but which did not entail drilling or affecting their integrity.



DT273

Network Centre revamp

Schueco UK has announced that the refurbishment of the Schueco Network Centre in Milton Keynes is now complete. The revamp – designed to improve the centre's facilities even further for architects, main contractors, Schueco network partners and their customers – represents a major capital investment for the company. A number of new exhibits have been installed, the most significant being the massive Parametric façade that was constructed for the BAU Exhibition in 2015. A hugely impressive piece, the UK Network Centre is the only permanent exhibition space in Europe large enough to accommodate it. Visitors will also find that the systems on display have been rearranged and that new products have been added.

Office complex completed in ten weeks

A new office complex has been delivered by the **Portakabin Group** after just ten weeks on site following an investment of around £100m in new paper manufacturing facilities at Smurfit Kappa's Townsend Hook paper mill in Kent. The scheme was constructed off-site using a Yorkon building solution to bring the new facilities into use as fast as possible and allow the relocation of managers and engineers from a number of old brick buildings into a purpose-designed, modern and centralised office complex. The single-storey building was manufactured and partially fitted-out at the Portakabin Group's manufacturing centre in York and craned into position in just a few days over two phases. The L-shaped building provides both cellular and open-plan offices, a canteen and staff welfare facilities such as showers and lockers.



DT274

DT275



Improving energy efficiency in Wales

Rinnai is providing a new heating and hot water solution to offices in Merthyr Tydfil, South Wales. CST Renewables was keen to get to grips with installing a new system. This included a bespoke boiler and hot water heating package. The first UK installation of the Rinnai system was at a large office building where CST had been called to assess the best energy-efficient replacement for a failing forced draught, flued modular boiler set up. The old system was low efficiency and costing the client, a property leasing company, a substantial amount in annual repair bills. The building is rented to a variety of organisations and businesses such as call and administration centre businesses. Mark Hillier-Rees of CST said: "It was obvious the site needed to move on to something more energy efficient. We removed the old boiler and replaced it with two new Rinnai boilers on a cascade system. The redundant flue was removed and we put in the Rinnai co-axial flue. This new Rinnai system is highly efficient and, due to its lack of moving parts and easy maintenance, has very low annual service costs."



DT276

New Grafias industrial LED range launched

Robust LED lights suitable for demanding industrial and commercial applications don't have to look functional and boring and the new OMS Grafias LED range from **Minimise Energy Lighting Technologies** proves this point. Available in recessed, surface mounted or suspended formats, Grafias has a hexagonal honeycomb design that instantly enhances an LED lighting scheme above the purely functional while delivering very high lumen outputs of up to 68,800. Equally at home in high bay manufacturing, warehouse, sports and leisure and retail environments, Grafias LEDs deliver high quality lighting, have a very high efficacy rating of up to 123lm/W ensuring excellent efficiency and offer a strong aesthetic appeal. These efficiencies have been achieved by combining state-of-the-art LEDs and associated electrical components with cleverly designed PCBs and high performance optical systems. Grafias' flexible mounting options and range of lumen packages make them suitable for a variety of applications.



DT277

A cutting-edge product

Thermal break solutions specialist, **Armadillo**, has provided a thermal bridging solution for Aldi's distribution centre in Cardiff, part of a £109m UK investment programme. Armadillo was appointed by engineering firm, Craddy Pitchers Davidson to insulate the distribution centre's 1,000m² cold store room, used to stock thousands of frozen and chilled products before distribution to UK Aldi stores. The manufacturer's product, Armatherm 500, was installed directly under steel column bases which bridge the floor slab insulation. Support columns pass through the non-load bearing slab insulation to warm ground beneath, short circuiting the insulation barrier. Armatherm 500 is an inert, ultra-high density closed-cell polymer which offers high load capacity coupled with outstanding thermal performance.

Saracen expands its finance portfolio

Saracen Interiors has completed a contract to fit out corporate finance house, Clearwater International's offices on Chandos Place, in the City of London. Based on designs submitted at the competitive tender stage, the work follows on from the successful handover of an earlier redesign project, completed by the workplace consultant for Clearwater in 2015. Work started in March and included the reconfiguration of meeting rooms, including the creation of a centralised and circular meeting room built from curved glass partitions to reflect the company logo, the installation of new floors and ceilings, new furniture, the design and fit of an open-plan kitchen and breakout area and the installation of a new air conditioning system. Joint managing director of Saracen Interiors, Michael Page commented: "It's great to be able to now add Clearwater to our roster of regular clients and we look forward to working with the company again going forward."



DT278

DuPont™ Tyvek® and DuPont™ AirGuard® tick all the right boxes for a new modular office block development by Extraspaces Solutions



DuPont building membranes have been chosen to enhance efficiency, both in construction and performance, for a new modular office block project for Pramerica by Extraspaces Solutions in Donegal

Extraspaces Solutions specialises in meeting the challenging demands of modern construction, especially when space is at a premium, by offering versatile, cost-effective and highly practical modular systems. One innovative new project is a 20 million Euro office development for Pramerica Systems Ireland Ltd in Donegal, consisting of 300 hi-tech modules – with the potential to increase this number if needed 420.

Each three-storey block is 51m x 24m and each steel-frame module measures 12.2m x 2.9m. Designed to achieve specifications above regulations, each unit aims for maximum efficiency and benefits from the proven performance of DuPont building membranes. The advanced breather membrane Tyvek® Soft is used as the external weather proofing shield (and has been specially branded with the Extraspaces Solutions logo) while the high-performance air and vapour control layer DuPont™ AirGuard® Reflective enhances the airtightness of the structure.

DuPont™ AirGuard® was chosen, according to Stevin Tedstone of Extraspaces. "For its overall performance as well as being the only reflective AVCL with both a warranty and a BBA certificate. We have long experience of working with the DuPont™ Tyvek® which gives us peace of mind. What's more, when architects and professionals know we are using DuPont membranes, it ticks all the boxes as it guarantees all the specs and paperwork data will be in place."

