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Winter 2015

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A2Arquitectos: Juan Manzanares Suárez & Cristian Santandreu Utermar
Hotel Castell dels Hams, Mallorca, Spain.

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Reynaers drives industry partnership through Top Gear track experience

Reynaers has held a series of exclusive events for specifiers as part of its 50th anniversary celebrations. Six different “R-Cuisine” events, taking place from July until September, have been organised by Reynaers. Each event features an exquisite 10-course tasting menu and overnight stay in a luxurious hotel. Participants also get the chance to take part in the Top Gear ‘Star in a reasonably priced car’ track experience and battle it out against industry peers to earn a place on the leader board.

Paul Duffy, sales Director at Reynaers, said: “We’re celebrating 50 successful years this year and wanted to thank our network of architects, main contractors and consultants for their support. They all understand the value of a premium brand and excellent customer service. This is the second year that we have run R-Cuisine in order to build partnerships with key specifiers in the industry in a unique environment. Last year was such a success in giving industry professionals and our partners opportunities to network and build lasting associations in line with our ethos ‘Together for Better.’”

You can have a look at who is topping the leader board at: bit.ly/ReynaersTopGear



Currently architect Chris Pickup is number one driver in the industry with an impressive lap time of 1 minute 41 seconds – ahead of actors Matt LeBlanc and Rowan Atkinson. See more from the day at bit.ly/ReynaersRCuisine

0121 421 1999 www.reynaers.co.uk/

SE Controls keeps shoppers safe at new Matlosana Mall in South Africa

The smoke ventilation system at Matlosana Mall, shopping and entertainment centre in Kerkdorp, South Africa is using SE Controls’ window automation and control panel solutions to ensure it operates perfectly in the event of a fire, allowing smoke-free escape routes to be maintained for shoppers and staff.

Designed by Stauch Vorster Architects, the 1 billion Rand development incorporates more than 140 stores and restaurants, as well as a six-screen cinema within the 65,000 sq m retail and entertainment complex, which also provides employment to around 3,000 people.

Due to the large areas within the mall and the high volumes of people, effective smoke ventilation is essential to ensure escape routes are kept clear. As a result, SE Controls’ SECO N 24 25 chain actuators are used throughout the retail complex to automatically control windows and Curvent ventilators, which are linked to a series of SE

Controls’ OS2 Type 21 and 23 controls panels.

In the event of a fire, the mall’s smoke sensors trigger SE Controls’ EN12101-2:2003 compliant control panels and chain actuators to automatically open the window and ventilators, allowing smoke to be vented to assist escape. Manual Controls Point (MCP) switches are also incorporated within the design to allow manual actuation of the system.

Russell Cramb, general manager with SE Controls Africa, explained: “Fire safety and smoke control is essential in major retail, leisure and entertainment developments, such as the outstanding Matlosana Mall. By working closely with architects and specialist contractors such as Curvent International, we can help create highly effective solutions that are tailored around the needs of specific building designs.”

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Architekten (project realisation)
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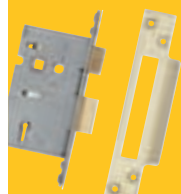
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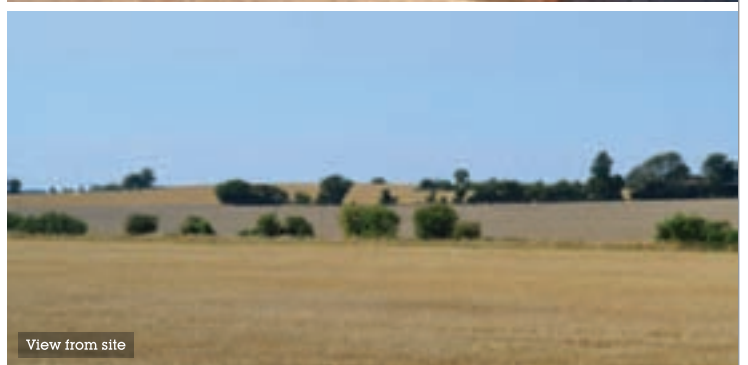
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BSkyB believe in better building

SKY's new Believe in Better Building, is an office and training facility with a clear social idea based around community focus, designed to enhance the wellbeing of the users. The super-flexible offices can be converted to interactive classroom environments for training and creative-thinking, or cleared to create sizeable corporate event spaces. The interiors are fresh, natural and fun, packed with state-of-the-art IT, expressing a dynamic and social culture, where break-out and social space is as important as desks.

The aim of the project was to provide an inspiring exemplar of construction delivery and sustainability. Arup Associates' Unified Design approach has delivered the UK's first multi-storey timber commercial office, in a project programme of one year from inception to practical completion. The sequestration of carbon in the frame creates a building that goes beyond zero embodied carbon. The low-energy servicing strategy is integrated seamlessly into the building design, allowing the timber frame to be displayed in all its glory. It is the first building in the UK to be designed in accordance with the emerging Wellness Certification principles. The key principles of which are quality day-lighting, air quality, natural material selection, and great design. The team also specified materials that have low or no VOC content to avoid off-gassing problems. The extensive use of natural wood, internal and external greening provides human delight, celebration of SKY culture, and for human-nature interactions within the building.

The building is wrapped in large format rectangles made of ALUCOBOND® aluminium composite tray panels. The facade, featuring a combination of ALUCOBOND® in sunrise silver metallic and Anodized Look CO/EV1, offers an attractive contrast to the building's interior design in wood. ALUCOBOND® is fully recyclable and demonstrates a high level of sustainability: The core material and the aluminum skins can be returned to the material cycle and reused for the production of new material. The high intrinsic value of aluminum is a major economic incentive for its recycling. In fact, aluminum scrap can be repeatedly recycled without lessening its value or diminishing its properties. In addition, the energy used in recycling is a mere fraction of primary production requirements, often as little as 5 per cent, yielding obvious ecological benefits.

Flexibility is one of the keys to the project's success. It is designed to be intuitive, with a simple understanding of way finding and building function as well as providing a wealth of extremely flexible spaces to respond to the



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varied and changing needs of the Sky users. A large, open-plan, column free space on the second floor has been provided to accommodate large meetings and gatherings. The room partitions are therefore designed to achieve enhanced acoustic separation commensurate with the potential multi-media teaching in adjacent rooms in mind. A sweeping, open staircase starts at ground and rises through the triple height atrium. At first and second floors the stair width is increased to incorporate breakout spaces, and provides not only circulation, and visual communication across the floors and out to the plaza, but creates the social and interactive focus of building.

Paul Herbert, Specification Manager
Richard Geater, Sales Manager
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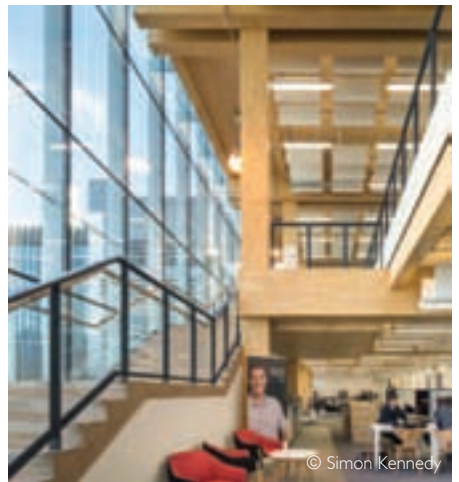
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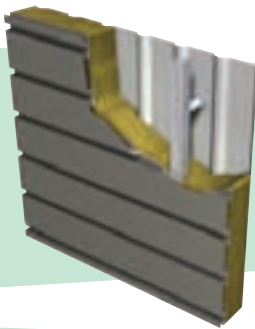
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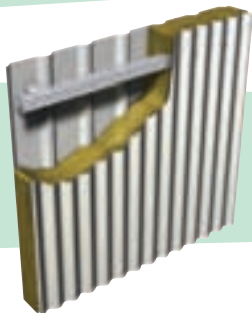


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Kidde customer Wheatley Group has seen its commitment to gas and CO safety recognised by a series of recent awards. A key component of Wheatley's success is installation of 10-year guaranteed CO alarms from Kidde, resulting in substantial cost savings and a reduced carbon footprint. As part of its commitment to gas safety, Wheatley has now completed installation of CO alarms in all 29,055 Group gas properties. The Group is realising major savings using Kidde's 10LLCO carbon monoxide alarms, enjoying a full 10-year guarantee covering both alarm and sealed-in lithium battery. The 10LLCO alarm and its digital equivalent 10LLDCO are small in size with a slim profile and can be wall-mounted or used free standing. They are simply activated by the slide-on back plate, preserving battery freshness until needed, and a tamper resisting self-locking installation system avoids battery theft. The CO sensors – the key component – are actually tested throughout a 10-year period or longer. Allowing tighter quality controls to be applied, Kidde manufactures its own sensors, based on environmentally friendly de-ionised water. An event activity data log for each alarm is available, upon request from Kidde.

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Frimley Park Hospital chose a Yorkon off-site building solution from the **Portakabin Group** for a 34-bed emergency care ward to help address the increased pressure on health services particularly during peak periods. The two-storey ward building which provides beds for critical and elderly care was handed over after just four months on site. The use of off-site construction ensured any disruption to the hospital was kept to an absolute minimum and radically reduced the programme time to allow earlier occupation. The pre-installed Yorkon concrete floor system was specified throughout the building for a robust and high performance finish. The Portakabin Group has an extensive track record in the healthcare sector.

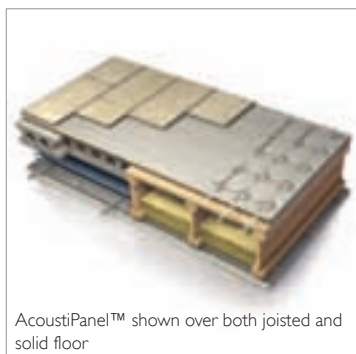
Premium Sky TV for Greenwich Peninsula



Sky has formed a partnership with Fibre Options to offer premium TV services to residents of the new Greenwich Peninsula development in London. All homes in the development are to be fitted with Fibre to the Home (FTTH) technology, delivering speeds up to 1Gbps. As part of the partnership between Fibre Options and Sky, residents who sign up to the purefibre high-speed (1Gbps or 100Mbps) broadband packages from Fibre Options will also be offered the opportunity to access Sky's full range of premium TV services.

08442 411 335 www.sky.com/communalTV

AcoustiPanel™ I4



AcoustiPanel™ shown over both joisted and solid floor

This new acoustic solution from **Nu-Heat**, produced in partnership with Knauf, comprises a pre-routed Knauf gypsum board bonded to acoustic fibreboard, into which Nu-Heat's 14mm tube system is neatly installed. The tongue and groove panels offer high thermal conductivity allowing a quick transfer of heat into the room and create a stable, monolithic floor finish with minimal movement. Exceeding Part E, this solution is particularly suited to new build and conversion apartments where an efficient and discreet underfloor system is required as an integral part of an acoustically secure system that is simple to install. This tailor-made acoustic UFH system offers: Heating and floor deck in a single solution over a solid or timber floors; A low profile UFH solution combined with outstanding acoustic properties, exceeding Part E; Minimal height build-up at just 33mm, saving typically 67mm compared to typical acoustic batten solutions; Low weight solution at only 25.8 kg/m², saving 74.2 kg/m² compared to a 50mm liquid screed or 117.2 kg/m² for a typical 65mm sand & cement screed UFH system; A sustainable solution, with the gypsum board being made up of a minimum of 60 per cent recycled product. For specification data and more information visit www.nu-heat.co.uk/ap14.

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Plumis Automist provides fire protection in student accommodation

An innovative fire protection system was used at three new build flats in Leicester at the end of last year. Sheila Grieff, West Manor Student Living's Property Manager advised that the flats were going to be used for student accommodation. Open plan living is becoming increasingly popular, increasing room sizes by incorporating circulation areas and letting in more light. In this case, all three flats were open plan and two of the flats had escape routes through a common room. BCK Contracting Ltd, accredited, approved installers of Plumis Automist systems in the Midlands were asked to provide a quotation. Charlene Johnson, BCK's Company Secretary, explained, "Leicester City Building control had initially recommended the installation of fire sprinkler systems. However, the flats were completed before the sprinklers were fitted. As a result, BCK recommended three Automist systems which enabled the retrofit of fire protection without additional construction works."

Automist uses a high pressure pump to generate a fine water mist from nozzles mounted under a standard tap and provides residential fire life protection. The innovative system can also be mounted stand alone on a work top or even a wall. Building control was very happy with this alternative and the quotation was very acceptable to the client. The whole project was much more affordable and less disruptive than fitting sprinklers which would have entailed construction costs and consequent time delays. Additional considerations were that Automist uses significantly less water than traditional sprinklers minimising runoff and consequential water damage and sprinklers would drench the property disturbing the lives of the students.

Automist is ideal for student accommodation, as it makes open plan living possible and, as in this case, for use where a bedroom escape route is



through a kitchen or high hazard area. In addition, the client was able to benefit from the quicker installation compared to sprinklers and was able to save valuable space, as sprinklers usually require water storage tanks or the upgrading of water mains.

Automist was installed in September 2014 and the client was very happy with it as an alternative option. Sheila would have no hesitation in using Automist in Westmanor's other accommodation blocks where an open plan design is desirable.

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Prestige Johannesburg office development stays cool with SE Controls

A new prestige office development in Sandton, Johannesburg is using a combined smoke and natural ventilation system, involving automatic window vents in the building's elliptical glazed central tower, which is actuated and controlled by an integrated solution from SE Controls Africa.

Located in the Sandton business area, which is regarded as one of South Africa's prime commercial locations, the R208 million (£10.7 million) Capital Hill development combines seven floors of office space with residential apartments, as well as covered parking for almost 400 vehicles.

Designed by MWLF Architects, the building not only provides high quality business facilities and residential accommodation, but is also highly energy efficient and is constructed to achieve a 'Four Green Star' rating from the Green Building Council of South Africa.

As part of this process, the building's 12 storey

elliptical central tower features a fully glazed external facade within an aluminium lattice structure, which incorporates an automatic window and vent opening system to provide natural ventilation and overnight cooling, as well as smoke ventilation in the event of a fire.

To achieve the necessary level of versatility and control required for the automated vent system, SE Controls supplied 49 SECO N 24 25 twin chain actuators with a 350mm stroke length together with 7 SHEVTEC control panels and manual control points (MCP), which were networked using the company's OSLink network cards. An external weather station was also installed to provide an information feed on ambient conditions into the system.

In normal operation, the windows open and close automatically, to provide cooling and a supply of fresh air, but in the event of a fire this is over-ridden and vents are opened to allow smoke



to be vented, enabling escape routes to be kept smoke free.

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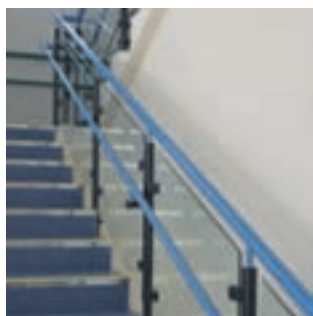


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Vortice product development focus on indoor air quality

This month sees the launch of a new heat recovery unit, the HR250 Neti which is the second in the last 8 weeks from European market leader Vortice. The company has been selling MVHRs for many years, but promised further new product development this year for this sector.

General Manager Kevin Hippey said: "As far as architects, specifiers and developers are concerned, our research suggests that there are four key areas which are of greatest importance to them, high thermal efficiency, low noise emissions, low specific fan power and ease of installation."

These features were all built into the design of both new MVHR units launched by Vortice this year as well as the key consideration of product impact on indoor air quality. For decades, the indoor air that we breathe has been taken for granted however with new builds becoming more airtight reducing indoor air pollutants is becoming more important.

Kevin Hippey continues: "Europeans spend at least 90 per cent of their time indoors, so their exposure to air pollutants largely depends on their indoor exposure. These pollutants include volatile organic chemicals (VOCs), gases such as nitrogen dioxide, ozone and carbon monoxide, particulate matter and fibres, and biological particles such as bacteria, fungi and pollen. The Clean Air Act of 1956 largely dealt with severe exterior air quality issues but attention now needs to focus on the air that we breathe inside our homes."