For more information about DuPont™ Tyvek® in the UK please visit: www.construction.tyvek.co.uk or call 01275 337 660 (087 922 2740 in ROI)

DT27

PENDOCK BOOSTS RETAIL ENVIRONMENT AT BOOTH'S



When an ambitious and enterprising grocer said in 1847 that his aim was "to sell the best goods he could buy in shops staffed with first-class assistants," it is not perhaps surprising that this philosophy remains at the heart of a business that has survived two wars and several recessions. In fact, Booth's has just relocated one of its stores to Poulton-le-Fylde – and the supermarket's ethos to be the very best can be seen reflected in the selection of high quality column casings from Pendock for the interior fit-out. Ordinary steel stanchions to support the roof at Booth's were simply not considered to offer the right impression and the main sub-contractor – Morecambe based LN Joinery (NW) Limited - was tasked with sourcing columns that were not just functional, but as attractive to look at as its food.

The contractor immediately turned to Pendock Limited, knowing that the specialist supplier would come up with a solution that could offer both style and substance to the new store. Pendock supplied nine column casings to surround the standard structural steel sections: three oval in appearance and the other six circular. For continuity of style, both types are clad with attractive brushed finish aluminium bonded to the plywood casings up to 1m in height, while above this a RAL 7037 Dusty Grey shade of the company's Mouse Laminate was specified, rising to ceiling height.

A 15 mm shadow gap marks the junction while top hat feature joints with an aluminium insert rise up the full length of the casings. The 150 mm high toe and 160 mm head collars are also finished in the Dusty Grey laminate.

Pendock's column casings are all produced to order for clients across a variety of sectors including hotels, leisure, hospital, education and retail. They are available with a very wide selection of finishes and can incorporate lighting or other services.

FOR FURTHER INFORMATION

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DT28

the growing importance of false alarm management

*False fire alarms are a huge issue in fire safety management today. They are costly in financial terms and can seriously impact the efficacy of any building's fire planning. **Advanced Electronics** discusses the solutions on offer that have been designed to reduce such false alarms...*

The latest developments in fire system technology offer a number of solutions to minimise false alarms. The key is to verify whether there is a real fire before the next stage of the building evacuation strategy commences.

False alarm reduction should be considered as part of the risk assessment, before any specification is written. Each building will have different users and specific circumstances that may require unique verification, investigation and evacuation processes. All of this can occur under one roof and over multiple floors, so flexibility is key.

The industry has taken two main approaches. One is focused on detector head technology that looks at reducing incorrect signals in the heads themselves, the other is an approach that focuses on signal processing and decision making in the fire control panel. Some forward-thinking manufacturers are combining the two into approaches to combat the causes of false alarms from multiple directions.

The development of intelligent detectors, the most sophisticated of which use smart algorithms to differentiate between real fires and false signals, perhaps caused by steam or cooking smoke, has accelerated in recent years.

Detectors can also be used together or in other modes to reduce false alarms. For example, multi-sensor detectors can be switched between heat and smoke in

order to confirm a signal. Several detectors can also be combined, for example using double knock or coincidence to confirm a genuine signal.

Automatic, addressable fire systems will analyse detector signals and then, if the signals match expected criteria, will activate a range of verification and confirmation procedures. A good fire system can do a huge amount automatically and much can be achieved with minimal human intervention. However, one of the key ways to reduce false alarms is to involve people and, in order to make this effective, some manufacturers have introduced dedicated false alarm input devices.

Some manufacturers are introducing trained residents into the verification equation with buttons, either intelligent loop devices or simplified repeater inputs, that allow the verification time on a system to be extended by the occupant if they believe the signal to be false in their area, for example

False alarms remain a problem but the industry has the tools to radically reduce them and their impact...
Advanced Electronics





DT279

from burning toast. If the signal clears, the system returns to normal but, if it persists beyond a pre-set verification time, the system will go into full alarm.

Involving people, even trained individuals, means failsafes must be strong. Different manufacturers have adapted varying solutions but, in general, buttons of this type should only be pressed once before a system reset, and times need to be programmable. If an alarm signal has been verified by the panel, or if a manual call point is activated, the system should enter a full fire alarm condition immediately. Equally, if a preset number of areas are in verification (ie. detecting potential fire signals) the system should go into full alarm. The benefits of involving the residents of an apartment or student accommodation building are, however, hard to ignore.

Another key aspect to consider when specifying a false alarm management system is the ease of management. Can the system be divided precisely into different areas? Can points be managed singly or grouped, as in an apartment and is it easy to programme and install? On big sites wiring and

configuration can add much complexity and cost. Equally, priority should be given to selecting a system that is acceptably intuitive for staff and designated users to operate. The ability to share information in dynamic fire conditions has also developed rapidly, for example some touchscreen displays are a key tool that can make it easier to identify the location and status of an alarm.

Careful consideration should also be given to how the system will be monitored, serviced and maintained. There are a growing number of solutions that allow fire systems to be remotely monitored and controlled over the internet, which means an engineer can arrive with an agreed plan and all spare parts required, minimising disruption to the building's users.

In summary, false alarms remain a problem but the industry has the tools to radically reduce them and their impact. This will certainly involve trained professionals at the design and specification stage and possibly the trained residents of a building.



DT280

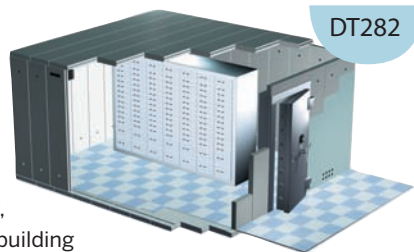
Flagship data centre installs Advanced fire systems

To protect Hydro-Québec's new data centre being built near Montréal, intelligent fire systems manufacturer, **Advanced**, has teamed up with Roberts Fire Protection (a division of Vipond Inc.) to provide fire protection to the installation. The world's largest hydroelectric producer, Hydro-Québec generates over 99% of its electricity from water. Data centres are dedicated

spaces where companies can keep and operate their ICT infrastructure. The environment is strictly controlled in terms of temperature and humidity and facilities usually include power supplies, backup power, chillers, cabling, fire and water detection systems and security controls. After a competitive tender, Advanced's Québec partner, Roberts Fire Protection, was selected to provide over 200 smoke detectors, 120 horn strobes, 40 pull stations, 12 Vesda units, three network panels, a BMS interface, an annunciator and other ancillary equipment, all controlled by and linked to three Axis AX fire panels.