Pollutant sources include outdoor contaminants from traffic and industry, which enter buildings by infiltration and through ventilation systems. Indoor contaminants include burning fuels, candles, tobacco, cleaning products, electronic equipment, toiletries and pets. The pollutants impact on health depend on their toxicity, concentration and exposure period and range from odour to irritation to serious toxic effects. The 2006 revision of the Building Regulations

concerning ventilation (ADF) set performance criteria for several air pollutants, including VOCs, nitrogen dioxide and carbon monoxide.

Both new Vortice MVHR units include filtration on the supply side of the MVHR system to try to prevent as many external pollutants as possible from entering the home. Properties in inner cities are particularly vulnerable to these, with high volumes of traffic or industry close by. Vortice offers a range of filter options with both MVHR units in order to remove small particulates.

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David Wilson Homes uses Vortice Leto Fan

A prestigious new development called Grey Towers Village in Nunthorpe near Middlesbrough will feature **Vortice's** Leto fans in its three, four and five bedroom houses. The Vort Leto is an energy efficient centralised mechanical extract unit suitable for kitchens plus three wet rooms, and is SAP Appendix Q listed. Roy Brown, Vortice Area Business Manager said: "Quite apart from its energy efficiency, the customer was particularly pleased with the quiet running of the Leto and the fact that it only required one breakout from the building." Grey Towers village by David Wilson Homes combines the best of village life with the conveniences of modern living. It is built with a traditional village feel about it, including features like a beautiful pond, woodland and nature trails. The houses are spacious and incorporate energy efficient build methods. For further information about the Leto fan and other Vortice ventilation products visit the company website.

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James Latham now offering Engineered Grandis

James Latham is now offering the Rolls-Royce of Eucalyptus through all eight of its timber depots, with the arrival of Grandis 690+, a WoodEx Engineered Grandis.

Delivering a number of benefits to customers; namely sustainability, natural durability, ease of use and continuity of supply, Grandis 690+ (a reference to its impressive density scoring against other products available on the market) is 100 per cent FSC plantation grown from an area of 220,000 hectares and produced exclusively from a single species.

Fully compliant with EUTR legislation and verified by TRADA, Grandis 690+ has been extensively tested at the Federal University of Paraná in Brazil where it scored highly against stringent criteria including strength and durability (achieving 2-3; durable to moderately durable) as well as density, (690 - 750 kg/m³ @12 per cent M/c – the same species in other parts of the World has only achieved 595 k/g/m³), making it particularly suitable for joinery and structural use. Plus, it has also been assessed for one-hour fire test requirements.

It also boasts an impressive natural durability, resisting infestation from insects, therefore greatly reducing the chance of bore holes etc as well as maintaining its aesthetic properties.

Paul Leach, group product sales and development manager for WoodEx and Accoya at James Latham explained: "With Grandis 690+, the timber is allowed to grow more naturally and reach full maturity of approximately 28 years, hence the extra density.

"It really is an impressive timber and one which ticks all the boxes, both for ourselves but also for our customers. As well as meeting all the legal and sustainable requirements, it's a high-grade, knot free, clear and uniform timber which is also extremely easy to machine, making it the perfect choice for the joinery, furniture making and construction sectors."

Grandis 690+ is exclusively available through James Latham, directly from stock in clear faced lengths of 2.0m – 3.0m and in finger-jointed lengths of 5.9m as well as in various widths and thicknesses.



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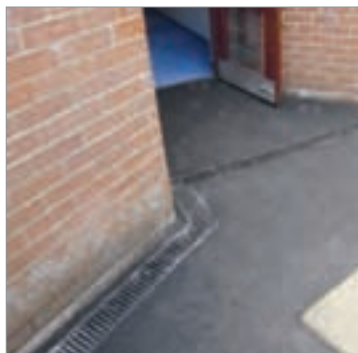
Hauraton drainage channels used at Penarth Learning Community School

Penarth Learning Community School, Cardiff, South Wales, comprises a mainstream comprehensive school with 1,280 places, together with a Special Educational Needs (SEN) school, catering for 205 pupils with a wide spectrum of learning needs including those with learning and physical difficulties and those on the autism spectrum. Together with a learning facility, there is also a 1,500m² residential home, allowing 19 pupils to stay over at any one time to provide respite to their families. With the site being quite flat and the new buildings surrounded by block paved areas and asphalted surfaces, it was essential rainwater is drained effectively. Two **Hauraton** systems were chosen to drain surface water: RECYFIX® PRO fitted with FIBRETEC® C250, HEELSAFE 9mm slot gratings for the asphalted yards and car park and RECYFIX® STANDARD SLOTTED CHANNELS fitted with symmetrical galvanised steel covers. Once installed this system provides an unobtrusive, narrow line of slots in the paved surfaces. Steve Wiseman, Hauraton's project engineer commented: "By using two types of channel the overall appearance of the block pavements and asphalted surfaces was enhanced with the drainage requirement fully met".

01582 501380 www.drainage-projects.co.uk



Hauraton channels used as perimeter drainage at Brooke Church of England School



Located in Brooke village about six miles South of Norwich, The Brooke Church of England Primary School is a brick building surrounded by an asphalted playground which tended to flood when there was heavy rain. As part of a number of measures designed to reduce future flood risk it was decided that the existing drainage needed to be upgraded.

The **Hauraton** RECYFIX® PRO 100 channel system, fitted with FIBRETEC® C250, HEELSAFE 9mm slot gratings was specified by NPS Group of Norwich, and used to provide perimeter drainage right around the school building. This continues 104 metre channel run not only drained the asphalt playground it prevented standing water reaching the walls and acted as a drain for roof downpipes.

The FIBRETEC® grating design helps eliminate any cross-flow over the grating and important consideration for the Brooke project. The RECYFIX® channel component is made from 100% recycled PE-PP. The channel for the Brooke project has an intake cross section of 92 cm².

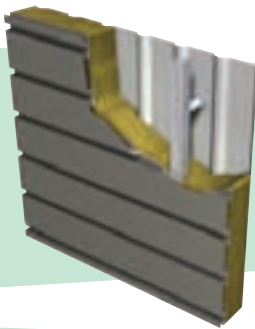
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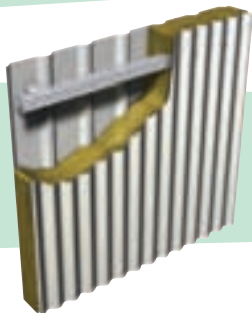


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The Schöck Isokorb – An effective alternative to wrapped parapets

Located near Highgate in North London, the Chester Balmore project consists of three elegant brick-clad blocks, housing 53 super-insulated one, two and three-bedroom flats. The development is designed to achieve Code for Sustainable Homes Level 4 and the virtually airtight envelope is constructed using reinforced concrete and blockwork. Including an EPS filled 250mm cavity, the walls are half a metre thick and the windows triple glazed.

Preventing thermal bridging along the parapets is critical for such a high performance development, because parapets, as with balconies, can allow conductive materials to transfer energy through the thermal barrier. Conventionally, in the majority of cases, the method of insulating parapets and parapet walls is to wrap the perimeter of the wall with an insulation barrier. However, the Schöck Isokorb type A offers a cost-effective and more thermally efficient alternative. Its 60mm



insulation thickness results in low psi-values and therefore significantly reduces heat loss – and there is no wrapping required. It permits a more sophisticated construction opportunity for greater freedom of design and allows flexible distance between elements according to load requirements. An added benefit being there is no risk of any additional thermal bridging through balustrade fixings. Other key factors are durability and water impermeability. The Isokorb type A solution does

not require maintenance and there is no risk of expensive restoration due to waterproofing problems. Whereas wrapped components can be likened to an insulated flat roof, with many of the associated problems. They are prone to damage and almost inevitable repair and maintenance outlay, particularly where railings or covers pierce the insulating layer. With thermally separated parapets, railings and covers can be attached directly into the concrete. The Isokorb type A provides BBA Certification and LABC Registration and meets full compliance with the relevant UK building regulations. In addition, there is also compliance with the Government Standard Assessment Procedure, SAP 2012, concerning CO₂ emissions from buildings and respectively heat losses through non-repeating thermal bridges.

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Game, set, match for Ahmarra Installations



Ahmarra Installations has completed a joinery fit-out sub-contract for the world famous All England Lawn Tennis Club (AELTC) at Wimbledon.

A series of orders were secured with the AELTC in which Ahmarra's skilled joiners worked to tight deadlines to deliver the scheme in time for this year's Championships, while ensuring the promised high quality levels of finish and design.

Ahmarra Installations undertook work in the Aorangi Pavilion, Millennium Building and the new areas underneath Courts 14 and 15, which houses the 24-hour media restaurant, a bespoke working area for some 250 photographers as well as new accommodation for the ball boys and girls. This order forms part of AELTC's Master Plan for the Club and The Championships which includes the construction of a new retractable roof over No.1 Court.

"We are delighted to be associated with such a prestigious British institution and we hope that our efforts will evolve into a long term relationship with this landmark sporting venue" commented Richard Panrucker, Ahmarra Installation's director. "Our installation team worked to a very tight programme of works whilst still providing enough flexibility in the project plan to allow for any unforeseen challenges, as it was vital that that we



had no negative impact on the day-to-day running of Wimbledon" said Richard.

The highly bespoke works included press, writers and radio desks, dressing room benches, player support desk, wall planter system, counter tops, roller shutter cupboards, shelf units, vanity units, changing cubicles, lecterns and internal fire doors.

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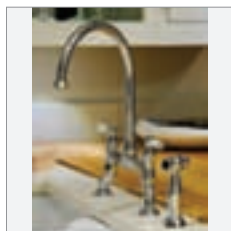
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Abode Astbury bridge mixer tap

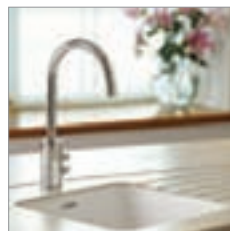


The inspiration for the Heritage collection of kitchen brassware comes from the classic era of British design and manufacturing, with refined and distinctive styles that will bring a fashion statement to any kitchen. The Astbury bridge mixer tap from the **Abode** Distinctly Heritage range reflects a golden era in brassware design, with its

curvaceous shapes and fluid lines forged in the past, but with the technology utilised in its manufacture, very much today. The taps take their form from both traditional and contemporary styling.

01226 283434 www.abode.eu

Fliq from Abode

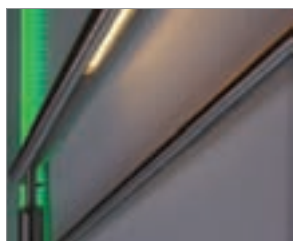


Fliq is an innovative concept in mixer taps from **Abode**. This stylish design-led geometric monobloc tap has stunning looks and has been developed using a new ceramic disc valve. This allows precise operation of water flow through the simple forwards and backwards movement of the unique hot and cold control paddles. Available in chrome and brushed

nickel finishes, the tap operates at low pressure, and the simplicity of the Fliq operation ensures it can be easily used by a flick of the wrist. Visit the Abode website to view the complete range of taps and sinks.

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neaco launches balustrade with LED lighting



neaco have introduced an exciting new design option for their Spectrum range of balustrade and balconies with the launch of rails featuring integral LED under-lighting. **neaco's** UK Business Development Manager, Peter Melia, said: "The LED under-lighting is another impressive example of the superior architectural aesthetic which characterises our

innovative balustrade, balcony and structural glass range. This new option adds an atmospheric touch to design schemes and I'm sure that it will be a popular specification across a variety of projects."

Egerton ceramic sinks from Shaws of Darwen



Egerton is a popular double-bowl fire-clay sink from **Shaws of Darwen**, handcrafted in Britain and featuring a unique and distinctive patterned front. The offset dividing wall is branded with the well-known Shaws logo to complete the finished 'look'. This beautiful sink from the Shaws Original Collection comes without overflows, but with 3½" waste outlets for basket strainers or waste disposers. Shaws sinks are produced with a durable glaze in both white and biscuit finishes, and designed for years of usage. Due to its weight, Shaws recommend the Egerton sink to be installed professionally with bespoke cabinetry.

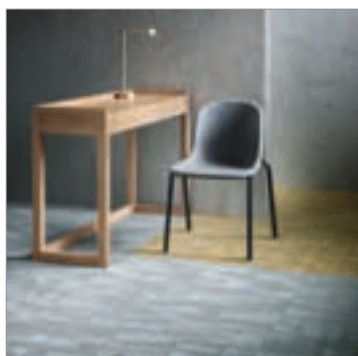
01254 775111 www.shawsofdarwen.com

Linstone Housing Association gets a perfect finish from Encasement



Linstone Housing Association's recently opened office at Linwood in Renfrewshire is using a range of 'Circa' and 'Forma' column casings from **Encasement**, to conceal interior and exterior structural steelwork while helping create an aesthetic finish to the building's contemporary design. The office is located on the new Linwood Town Centre complex, and provides a centre for all of the housing association's activities in the region including the management of its 1,570 properties. All 32 column casings are 550mm diameter and were manufactured, supplied and installed by Encasement with 19 PPC coated Forma aluminium column casings, each standing 3,000mm high, being used to conceal the building's external structural steelwork. For the interior, Encasement's 'Circa' preformed plywood column casings were used, ranging in height from 2,700mm to 4,100mm, which are finished in a durable laminate capable of resisting scuffs and damage in busy areas and high traffic applications. Encasement's MD, Martin Taylor, said: "It is more common for us to supply housing associations with our pre-formed pipe boxing and boiler pipe casings for use in their own properties, so the opportunity to supply and install our column casings for the new office building is a little unusual, even though our Forma and Circa casings are widely used in countless projects from commercial, residential and retail through to education, hotels and public buildings."

Tantalising designs with Forbo's Tessera Alignment



Forbo has refreshed its Tessera Alignment carpet tile collection with a new contemporary colour palette, providing specifiers with the ability to create truly individual floor designs.

Alignment's multi-height loops provide a distinctive bold, directional theme which is tempered by the introduction of intersecting random blocks of rich cut pile. The result is a highly effective broadloom appearance and a unique linear style.

The collection now encompasses 24 colourways, ranging from urban neutrals to fresh aquas, and includes 8 new highlight colours which can produce striking designs when installed alongside the dark nucleus colourway.

Manufactured with over 50 per cent recycled content by weight, Alignment meets the SKA rating criteria for M12 soft floor coverings for offices.

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Gerflor's new Housing Collection has flooring needs covered

From affordable to high-end, with unique benefits and different price points, Gerflor's new Housing Collection of innovative, vinyl flooring pushes the technical and aesthetical boundaries to provide fresh solutions for housing projects.

Comprising all types of residential vinyl flooring, the Housing Collection includes design-led, traditionally-bonded luxury vinyl tile and plank ranges and revolutionary, loose-lay floorings that are designed to turn houses into homes.

A core part of this new collection is Gerflor's high performance, textile-backed and advanced click system floorings that combine fast, cost-effective installation with the benefits of top quality vinyl.

These loose-lay floorings are the straightforward and glue-less way of fitting residential flooring. In particular, Gerflor Fibre Technology (GFT) floorings, which include a patented, built-in, multi-benefit, textile backing system, not only save time and money by eliminating adhesive, accelerating installation times and lowering

'on-floor' costs by up to 30 per cent compared with standard vinyl, but also reduce call-backs for remedial work by typically 75 per cent.

However, as design is a fundamental element of Gerflor flooring, the new Housing Collection showcases the global vinyl flooring manufacturer's expertise in the study of international design influences and key trends related to the world of fashion, interior design, architecture and surface finishes. With designs that also draw inspiration from natural materials such as wood, stone, marble and concrete, there are floorings to suit all tastes and decorative styles.

In addition, Gerflor's Housing Collection includes floorings with advanced thermal and acoustic properties, integral waterproofing and slip resistant, easy maintenance surface finishes, plus up to 15 year product guarantees.

This outstanding product offering is backed by a UK operation with a dedicated housing team, strategically located distribution centres and daily deliveries throughout the UK.

Gerflor's environmentally-sustainable products



are 100 per cent recyclable and widely specified within housing applications. They are manufactured at Gerflor's ISO 14001 certified production sites.

07860 632 280
www.gerflor.co.uk

The tap that combats disease, infection and headaches.