Securikey works the room

Securikey has made modifications to its range of Modulprim security rooms. The Modulprim is a bespoke modular vault solution for both new builds and existing buildings and is a convenient and cost-effective method of adding a high security strong-room to a building. The Modulprim offers a complete storage facility for money, documents and pharmaceuticals and is adaptable to most building specifications, even those with limited space or those located on upper floors. This impressive level of adaptability has now been increased further with the introduction of new, lighter-weight materials to offer even further convenience and more storage space. Securikey's Modulprim components have now been adapted, using new materials, to provide further options, ease of installation and accessible space. New lightweight panels combined with reduced steel work decrease the weight of the original Modulprim by up to 25%.



DT282

DT281



Small but perfectly formed

Fire door alarm manufacturer, **Hoyles Electronic Developments**, has added a new Exitguard to its range. Designed for use with an intruder alarm system, the EX125iS-H, with its small slimline footprint, loud 108db sounder and compact steel case, solves all types of door security issues and is particularly suited to environments where physical damage may occur. The EX125iS-H monitors a standard supervised loop contact for alarm and tamper conditions. As well as indicating locally, the alarm, tamper and isolation status can be signalled to an intruder alarm panel via two resistor biased outputs. Selectable resistors on board allow for compatibility with key intruder panel manufacturers' systems.

Natural History Museum protected by Advanced Systems

The world-famous Natural History Museum in London and its more than five million annual visitors are being protected by intelligent fire panels from Advanced

Often called the Cathedral of Nature, the Natural History Museum is renowned for its collections of dinosaurs and ornate architecture and is widely recognised as the pre-eminent centre for natural history and related research. The Museum is the third most popular in the United Kingdom and its irreplaceable 80 million strong collection is of global importance and includes many collected by Charles Darwin.

Located in Kensington's Museum Quarter, it was established in 1881. Its Grade 1-listed building comprises seven blocks, including the original Waterhouse Building, the Earth Galleries, the Palaeontology block and the twin Darwin Centres.

At the heart of the active fire protection for the Museum is a network of 24 MxPro 5, intelligent, multiprotocol panels from Advanced, plus remote control terminals, BMS interface and a bespoke PC based graphical user interface. The network was designed, configured and commissioned by Pacific Security Systems, a long-time partner of Advanced.

Kirk Short, spokesperson for Pacific, said: "Advanced systems are well known for their performance, quality and ease of use. From our point of view, the MxPro 5 panel stands alone in the market for ease of installation and

maintenance and for network stability and speed. We needed a system that is simple to operate, with the features the end user requires on a daily basis, while also offering backwards compatibility with some of the loop devices that are already installed at the site."

MxPro offers the market more choice and flexibility than any other system. It includes two panel ranges, the EN54 2,4 & 13 approved MxPro 5 and EN54-2&4 approved MxPro 4. It offers four protocols (Apollo, Argus, Hochiki and Nittan) and a completely open installer network, backed up by free training and technical support. MxPro 5 panels are backward compatible with existing MxPro 4 networks and include a host of features including TouchControl touchscreen remote control terminals with Active Maps and AlarmCalm false alarm management.

MxPro 5 panels can be used in single loop, single panel format or easily configured into high speed, 200 panel networks covering huge areas. Advanced's legendary ease of installation and configuration and wide peripheral range make it customisable to almost any application and it is found in challenging and prestigious sites around the world including western Europe's tallest building, The Shard.



Rob Kemp, Advanced Sales Manager for the South of England, commented: "We are proud to have our British-made products installed in such a venerable institution. Advanced is renowned for making cutting edge products and this is the type of building where the quality, ease of use and flexibility offered by MxPro 5 panels offer tangible benefits."

Advanced is a world leader in the development and manufacture of intelligent fire systems. Its legendary performance, quality and ease-of-use sees its products used in prestigious and challenging locations all over the world, from single panel installations to large multi-site networks. Advanced products include complete fire detection systems, multiprotocol fire panels, extinguishing control and fire paging systems.

More details can be found on the website at www.advancedco.com

DT29

SE Controls helps keep Dragon's fire under control

Dragon Mart 2, the recently completed 175,000m² extension to Dubai's massive Dragon Mart Chinese trading hub, is using control solutions and more than 1100 actuators from SE Controls as part of the fire safety and smoke ventilation system at the 1.2 kilometre long retail centre.

Designed by Dubai-based, Dar Al Handasah, the two-storey Dragon Mart 2 mall forms part of the International City development by master developers, Nakheel, and in addition to being the largest trading hub for Chinese products outside mainland China, housing more than 1100 shops, it also includes a nine-screen cinema complex, two hotels and 1120 apartments.

Throughout the mall, a series of openable skylight panels not only provide natural light into the shopping area, but also act as smoke vents to keep escape route clear of smoke should a fire occur.

The SE Controls' system includes; 1160 TGLA 24 65 linear actuators, which are used to open the skylight panels and 24 SECO N 24 40 chain actuators for opening vertical top hung windows, which are triggered by 44 OS2 30A controllers once they receive a signal from the mall's fire alarm system.

In normal operation the skylights remain closed until triggered and are then opened fully by the TGLA and SECO N 24 40 actuators, which have stroke lengths of 1000mm and 600mm respectively. Both types of actuator are 24 Volt



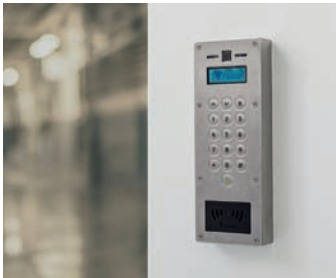
DC units and are tested to EN12101-2. The fan cooled OS2 30 controllers also incorporate a battery backup to maintain operation in the event of a mains power failure.

SE Controls' Middle East project manager, Madhava Prasad, commented: "We have a tremendous amount of experience and expertise in retail smoke control and natural ventilation solutions in projects across the globe, so we can

use this ability to support designers, fire consultants and engineers and ensure the systems are effective and help save lives by keeping escape routes clear of smoke."

Further information on SE Controls' products, solutions and projects can be obtained by visiting www.secontrols.com or calling +44 (0) 1543 443060.