The Optitherm tap is designed to make life easy.

Its unique modular design allows for two stage installation and simple exchange for another when maintenance is required.

Once separated from the spigot, the maintenance job is made mobile and can be removed to the workshop – thus eliminating the headache of on-the-ward maintenance



01505 321 455
www.horne.co.uk/optitherm



KYDEX® sheet – helping to build a better healthcare future

When it comes to building a better healthcare future, James Latham's latest surface solution, KYDEX® Sheet, is the long-term partner you can trust.

The Company is now offering this high performance, exceptionally durable thermoplastic sheet that also promises to significantly enhance any healthcare environment or styling theme.

Supplied in a wide range of colours, textures and patterns, KYDEX® Sheet offers designers the ability to create an almost unlimited variety of flat and three-dimensional effects which can be achieved through techniques including thermoforming, membrane pressing, post forming, brake forming, laminating and machining. This allows different parts to be produced using the most efficient technique yet still match in appearance.

KYDEX® Sheet can be formed to compound corners and contoured edges, minimising the need



for moulding and edge banding and enabling large area installations to have the appearance of one seamless, single application. Even brand logos and messages can be embossed into the material.

With exceptional impact, chemical and scratch resistance, KYDEX® Sheet will not chip, crack, break, or snap, making it the perfect surface

solution for demanding, high traffic or high impact applications. Plus, Kydex® Sheet has antimicrobial properties that help in the fight against infectious outbreaks and the spread of contagious conditions.

Andrew Wright, director of James Latham commented, "The potential applications for KYDEX® are just so vast and it is already being used extensively in hospitals plus it's had a big impact with our customers in other sectors too such as the shop fitting, education and exhibition sectors."

KYDEX® sheet is available in over 3,500 colours, including granite, metallic and wood grain patterns as well as multiple surface textures and thicknesses from 0.71mm to 12mm. And if none of these choices meet your needs, then a unique, custom colour can be manufactured just for you.

0113 387 0850

www.advancedtechnicalpanels.co.uk

For hygienic indoor air – CERTO Air Humidifiers



Thermal Energy Components (TEC UK Ltd), a division of Klingenberg GmbH, are revolutionising the way in which healthy ambient air is supplied in buildings. CERTO Air Humidifiers offer a high performance, low consumption solution with patented technology that offers a clean, yet exceptionally maintenance-friendly solution.

The components (see image, right): vortex-generating and nozzle system (1), post-evaporator

(2), agglomerator (3) and high pressure pump station (4) are optimally matched to air handling units, guaranteeing best integration into systems. Andrew Patch, country manager – UK & Ireland, TEC UK Ltd, said, "CERTO represents hygienic and safe air humidification. It meets all the hygiene requirements set out by the Association of German Engineers and does so without using chemicals such as silver ions."

"The CERTO tolerates even high wind speeds with no loss of performance. Pressure loss is minimal and energy consumption is low. These humidifiers are also ideally suited for room air-conditioning through evaporation. We design your humidifier precisely to achieve constant 100 per cent moisture saturation for the room and air volumes present in your building," said Patch.

The CERTO is available as a complete unit with housing, or alternatively, as an element that can be installed in any air-conditioners, making it

the ideal solution as a retrofit or for upgrading existing systems.

TEC UK is a leading UK supplier of components for air handling systems. Its highly innovative products, including thermal wheels, plate heat exchangers and gas burners, make significant contributions toward saving energy resources and reducing CO₂ emissions.

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Making a Splash: Amwell Systems and Stebon Primary School

At the heart of Burdett Estates community lays Stebon Primary School, serving its local community and surrounding areas. Stebon Primary is a multi-faith, multi-cultural, multi-lingual school, with its pupils and staff hailing from over 20 different countries. Stebon is a two-form entry school currently expanding to a three-form entry school, and we were delighted to be a part of such a significant refurbishment for this thriving school.

With the school constantly growing, improving and moving from strength to strength, Amwell Systems understood how important it was for Stebon to have robust, reliable products to suit the needs of the school, its pupils and staff. With Amwell Systems having a great understanding of how important school toilet cubicles are to pupils, it was able to provide exactly what Stebon School wanted and needed. The company understands

school cubicles need to be inviting, child-friendly and safe. As well as this, it understands school cubicles need to be durable, strong, and great value for money.

With this in mind Amwell Systems' Splash and Acorn range were well-suited for Stebon Primary. Both were a perfect choice; Splash as it is a fun, vibrant washroom, yet is strong enough to withstand all sorts of rough and tumble and Acorn as it offers a versatile and practical washroom solution that looks inviting and works hard. With the gently rounded doors and sweeping divisions, the Acorn range was specifically chosen for Stebon's Reception class pupils. Not only does Amwell's cubicles have all this to offer, but they also come in a varied choice of spectacular colours and prints. Stebon Primary School chose to go with the Charcoal and Citrus for the Splash cubicles, as they continue with

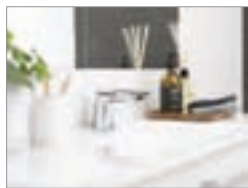
Stebon's fresh new colour scheme, which flows throughout the school!

Having successfully and proficiently completed Stebon Primary with Amwell products Akaal-Ltd has now become an approved installer for Amwell Systems. Harjender Singh Batchu, the director of Akaal-Ltd, had the following to say about Amwell: "Our experience with Amwell has been great. They provide a very personal service and have quality products that provide a high standard of finish. Installation was very straight-forward, as fitting instructions were easy to follow. Going forward, we would definitely recommend the Amwell brand to our clients."

01763 276200 www.amwell-systems.com



Methven taps into design



Following the successful launch of its stunning Aio shower range, **Methven**, the global designer and manufacturer of premium showers and tapware, has extended the collection with the addition of complementary tapware. The new tapware range is manufactured from Eco Brass® – a revolutionary high quality, high strength material which is lead and heavy metal free, providing enhanced corrosion resistance and therefore preserves water quality. Aio tapware is characterised by sophisticated simplicity, with an integrated lever and body design combined with precision engineering. The tapware collection features a variety of models, designs and sizes suitable for all water pressure systems.

One book and three new appointments



Methven, the global designer and manufacturer of premium showers and tapware, has strengthened its sales and marketing function with the launch of its new brochure and the appointment of three area sales managers. The new 'One Book' features showers, taps and accessories from both Methven and Deva – the first

time that products from both brands have been published together. The sales team itself has recently seen three new appointments, increasing Methven's support to customers across the UK. Aaron Hughes will oversee Methven's sales operations in central and eastern regions; Rachael Gray (pictured) will look after the South East; and Jordan McLeod will be taking care of Scotland.

08001951602 www.methven.com

West End wet rooms benefit from elegance of Dallmer drainage channels



A high specification refurbishment and extension project at a residential property in a desirable area of West London has included installation of linear shower drains selected from the extensive range of **Dallmer Limited**. The project on the home in Lansdowne Road was carried out by J&Z Construction Ltd under the supervision of the company's own architects. Two stylish shower spaces were created: one designed as a wet room while the other featured a two metre high glass wall set into a floor channel, with a rain head over. J&Z Construction's interior designers chose products from the Dallmer range to ensure water was removed unobtrusively but effectively from the floor. Dallmer supplied two of its Ceraline-W-800 mm floor channels with Ceraline Custom cover plates. In both cases the floor drains, with their adjustable ball joint outlet connection, have a flow capacity of at least 48 litres/minute, were installed along the base of the back wall to the showering area, with the client's preferred floor finish fitting seamlessly around and into the elegantly engineered channel sections. The height adjustable floor channels feature sound absorbing leveling legs and the drain body has an easily removeable trap. Like the cover plates, they are manufactured from 304 grade stainless steel and they incorporate a sand-coated flange for the secure bonding of under tile waterproofing membranes.

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Shaws Classic Double Bowl

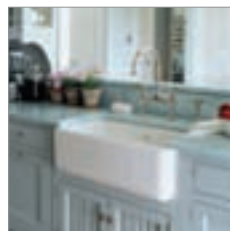


The **Shaws** fireclay Classic Double Bowl sink comes with a central dividing wall and is available in both white and biscuit finishes. Each bowl has central 3½" waste outlets to accommodate basket strainer or waste disposer and traditional style round overflows. Available in two sizes, 800 and 1000, these double bowl sinks require bespoke cabinetry due to their weight.