DT30



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DT31

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DT32

products fire, safety & security

DT283



Women's hazardware range wins award

Arco is celebrating its success at this year's Safety and Health Expo. Not only did Arco debut the industry's most comprehensive hi-vis collection designed for women on the catwalk at this year's show, the company also won the Professional Clothing Award for Best Stock Design. Entries were judged by a panel of independent experts drawn from senior operators in product technology and innovation and in academic fields of textiles, fashion and design. Entrants had to provide evidence of excellence

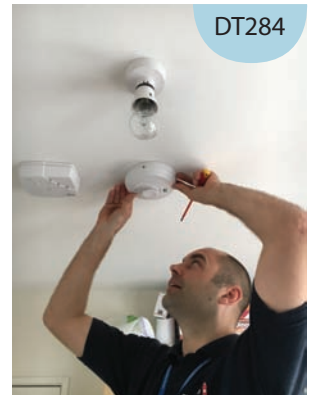
in product development or services and were encouraged to provide supporting evidence. Richard Sansom, product and procurement manager at Arco said: "Our women's Hi-Vis Hazardwear range offers comfortable, practical alternatives to ready-existing ranges that do not cater to a woman's shape and size."

Aico ensures safety in Plymouth

Plymouth Community Homes has begun a programme to replace its smoke alarms with **Aico's** new 160e Series of alarms. The alarms will be fitted to 15,000 properties over five years. Plymouth Community Homes, rated as one of the top 25% housing associations nationally, is a long-standing Aico customer. It has installed Aico's mains powered smoke and, more recently, Carbon Monoxide (CO) alarms to protect tenants over many years.

The existing optical smoke and heat alarms are reaching the end of their lives and will be replaced with the 160e Series, Aico's new premium range. Building on the success of its 160RC predecessor, 160e alarms provide improved performance in response time and resistance to false alarms – all in a modern, sleek design – while maintaining the same easi-fit footprint making it simple to upgrade.

DT284



DT285



A supporting role at the new Tate Modern

Some say it's the small things that make the big things count and, in the case of Beckenham-based **European Springs & Pressings** and the Tate Modern, this couldn't be more true. James and

Taylor, which works on creating some of the most exciting looking buildings in the UK, approached European Springs & Pressings to develop a spring mechanism that would form part of the security supporting an anti-climb zone on the new Tate Modern. John Champion, design director at James and Taylor said: "The team at European Springs & Pressings could not have been more dedicated to delivering our brief. We appreciated it was a really tight turnaround but they were fearless and achieved the near impossible – securing high numbers of an exceptional quality of product and in a matter of days too."



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DT35



DT286

A roaring success for Romag

Visitors to the new £5.2m Land of the Lions enclosure at ZSL London Zoo will benefit from an improved viewing experience thanks to high performance anti-reflective glass supplied by specialist manufacturer, **Romag**. More than 60m² of Romag's new AirGlaz toughened laminated glass has been specified to provide transparent safety walling for the viewing sections of the 2,500m² enclosure, which will be home to a pride of Asiatic lions. The new installation has been designed to provide a close encounter visitor experience where the public will be able to see the animals easily

and up-close. The toughened laminated glass will maintain its transparency and clarity while being protected by a structure strong enough to withstand the weight and power of large cats such as lions. The AirGlaz construction was designed specifically for the enclosure to combine anti-reflective properties with maximum strength together with high levels of safety and security.

Fall protection takes off with Virgin Atlantic

Safesite has provided Virgin Atlantic with a collective roof edge protection system that ensures optimum rooftop safety for maintenance and inspection teams and complies with all relevant Health and Safety regulations. Work began in December 2015 to provide a continuous, co-ordinated roof safety system to the roof perimeter of the building and surrounding the rooflights, enabling safer roof access. Norland-based commercial property adviser, CBRE Group managed the project and contracted Safesite to specify and install a full guardrail scheme. After removing all existing guardrails, demarcation bases and chain, Safesite installed 900Lm of raked and standard KeeGuard systems.



DT288



DT287

Bespoke fire systems

Fire Design Solutions, (FDS), has been appointed to provide a number of its bespoke systems for a new residential development in London's Elephant and Castle. Brought onto the project by Lendlease, FDS will design, install and commission fire safety systems for seven residential buildings on the first phase of Elephant Park, South Gardens as well as an underground car park. In order to provide the development with the most appropriate level of fire safety for each of its blocks, FDS will design and install both mechanical and natural smoke ventilation systems based on the individual buildings' requirements. As well as controlling smoke in the event of a fire, FDS will install residential sprinkler systems in each apartment to provide additional protection.



Crawley recreates town centre around Morrisons and bronze clad car park

A stunning new Morrisons supermarket atop a two storey car park with bronze coloured cladding is the centrepiece of a major redevelopment of Crawley town centre.

The 75,000 sq ft superstore, 110 bed Travelodge hotel, 500 space car park and four restaurants made up phase one of Crawley Borough Council's Town Centre North masterplan on the former Sussex House site at the northern end of the High Street.

The scheme designed by architects Lyons Sleeman Hoare was being developed by Land Securities and St James's Investments, with McLaren Construction and Warefence appointed to install the car park steel mesh and cladding supplied by perimeter fencing manufacturer Zaun.

Zaun supplied Duo6 panels and posts, a fencing system based on a twin wire design, consisting of two horizontal 6mm wires resistance welded on either side of 5mm vertical wires.

The result was a rigid perimeter fence that offered a high degree of vandal resistance and an extremely high level of through visibility. The mesh also offered the versatility of integrating into a 'green screen'.



The major upgrade of the town centre included £750,000 of improvements to the public highway with pedestrianised areas, improved street lighting and new LED traffic signals at the junction of Pegler Way and The Boulevard.

A further £3.2m of improvement work to Queens Square, the heart of the town centre, will be complete in early 2017. An additional £18m of capital has also been secured from the Local Enterprise Partnership for transport and infrastructure improvements.

To find out more visit www.zaun.co.uk



DT36



DT300

New national specification manager at Fixfast

With over 30 years experience in the roofing and cladding industry, Chris Duffy has joined **Fixfast** as national specification manager. Chris' primary responsibility is new business development, which involves the creation and delivery of CPDs for architects and specifiers across the UK. Chris began his career in 1985 selling roofing and ventilation products to builders' merchants and distributors for Willan Building Services before becoming technical sales manager. Since then, Chris has built up a wealth of experience in the roofing sector, most recently as specification manager at SFS Intec. Chris' appointment is part of Fixfast's wider strategy to increase its visibility in the market and establish the most efficient specification process possible. Chris will be advising specifiers as to what products should be used within certain applications, thus ensuring the longevity of a building.



DT301

Celebrating 100 years of Scottish Architecture

GEZE UK was delighted to sponsor the Royal Incorporation of Architects in Scotland (RIAS) Centenary Awards Dinner, in Glasgow, and to present one of the awards which recognised a host of architectural achievements in Scotland. There was a 23-strong shortlist, vying for eleven awards which highlighted an eclectic range of projects – from a town centre redevelopment, a variety of new learning environments, a lookout tower with oil-rig style construction and views of the Flow Country and the redeveloped British Golf Museum and Café at the famed home of golf, St Andrews. Andy Howland, sales director for GEZE UK, presented awards to the joint winners in the category for Commercial/Industrial.

Style welcomes new arrival

Style Partitions is pleased to announce the arrival of David Gillies as its new DORMA product sales director for the south. Joining Style directly from DORMA UK, David previously worked as a London specification consultant, product manager and major projects manager during his seven years at the company. He brings to Style outstanding experience and knowledge of DORMA's Glass Movable Partition Systems and finding solutions to common access issues. "I'm delighted to welcome David to our team," said Style's group managing director, Julian Sargent. "The architects, specifiers, contractors and end-user clients we work with will all benefit from his knowledge of DORMA's product range across a broad cross section of markets. As demand grows for fully automatic operable wall systems and, with glass soaring in popularity, his expertise in these areas will also be invaluable."



DT302

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DT37



DT303

Hat trick success for Polypipe Ventilation

For the third successive year, **Polypipe Ventilation** is pleased to announce its win in the *Housebuilder Product Awards* Best Services Product category; this time for its Domus Green Line, High Efficiency rigid duct bends. The company won the award in 2015 with its Domus Radial duct system and in 2013 with its Silavent Green Line HRX Mechanical Ventilation with Heat Recovery (MVHR) system, while in 2014 it was highly commended for its Domus Thermal duct system. The Green Line High Efficiency rigid 90° duct bends are the latest addition to the Domus range. They provide up to 60% reduction in resistance to air flow within the bend, significantly lowering a duct system's total pressure loss and, therefore, overall energy

usage. When used as part of an MVHR system, this can also lead to cost savings.

Freebie anyone?

You don't get much in life for free. However, if you know of a charity, or other good cause, that is looking to make its room space more flexible, read on... Thanks to the generosity of **Style** and one of its clients, a London-based media group, a DORMA Moveo glass moveable wall is available completely free of charge to a charity or good cause. The operable wall, which boasts an incredible 50dB Rw acoustic rating, has been dividing the space at the media group's meeting rooms. However, due to an office refurbishment, it is no longer needed. Quite simply, if you have a need for it, they will donate the wall to you and Style will install it for free. The only requirements are, you must be a charity or good cause and it needs to fit your room space – approximately 7,000 x 2,600mm high, although a higher ceiling could be accommodated. "This glass wall offers a feel of light and space and, thanks to its acoustic integrity, meetings can be conducted undisturbed when closed."



DT305



DT304

A new, five-year partnership

Building materials supplier, **Aggregate Industries UK**, has named Eddie Stobart as its new logistics supply partner for its Concrete Products division. From October 2016, logistics for Aggregate Industries' Concrete Products division will transfer to Eddie Stobart's manufacturing and industrial business unit. The new five-year contract, awarded following an extensive tender, will see the haulier carrying Bradstone, Charcon and Masterblock products from 14 UK sites using a combination of specialist curtain-siders, flat trailers and mechanical off-load vehicles. This strategic partnership with Eddie Stobart will enable Aggregate Industries to provide a more personalised and flexible service to meet its customers' ever-changing needs.



DT306

WILLMOTT DIXON

Sole supplier

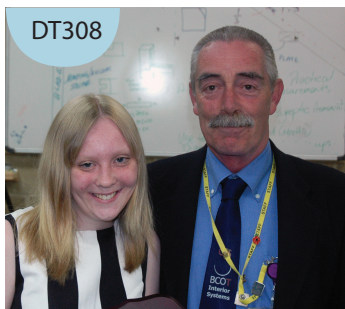
IKO UK Group has signed a Mandated Supplier Agreement with independent construction and property services company, Willmott Dixon. This includes IKO Polymeric for the supply of Spectraplan TPE and Armourplan PVC single ply membranes. IKO will supply its range of bituminous roofing systems – Permamatec hot melt, Permaphalt mastic asphalt and IKO Polimar cold applied liquids. Willmott Dixon is a £1bn turnover business covering commercial, public sector construction, housebuilding and development, interior fit-outs, repair and maintenance work and even energy services. "To drive predictability in the delivery of our product, IKO is our first choice on all projects whenever we are in control of the project design and specification," explained Tim Carey of Willmott Dixon. "It is a very successful relationship for both parties and this sole supplier mandate takes our partnership to the next level," continued Anthony Carlyle, MD of IKO Polymeric.

Ashdown Agreement final results

The Ashdown Agreement, a ground-breaking, voluntary initiative by UK plasterboard manufacturers on plasterboard recycling and sustainability, has announced the results for its final year. Since signing the Agreement in March 2007 the manufacturers, namely British Gypsum, Knauf and Siniat, have made significant progress in reducing plasterboard waste to landfill and increasing recycling. Figures for 2015 showed the overall total of recycled waste from production and construction activities was 45.9% to new plasterboard, cement and agricultural use, which is just short of the Agreement's 50% target. This is a step-change from ten years ago when less than 20% of construction waste was recycled. According to the **Gypsum Products Development Association**, which represents plasterboard manufacturers in the UK, figures for the Agreement's final year reflect the great efforts that the industry has made to improve its sustainability.



DT307



DT308

Outstanding achievers awarded

Last month, 20 students from Basingstoke College of Technology were recognised for their hard work and accomplishments over the past curriculum year. The awards ceremony, which has been running for over 30 years, celebrated achievements in various construction courses from plumbing to electrical installation. Nevill Long, a specialist distributor of interior systems and a division of **Encon Group**, was proud to join forces with the Finishes & Interiors Sector (FIS) at the event, sponsoring the Nevill Long Award, which was presented to Megan Parkhouse, age 18, for her Diploma in Interior Skills Level 2. The judges chose Megan for the award because of her excellent standard of work and always helping her peers reach the high standards she set herself. The interior systems specialist also sponsors the college's two-year full time interior systems course and support with key partners Knauf, Armstrong Ceilings and Clad Safety by donating materials for the course and clothing for the students. This is the only full time course of its type in the country.