The Shaws range of basket strainers are manufactured in chrome, nickel, gold and antique bronze, with ceramic indices with the Shaws logo to finish off the 'look' and co-ordinate with the range of taps.

01254 775111 www.shawsofdarwen.com

Classic butler sink from Shaws of Darwen

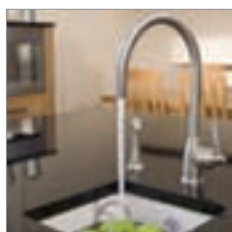


This deep, heavyweight Victorian style, English made fireclay ceramic sink from **Shaws of Darwen** has a round overflow and central 3½" waste outlet. This beautiful Classic Butler 'statement' sink is available in White and Biscuit finishes and can be completed with a basket strainer waste complete with ceramic indices with the Shaws logo, to 'finish off

the look'. Shaws recommend, due to the weight of the Classic Butler sink, that bespoke cabinetry is in place prior to installation. For more information visit the Shaws of Darwen website.

01254 775111 www.shawsofdarwen.com

Belthorn from Shaws of Darwen



Inspired design and superb craftsmanship are combined in the **Shaws of Darwen** Inset and Undermount range, an elegant collection of 'made in England' fireclay ceramic sinks in both white and biscuit finishes. The Belthorn undermounted sink features the Shaws logo on the back of the sink but has no overflow. It has a central 3½ inch waste outlet suitable for a

basket strainer or waste disposer. The sink works perfectly with granite, marble or wooden work surfaces. Visit the company website to see the complete range of sinks, taps and accessories available.

01254 775111 www.shawsofdarwen.com

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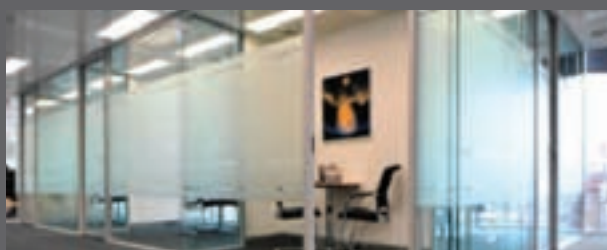


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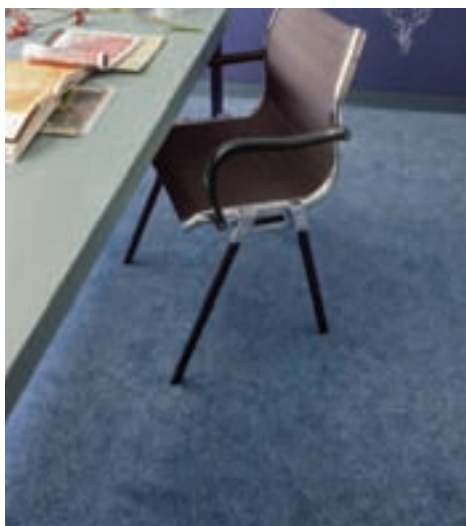
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RMIG appears on *The House That 100k Built*

RMIG has helped an ambitious couple on BBC TWO show *The House That 100k Built* to successfully build their dream home in Burnley. One of the world's leading perforated materials specialists was shown on the programme and delivered an eye-catching perforated decorative panel that would transform the dull staircase into a striking centrepiece of the home's downstairs.

With Wajid and Anam keen to create a unique wow-factor within their six-bedroom Burnley home, the couple required a perforated screen that would further enhance the aesthetically pleasing nature of the large hall-way and complement the other areas of the glamorous home.

RMIG worked very closely with Wajid and Anam during the consultation period and specified a 3mm thick aluminium screen featuring Islamic script that was extremely personal to the couple. Using its innovative ImagePerf technology, RMIG expanded on Anam's artistic designs and produced a stylish and tasteful floor to ceiling perforated screen, finished in an RAL 1036 Bronze Satin polyester powder coating. With the couple's time and budget constraints in mind, RMIG delivered the high quality and stunning screen in a cost and time effective manner, much to the appreciation of Wajid and Anam who were keen to move into the finished home with their new born baby at the earliest possibility.

The metal screen received positive reviews from both a delighted Wajid and Anam, who commented on its uniqueness during the show, transforming what would otherwise have been dull and wasted space into something fantastic.



RMIG can perforate sheet metal to meet any desired style, producing limitless designs and patterns to achieve unique and attention-grabbing architectural visions. To learn more about RMIG and its full service offerings, please visit the RMIG website.

The House That 100K Built is produced by Remarkable Television, part of Endemol Shine Group.

01925 839 600 www.city-emotion.com

Keeping the exhibits safe at the National Civil War Centre in Newark

This magnificent Tudor Hall was built in 1529 by prominent local resident Thomas Magnus for use as a free school. Subsequently extended during the Georgian and Victorian eras the complex is now known as the Old Magnus Buildings and home to the National Civil War Centre.

Up until 2004 the buildings were in constant use, first as a school until 1910, then as the town's museum until 2004 when it fell into disrepair. Newark and Sherwood District Council was awarded Heritage Lottery Funding to restore and transform the Old Magnus Buildings into a new museum and National Civil War Centre continuing Thomas Magnus' vision for all to have access to education, the new museum will also be a centre for Civil War learning.

Home to many important historical artefacts and some graffiti dating back to early 1600s, security was high on the agenda when plans were

first made for the buildings restoration. As the buildings are Listed any security measures taken had to be sympathetic to the buildings elegance and historical significance. The Architects Purcell and the Main Contractor Woodhead Heritage turned to Selectaglaze to provide protection to the vulnerable window openings. Secondary glazing is the ideal solution for Listed and historic buildings even when high security is required, as it offers performance in a fully reversible adaption which is accepted by most heritage bodies.

Selectaglaze treated 45 window openings with 6 different product styles including curved units in four different colours. Varying levels of security were provided, using products certified to Loss Prevention standard LPS 1175 level SR3 and those meeting the security standards of PAS24, all accredited to Secured by Design.

Secondary glazing can achieve a U-value of around 1.9, noise reduction of 42-45dB, and even



in its most basic form a barrier to potential intruders. Selectaglaze boasts a wide range of products that can provide these various benefits.

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- Four ABS 350 Circular WINDCATCHER systems in the Meeting Room, Library, Sensory Room and small office
- One COOL-PHASE unit in the ICT Room

Matt Peplow, business & operations manager Alderman Knight School commented on the systems: "Throughout our school there were very few rooms that suffered with no ventilation. All of our classrooms either have openable north lights or external doors. However we did have an ICT Suite, an Office and a Meeting Room with no external windows so we decided to

utilise the Monodraught WINDCATCHER and COOL-PHASE systems within these spaces. The COOL-PHASE system that we have in the ICT Suite manages the temperature of the room very well and whilst you may lose an element of control that you get with Air-Conditioning, you are reducing the energy consumption that you are using to cool the space. We also had some WINDCATCHER systems installed in the Main Hall which is very useful when the Hall is packed up over a period of time. It makes a big difference in terms of the levels of CO₂ and quality of the air".

Data was collected from the COOL-PHASE unit installed between June 7th 2012 and March 30th 2015.

The Monodraught COOL-PHASE system has met the design criteria and specification requested providing fresh air, ensuring CO₂ levels remain within acceptable boundaries and keeping temperatures within acceptable level.

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Olympic Way

The redevelopment of Shubette House, at 5 Olympic Way, Wembley offers a unique opportunity to deliver a new mixed use development of the highest quality, delivering much needed housing and amenity provision to the area and presenting a genuine catalyst for future development of the area.

This landmark, innovative, mixed use development sits at a prominent junction adjacent to Olympic Way, the main pedestrian route connecting Wembley Station and Stadium. On site and nearing completion, the scheme is the second tallest modular building in London, designed around a central courtyard with a 20 storey residential tower rising from a seven storey block of housing on the southern boundary. To the west, fronting Olympic Way, is a 12 storey block with retail and a 237 room hotel. A lower four storey wing returns along the northern boundary to complete the central courtyard.

In 1999 planning was granted to demolish the former clothing warehouse and replace it with a large hotel development. This was subsequently deemed unviable and the client approached HTA to design a new mixed use, residential led scheme. After a year of collaboration with Brent Council the development was presented to the GLA in May 2008 and again in October 2008, where it was positively received. The planning application was submitted in late 2008 with permission granted in June 2009.



Aside from its innovative volumetric construction credentials, the project is significant because as a key first piece of the masterplan to be delivered it sets the standard for the regeneration of Olympic Way. Furthermore, it provides an exemplar model for mixed use development; achieved through a carefully considered juxtaposition of uses, a blend of public vs. private space and access, and a successful balancing of the need for privacy, security and shelter against the need for open aspect, views, and increased footfall for retail/commercial offer. The new appearance of Olympic Way: a rear-ventilated ALUCOBOND® spectra

Cupral facade now features an eye-catching metallic shimmer. 1,100 m² of ALUCOBOND® panels envelop the building.

The buildings were designed from the outset to be constructed with the Vision Modular System, a volumetric solution that delivers advantages in speed of construction, efficiency of the building fabric and the quality of the finished homes.

Paul Herbert,
Specification Manager
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Civic Supermarket

An elegant, contemporary colonnade clad in Nordic Bronze from Aurubis adds a sense of civic permanence to this city-centre supermarket, taking retail architecture to a new level.

On a key route into the heart of Chester, the flagship Waitrose store is fully integrated with a new public realm including a pedestrian bridge across the canal. As part of a master-plan for the area, alignment of the supermarket and the adjoining walkway enhance views of the historic 'shot tower', adding to its role as a landmark.

Nordic Bronze was selected at an early design stage for the colonnade and other façade elements. The building's designer Matt Brook, director of architects Broadway Malyan, said: "We wanted to use a material for the expressed frame that would reference the area's industrial heritage, particularly of metalworking. In addition, the strong, natural colour of the gradually weathering bronze complements the surrounding historic brick and sandstone buildings."

The colonnade and primary structural elements expressed on the exterior of the building are set out on a 7.9m structural grid and clad in sheet Nordic Bronze, with the principal elevations being clad in either perforated Nordic Bronze or glazed with a curtain wall capped with perforated Nordic Bronze fins. Both are set out vertically on a 1.128m grid sub-module of the primary structural grid.

Nordic Bronze is produced by Aurubis, part of the world's leading integrated copper group and largest copper recycler. Other copper alloys include Nordic Brass – now also available pre-weathered – and the innovative Nordic Royal with a long-lasting golden colour. In addition to Nordic Standard copper, other Aurubis Architectural surfaces include various Nordic Green and Nordic Blue factory-applied patinas – developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world. Nordic Brown pre-oxidised copper gives either light or dark brown oxidation that otherwise takes time to develop in the environment.



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Five real reasons to choose steel

Lindab often get questions about comparisons of different materials. Frequently the choice is between steel versus plastic or aluminium. The choice at Lindab is, and has always been, steel.

Most of these arguments go for all steel systems, but Lindab think that even more can be added to this fantastic material. Lindab has been processing steel for more than 50 years.

1. Steel has the lowest carbon footprint of all rainwater systems materials

With steel you get a cost effective and environmental friendly installation that is 100 per cent recyclable. Lindab's Rainline system is made from sheet steel, a raw material that has a natural place in today's approach towards sustainability.

2. Steel stays in shape

Virtually all materials are affected by differences in temperature and grow and shrink as the weather changes. Compared to aluminium and plastic, steel



has a lot smaller movement factor. This means that your installation is much more likely to last as connections and fixation points won't take such a beating as with other materials.

3. It's really long lived

A rainwater system made of steel can last in excess of 70 years. To aid to the lifespan Lindab rustproofs the material with a 275 grams zinc coating. This gives the system a self-healing quality where scratches and cuts are automatically sealed by zinc ions that migrate to re-coat the uncovered steel.

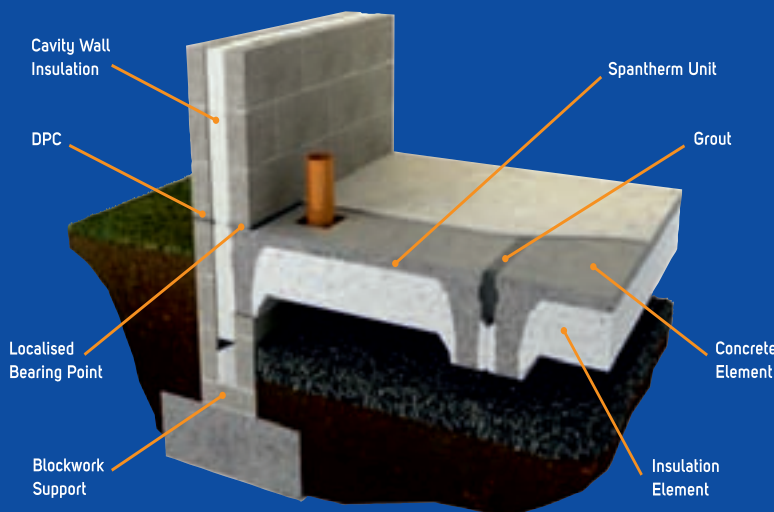
4. Strong as steel

Steel is the foundation of all modern construction, and there is a reason for that. Steel is strong. Snow, hail, falling tree branches and other circumstances can easily break a rainwater system made from aluminis or plastic materials. And even though Lindab recommend that you are careful during the installation, a steel system is much more heavy duty than its competitors.

5. Steel is actually cheaper than plastic or aluminium

The initial cost for a steel rainwater system is higher. We're not saying that it's not. But if you take into consideration the lifespan and maintenance needed for the respective systems, you actually save money. The life cycle cost for a steel system is considerably lower than any other system out there.

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What is Spantherm?

Spantherm is a pre-insulated precast concrete flooring system designed specifically for residential and mid-sized commercial ground floors. The composite slab combines structural concrete and high performance Expanded Polystyrene (EPS) insulation to provide a superior, structural thermal floor.

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- ✓ Durable and robust





Rodeca helps set a template for new school buildings

Transparent rainscreen cladding from Rodeca has been used on an “innovative, sustainable and economical” template for new school buildings.

Rodeca's 60mm PC 2560-12 wall panels in Kristall finish were specified by architects Urban Projects Bureau for the front elevation of a £1.1million new sixth form centre at Graveney School in Tooting, south-west London.

The practice has worked with the Graveney Trust on many projects over the past four years and the new sixth form block is the result of a positive collaboration between the school staff, students and design team.

The 750m², two-storey building to the rear of the site, provides valuable extra teaching, study and events spaces, and a positive contribution to Graveney's campus and host of fine architectural buildings.

Rules by the Academies Capital Maintenance Fund meant it had to be delivered on a tight

schedule and budget, with a target cost per m² way below current guidelines.

The school considered buying an off-the-peg prefab block but were unconvinced about the quality of accommodation it would provide as well as its location behind the Grade II listed Furzedown House which meant generic prefabs would be difficult to get through planning. As it was the planners requested samples of the materials proposed for its construction.

The new sixth form centre comprises eight 57m² classrooms, four staff offices and double-height independent study space with balconies and gallery.

Matthew Jeniec of Urban Projects Bureau said they met the brief by “rationalising the floor plans to exclude unnecessary space such as corridors, utilising prefabricated construction techniques (CLT) and leaving materials and services exposed.”

He added that the Rodeca polycarbonate cladding, which gives U-values of 0.75 W/m²K and light transmittance of up to 80 per cent and



was installed by specialist sub-contractor Roclad Systems, was specified for its “contemporary, clean aesthetic, transparency and economics.

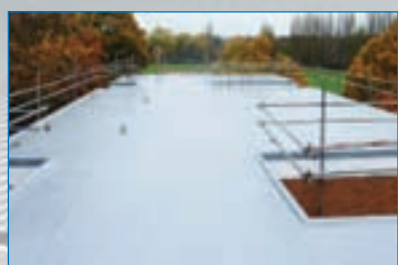
“It provided the potential to display the building structure through the facade which was key to the flat-pack/tectonic aesthetic of the building. There was little budget for expensive materials or interior finishes so the tectonics and construction – its CLT frame, panels, claddings and openings – are what give the building its character.”