DT309



New appointment at Morgan Tucker

National independent engineering consultancy, **Morgan Tucker**, has appointed Jean-Paul Skoczylas (MEng) as principal water engineer to the civils team at its expanding London office. With almost a decade of international experience in water engineering, Jean-Paul Skoczylas' career has spanned three continents including Europe, the Middle East and Africa. He joins Morgan Tucker's London water team after a three-year spell in Rwanda, as managing director and principal engineer of his own consultancy – Water Consulting East Africa – where he worked on multiple drainage, flood defence and wet utility design projects with international agencies, NGOs and private companies including USAID, UNICEF, IFC, Bechtel and the Rwanda Ministry of Agriculture.

DT310



Major manufacturing investment

In a major investment in its manufacturing capability, off-site building specialist, **Actavo | Building Solutions**, has opened a new production facility in Beverley in the East Riding of Yorkshire. Awarded the fastest growing modular company for the last three years, the new factory constitutes both a significant investment for Actavo and its Building Solutions division as well as reflecting its growth. With its existing manufacturing facility in Kill, County Kildare (Ireland), Actavo | Building Solutions is an established player in the UK and Republic of Ireland markets. Actavo | Building Solutions' operations director, Matthew Goff, said: "This investment reflects the real growth in the off-site building sector."

Community day proves a hit

Over 200 members of staff from Yorkshire-based ventilation manufacturer, **EnviroVent**, took part in a community day recently to put something back through volunteering on projects in Harrogate, Knaresborough and Nidderdale. The whole company, including managers, installers, surveyors, production and office staff worked together in teams of 10-15 people to carry out various projects across the local area. These included clearing the gardens at Horticap, community singing for the elderly people with Dementia Forward, a charity car wash for Saint Michael's Hospice, preparing a sunflower garden for the hospice, as well as promoting the charity's upcoming *You're Inspired* corporate challenge, and raising money for the homeless, with a nearly new sale.



DT311

DT312



Uniting for charity

Hardware specialist **VBH** used the FIT Show 2016 to launch the Platinum TS007 3-star cylinder from Yale. The VBH stand featured a large Yale Platinum display that included a find-the-key competition. Significant cash prizes were on offer from VBH, as well as Smart Home Alarm and CCTV installations courtesy of Yale Door and Window Solutions. Jayesh Patel of London's Everglade Windows was the lucky winner of a £500 cash prize, which he suggested should be donated to a worthy cause of his choice. VBH and Yale both matched his donation and Jayesh split the £1,500 between the Great Ormond Street Hospital for children, and the Katie Piper Foundation for their Inner Beauty Embraced fund in honour of the amazing Tulsi Vagjiani.

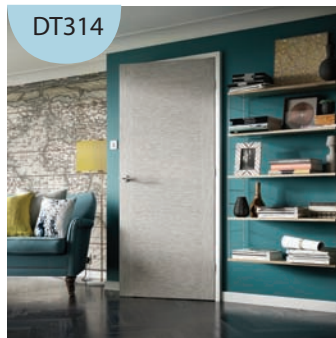
Knauf scores a hole in one

Dozens of Britain's leading architects assembled in July for an evening of Krazy golf and friendly competition in Clerkenwell, organised by **Knauf** and Domus. The 120 architects competed for a number of excellent prizes which were up for grabs at the end of the evening. Completing the six holes in 13 strokes or less placed players into a grand prize raffle for two hospitality tickets to the 2016 British Masters Championship, which takes place in October. Senior designer, Murray Palmer, of Portland Design emerged victorious, winning the grand prize and playing some spectacular golf in the process: "We love Knauf products, they're reliable and allow us to achieve our design potential in a practical manner." As the prizes were awarded, David Kong, marketing director of Domus Tiles said: "We would like to thank our partners at Knauf for collaborating with us to put this event together. We love working with their products and we couldn't produce the products that we do without Knauf providing us support."

DT313



DT314



Premdor's Portfolio Collection – a study in detail

When the **Premdor** product development team designed The Portfolio Collection, the range established new market standards for internal door design and, in particular, quality of construction and attention to finer detailing. The solid core door collection is faced using natural veneers and utilising Premdor's Veneer Match Technology, producing consistent colour and grain yet still allowing for natural variation, ensuring no two doors are ever identical. Each door is available with sophisticated, contemporary glazing options with fine detailing including colour co-ordinated glazing beads. FD30 and FD60 BWF-certified Fire Doors are also available throughout the range.

Further attention to detail is demonstrated by colour co-ordinated, solid lippings along the two long edges of each door; the lippings can be trimmed to size if necessary. The Portfolio Collection presents four distinct design themes comprising Natural, Exotic, Contemporary and Classic delivering nineteen aspirational designs with trend-setting colour palette and grain combinations.



DT315

Improving indoor air quality in Hampshire

Polypipe Ventilation's highly efficient Silavent CMX Mechanical Extract Ventilation (MEV) units with Domus Radial duct systems, have been specified for Keble Court in Church Crookham, a new retirement housing development in Fleet, Hampshire. All apartments will come with high quality fixtures and fittings as well as carefully considered design features, making life easier for older people. These include continuous Mechanical Extract Ventilation (MEV) to improve indoor air quality and environmental comfort by reducing humidity within the dwelling. The Silavent

CMX MEV system was specified due to its performance and slimline design. At just 125mm in depth and 3.25kg in weight, the CMX is one of the most compact and lightweight MEV units on the market, enabling it to be easily installed into a central location such as a loft, cupboard space or even small ceiling voids.

Gas-fired space heaters suitable for all sites

Rinnai's Energysaver range of fanned convection powered flue gas-fired space heaters are designed specifically for use in schools, community centres, libraries, conservatories, churches and other large spaces, where they have earned themselves great popularity with end-users and installers. Now, with a new, super energy-efficient addition to the range – the Rinnai Energysaver 559FT with sleek good looks – and a matching new streamlined look for the popular Energysaver 309FT, Rinnai is leading the field in large interior space convective heating. Sporting a modern, sleek casing, the heaters simply blend into the background in line with modern demands for modern interior aesthetics while offering exceptionally high efficiencies in operation and reduced running costs. Changes have been made to the operation board which is now an easy-to-use touch control pad sited conveniently and discreetly on top of the appliance, (rather than on the front with a flip up cover). The unit is also supplied with a child lock to eliminate the problem of small hands tampering with the controls.

Rinnai

EXPERIENCE OUR INNOVATION

DT317

DT316



Changing city centre accessibility

Edinburgh's historic city centre is delivering optimum accessibility with the opening of a new pub by Waverley Station. JD Wetherspoon has spent some £2.4m revitalising the site, formerly a Chinese buffet, into The Booking Office. The new venue features a Changing Places assisted accessible toilet – the only one of its kind in a pub in the vicinity. Supplied and installed by **Clos-o-Mat**, the Changing Places means that families and carers with adults and children who need help with personal care can now enjoy doing the sort of activities most people take for granted. The Changing Places toilet gives users more space than a conventional wheelchair accessible toilet, plus an adult-sized height-adjustable changing bench and hoist.



DT318

Alpha combi boilers chosen for Edinburgh flats

Alpha Heating Innovation has installed boilers throughout a high-end residential apartment complex in Edinburgh, Harbour Green. The InTec 34C model was selected for its high-efficiency and energy saving credentials. The InTec 34C is Alpha's flagship combi boiler and is suitable for heating the Harbour Green complex. It features a stainless steel heat exchanger, designed-in filling loop and seasonality valve to control flow rate according to the temperature of the incoming main. This allows for a higher flow rate in warmer months. The boiler also features a modulating high efficiency Grundfos pump and is fully ErP compliant. Marc Teague, managing director of MNM – the developer of Harbour Green apartments, commented: "With a consistent hot water temperature in cold weather and minimal water wastage, these boilers meet all the needs of each individual apartment."



DT319

Top of the class on NOx

Ideal Commercial Boilers is committed to ensuring that every condensing boiler in its range outperforms current regulations in terms of output, efficiency and energy use. In keeping with this undertaking, the latest addition to its floor-standing condensing boiler range, the Imax Xtra EL is the only UK boiler to have been awarded a Class 6 NOx rating from the European Standard EN 483: 2000 relating to gas fired central heating boilers. With its simple control interface, robust aluminium silicon alloy heat exchanger and large backlit display, the Imax Xtra EL provides straightforward installation, commissioning and servicing as well as being easy to manoeuvre due to its relatively compact size.

DT320



The knowledge to produce solutions

Silverwood Inspire timber cladding from **A. Proctor Group** has been chosen to add the finishing touch to a stylish new development of apartments and villas at Maidenraig Village in Aberdeen. Maidenraig offers a variety of apartments, houses and shops, which gives the development the self-contained feel of a small urban village within easy reach of the city centre. Contractor, Bancon Construction, chose Silverwood Inspire timber cladding in the Sand natural colourway for an impressive contemporary look. Silverwood timber cladding is regularly specified by architects and contractors on the basis of its proven performance, backed by a comprehensive ten-year paint finish guarantee, and its durability of up to 50 years as a result of the combined timber treatment and factory-applied paint finish. Silverwood Inspire combines the look and feel of traditional cladding with a planed and brushed finish and is available in a modern palette of colours.



DT321

Self-build home blends in beautifully

Marley Eternit's corrosion-resistant profiled sheeting has been specified for a striking self-build residential project located at Fiscavaig, on the Isle of Skye in Scotland. The three-bedroom family home has been designed by the team at Rural Design Architects, who are based on the island. They responded to their client's brief by delivering a memorable and robust building that is entirely in keeping with the local agricultural vernacular,

with the profiled sheeting exterior helping to reflect and complement the ad hoc buildings forming an important part of the surrounding rural landscape. The single-storey, mono-pitched house is called The Black House and the use of the deeper profiled Profile 6 option in black from the Marley Eternit range made for a more pronounced sinusoidal curve which works appropriately with the scale of the building. The chosen black colour provides a good definition to the form.



DT322

AkzoNobel is a big hit for Big Yellow

When Hampshire-based spray paint contractor, Sprayfine, needed to undertake a large contract for one of its most prestigious clients, it turned to coatings manufacturer and supplier **AkzoNobel** to supply a number of products from the SteelSeal range. Deborah Clark, director at Sprayfine commented: "We work with various products in the market but, in our opinion, have found AkzoNobel's SteelSeal to be the market leader. The end result provides the quality and longevity that Big Yellow and our other clients look for. Deborah Clark, director at Sprayfine commented: "The Big Yellow corporate colour is highly pigmented and requires a high quality product to give the best finish which AkzoNobel's SteelSeal provides."

Serge Ferrari offers a speedy solution

When making that all-important decision on where to go to university, the benefits of a beautiful campus shouldn't be underestimated. Designed by Stephen Marshall Architects, the new building for Scape forms part of a wider multi-campus education in East London, close to the hubbub of the silicon roundabout. The 50,000ft² facility is encompassed by student living blocks, which are up to 11 storeys in height and contain over 500 residential apartments for UK and international students. Stamisol Color, a product from **Serge Ferrari**, was used on this particular project. Intended to be seen, Stamisol Color is versatile in working with a range of other building materials and provides a contemporary finish for statement projects, often breathing life into less interesting commercial buildings.



DT323



DT324

Eye-catching Brett paving solution for school refurb

Sarum Academy in Salisbury has regenerated its external grounds, as part of a larger £15.5m redevelopment, using a proven permeable paving solution from **Brett Landscaping**. The eye-catching scheme has been created using Piatto Block paving with its vibrant colours and clean, modern design, combined with classic Omega and Omega Flow rectangular block paving from Brett Landscaping. The Omega Flow permeable paving allows rainfall to permeate naturally between the paving blocks into a permeable sub-base as part of a SuDS solution designed to help prevent flooding. This product selection has been used to create a variety of patterns which complement and reflect the contemporary lines of the school itself.

Sto helps to keep in the heat at Chester Zoo

An external wall insulation (EWI) system provided by **Sto UK** has helped Chester Zoo open the doors of its latest Islands Exhibit to the public. Designed by Berlin-based architect Dan Pearlman, the concrete building covers an area as large as a football pitch and now houses a number of endangered species from Southeast Asia, including snakes, giant tortoises and crocodiles. This requires a constant internal temperature to be maintained, so the StoTherm Mineral EWI system had a vital role to play in achieving the correct U-value of 0.23W/m²K. There were many curves and changes of level in the external concrete surfaces which the insulation was applied to. This required the use of different thicknesses of insulation and a high degree of on-site problem solving, along with close collaboration between Sto, the insulation contractor and the architect. Eventually, an adhesively fixed system was used, suited to the high wind loadings caused by the height of the building. Above the damp-proof course, the EWI system was finished with Sto's water repellent and weather resistant StoIt K multi-purpose render.



DT325



DT326

Roaring success for AkzoNobel

When the Zoological Society of London (ZSL) was creating its new lion enclosure experience, it needed suppliers and manufacturers that could provide the high levels of design and finishing required. It was a perfect project for leisure building designer, Pinelog and coatings manufacturer, **AkzoNobel** to highlight both their quality and innovation. The new venture required Pinelog to manufacture and supply ten pre-manufactured timber frame en-suite bedroom lodges. They are individually coloured and themed for overnight visitor accommodation alongside the Land of the Lions project. The Gir Lion Lodges were a suitable fit for AkzoNobel's SIKKENS CETOL WF 771 one-pot coatings system. With SIKKENS CETOL WF 771, Sikkens Wood Coatings provide a special product which is highly protective against the damaging effects of UV light and moisture. Its transparent film saturates and fills the pores in the wood with the Saturator-Effekt and therefore increases its durability.

Saracen Interiors

Saracen Interiors has completed an office fit-out in Edgware for Japanese food company, Nihon Shokken. The £65,000 fit-out covered 4,000ft² of office space at Camrose House and was completed within six weeks as a fast-track project for this new client. Work included the installation of partitioning to create a kitchen, meeting room, manager's office and cloakroom with carpeting and floor coverings throughout, including laminate in the kitchen area. All spaces were fitted and decorated and basic plumbing and electrics were installed to meet the agreed specifications. Saracen worked closely with the client from the early planning stages to ensure all of Nihon Shokken's needs were met.

Email: enquiries@saraceninteriors.com

Website: www.saraceninteriors.com



DT600

Jet Aire

Lee Doherty, one of Jet Aire's longest serving staff members, has been promoted to operations manager, working out of the company's North East office in Middlesbrough. Lee is a specialist Jet Aire OS19x qualified CCTV technician. At the beginning of 2016, the company decided that it needed someone who had operational experience, but who could also act as medium between the on-site workforce and the Middlesbrough management team. Lee was asked to become a site supervisor, particularly because of his vast knowledge base and his general can-do attitude. He quickly exceeded expectations, to the extent that when the position of operations manager became open, he was the obvious choice.

Email: enquiries@jetaire.co.uk

Website: www.jetaire.co.uk



DT604

Arco

Safety supplier, Arco, has injected significant investment into its confined spaces offering, delivering training, consultancy and advice, site services and equipment hire to a range of industries and business sizes across the UK. Following the recent acquisitions of Total Access and Confined Space Training Support (CSTS), Arco has now been able to expand its offering significantly. CSTS is a specialist confined space, training and support services provider. For those working at height in confined spaces, highly experienced instructors at Total Access can simulate realistic working environments. Arco can provide consultancy on a range of subjects including policy and procedure writing and implementation, risk assessments, safe systems of work and emergency procedures.

Website: www.arco.co.uk/confined



DT601

Levolux

The new BREEAM Excellent rated Manchester Cancer Research Centre (MCRC) building harnesses the latest building technology, including a custom solar shading and screening solution from Levolux. Levolux devised an arrangement of external aerofoil-shaped fins based on its Infiniti Fin system. The fins measure 200mm wide and have been used extensively. All fins are fixed at an angle of 90° to absorb and reflect the sun's rays most effectively during the summer months. The openness of the fins helps to maximise daylight levels, while retaining good outward visibility for occupants. Several arrays of vertically stacked, horizontal aerofoil-shaped fins have been applied to the south-facing elevation at the first and second floor levels.

Email: info@levolux.com

Website: www.levolux.com



DT605

Timbmet

A new brochure explaining the benefits of Timbmet Engineered Components (TEC) compared to timber underlines why the company is at the forefront of innovation in the largely traditional timber industry. Manufacturers and installers will find that Timbmet's multi-layered construction of TEC offers stability and stress performance far in excess of timber. These highly engineered wood products – available in four key species – are made by joining/gluing multiple pieces of material together. TEC is designed to provide uniform performance; a flawless appearance free from knots, splits and staining; reduced levels of waste; and savings on material yield costs and labour costs.

Email: marketing@timbmet.com

Website: www.timbmet.com



DT602

CDUK

Bluesky Design Interiors has transformed a former canal-side warehouse into an exciting and dynamic workspace for Well Pharmacy in Manchester. Combining the listed building's original features and character with contemporary styling, the team created a bespoke reception centrepiece in Antarctica Corian from CDUK. The 14m² desk was complemented by a matching waiting bench in the landlord's lobby. The design concept is based on the building's location. The shape of the desks reflects the ripples in the canal water, creating a simple desk that has an organic form. Angles with softened corners were added to graduate between the desk height and counter height sections.

Email: info@cdukltd.co.uk

Website: www.cdukltd.co.uk



DT606

Crittall

The newly developed Berkeley from Crittall Windows provides the architect and designer with minimum sightlines, maximum daylight and fine detail. Created initially to replace existing 1920's and 1930's steel windows, it is equally as acceptable for high-end new build as it is for restoration projects. Where predominantly single pane leaded glass fenestration is to be replaced and upgraded, the Berkeley offers an entirely new series of hot rolled profiles in a window where a solid steel chamfer replicates exterior putty. Hot-dip galvanized for durability and in-house Duralife polyester powder coated for exceptional performance and minimal maintenance, the Berkeley window is available in a variety of sizes and configurations to suit any building.

Email: hq@crittall-windows.co.uk

Website: www.crittall-windows.co.uk



DT603

GEZE UK

Two of the leading names in door and window architecture – GEZE UK and Kawneer – have joined forces to launch a superior ventilating window. Kawneer's high thermal performance AA 720 parallel opening window combines with GEZE's award-winning Slimchain window drive to produce a window system which is suitable in any sector, be it residential, healthcare, education, commercial, retail or leisure. This combination of attributes provides ventilation around the entire window perimeter without detriment to safety and security. Achieving U-values of 1.5 W/m²K, a CEN sized window with a warm edge spacer offers exceptional levels of natural ventilation and air exchange, with a 86mm clear opening restriction as standard.

Email: info.uk@geze.com

Website: www.geze.co.uk



DT607

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DT38



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