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Cuilcagh Boardwalk – Northern Ireland



Cuilcagh Mountain Park in County Fermanagh is a “Wetland of International Importance” as designated by the Ramsar Convention as well as being a Special Area of Conservation (SAC), an Area of Special Scientific Interest (ASSI) and a Natura 2000 site. So when the next stage of development for this area was planned, one of the longest wooden boardwalks in the world, it was vital that timber used would be of the highest quality and an environmentally sound choice.

Local Company R.T.D. Crawford Ltd were ideally suited to supply the MicroPro treated timber with the new MicroShades brown colour additive to fulfil the specification for this 1.6km boardwalk, as they are the only producer of MicroPro treated timber in Ireland. Robert Allen, General Manager, at RTD Crawford stated: “The MicroPro treated timber process is the only timber treatment that is certified as an Environmentally Preferable Product based on Life Cycle Assessment studies. MicroPro is the preferred timber treatment to be used in environmentally sensitive areas.”

“This path is solely to protect the habitat. It has taken thousands of years to develop this naturally. The area is botanically rich with a very diverse range of species of birds, plants and insects” says Richard Watson, Manager of the Marble Arch Caves Global Geopark, which is located near the

entrance of the new boardwalk. “This is another chapter in the development of the area which continues to bring thousands of visitors to the area to enjoy the outdoor environment which is particularly special in terms of landscape features.

The design of the MicroPro treated timber boardwalk means that it sits or “floats” above the terrain leaving it undisturbed. The new treated timber boardwalk protects the rare blanket bog from erosion caused by walkers. MicroPro treated timber was used throughout the project to protect the boardwalk from difficult weather conditions and to protect the sensitive environment of the park.

The boardwalk provides visitors with breathtaking views of the area with the most impressive site being Lough Atona, a lake nestled at the foot of the mountain which was carved out by a glacier during the last ice age approximately 13,000 years ago.

R.T.D. Crawford Ltd is located on a 44 acre site in the heart of Lisbellaw in Co. Fermanagh. The site is home to a modern timber milling facility, producing planned timber for all end uses. The company despatches timber throughout Ireland on a daily basis.

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RENSON® in Maidstone: Also strong in customised solutions

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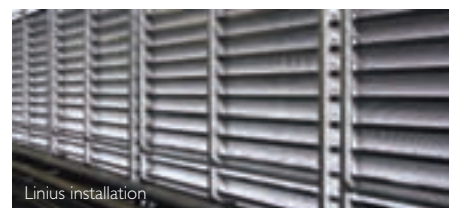
Customised solution with louvre panel with damper

as customised solutions to the construction market and offers architects, specifiers, developers, fabricators and installers a wide range of innovative systems. Product ranges include window ventilators, louvres and continuous louvre systems as well as hinges, sun protection elements with aluminium blades and screens and terrace covers.

Acoustic solutions

The Invisivent®EVO HR provides the ideal solution for wind-impacted applications such as high-rise buildings and apartment buildings on the coast. This self-regulating thermally broken flap ventilator, installed above the window frame, offers a maximum airflow of 15.9 l/s/m at 2 Pa and a sound reduction in open position up to 42 dB.

The louvres and the Linius® continuous louvre system of RENSON® are aesthetic aluminium solutions, allowing the passage of air in and out of buildings while protecting these buildings and other installations from wind, rain and vermin.



Linius installation

Strong in customised solutions

For various applications in the UK, the project team of RENSON® has been developing special ventilation solutions with louvre panels, combined with options, such as dampers or an insulation stack on the backside. By integrating such special glazed-in louvre panels with insulation on every window of a building, architects and installers not only take care of ventilation and thermal resistance, but also add an additional architectural dimension to the facade of the building.

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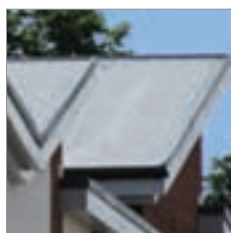
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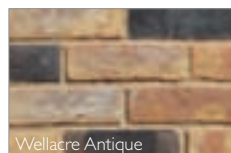


Following the lead of the Egyptians who used glass fibre reinforcement, GRP or “Glass Reinforced Polyester” was developed for a wide range of applications by the British military during WW2.

Hambleside Danelaw think GRP is ideal for roofing as it is a strong, lightweight material which is naturally watertight, aesthetically pleasing and has great

longevity. Its bulk strength and weight being better than many metals mean that it can be readily moulded into complex shapes and can be used for a wide variety of roof coverings. It also benefits from being fire retardant, easy to handle and UV resistant.

Northcot Brick launches yellow handmades



Northcot Brick, one of the UK's foremost independent brick manufacturers, has launched a new range of classic yellow bricks as part of the planned extension of its well-established handmade range. The three new blends: Woodstock Weathered, Wellacre Antique and Marlborough

Mellow add variation to the already much sought after rich warm reds and orange hues often associated with the historic brickworks. These distinctive yellow bricks offer subtle variations in tone and texture and a character designed to complement the architecture of the south and south east of England, being reminiscent of the traditional stock bricks often found in London and the South East.

01386 700551 www.northcotbrick.co.uk

Daylight leads in Leeds college



The new campus for Leeds College of Building was designed by architects Fuse Studios, as the result of winning a major design competition. Using its skills to seamlessly integrate architecture and interiors, Fuse has fulfilled the College's brief to promote the use of modern materials and construction methods, so the new project becomes an educational demonstration in its own right, as well as supporting BREEAM excellence. Materials specified included the diffused daylighting Kalwall cladding and roofing system. Consistent with the winning design was a desire for internal transparency between all areas and a naturally-lit teaching environment which would not generate excessive solar heat gains. At the same time, it was recognised that too much glazing could distract the students, so the solution was to use translucent Kalwall. Derek Whitehead, Deputy Principal, Leeds College of Building, comments: “We're really pleased we went with the Kalwall solution for this project. The extra daylight really enhances the space and makes it very airy, light and bright. This has the benefits of not only reducing our energy consumption on one hand but, more importantly, creates a pleasant ambient light which enhances the health and well-being of our students and staff.” Kalwall is distributed in England, Wales and Northern Ireland by **Structura UK**, a leading supplier, fabricator and installer of glass curtain walling, rainscreens, glass atria and windows.



Hauraton surface drainage systems installed

Early in 2012 it was decided to refurbish the older building at Maltby Academy and build a new open plan business / enterprise centre and sport science block. In addition, the old gymnasium was to be converted into a performing and creative arts facility. The £10.9 million contract for the re-development was awarded to BAM Construction of Leeds, in June 2012. The site was fully operational by September 2013. Architects for the new buildings were Bond Bryan, Sheffield office. With the site being quite flat, and the old and new buildings' surrounded by paved and asphalted surfaces, it was essential rainwater is drained effectively. Two **Hauraton** channel systems were chosen to drain surface water: RECYFIX® PRO 100 with FIBRETEC® C250 gratings for the asphalted yards and car park and RECYFIX® SLOTTED channels for the paved walkways, these providing an unobtrusive, narrow line of slots in the paved surfaces. For the full Case Study, please visit the website.

01582 501 380 www.drainage-projects.co.uk



CMS windows provide Fyne views to retreat

A luxury west coast of Scotland retreat has opened a new spa and leisure complex featuring windows, doors and curtain walling manufactured and installed by **CMS Window Systems**. The £10 million development by Portavadie Estates includes a 16-metre indoor pool, outdoor spa pools, two Scandinavian saunas, fully equipped gymnasium and spa, cafe and the largest heated outdoor infinity pool in Scotland. The glazing specification by CMS ensures the new facilities enjoy stunning floor to ceiling views across Loch Fyne and beyond to the Isle of Arran, bringing nature right into the facility and flooding the building with light. CMS manufactured and installed all the thermally enhanced curtain walling and windows for the building envelope – these were created using a combination of the advanced SCW+ system, Senior Hybrid Systems and the SPW600 system. The project is typical of the high quality contracts that CMS undertakes across the UK.

01324 841398 www.cmswindows.com

Refresh roofline with Anthracite Grey woodgrain



With the increasing popularity of grey window frames and colour composite doors **Freefoam**, a leading manufacturer of a wide range of innovative products for the building industry, announce the addition of Anthracite Grey woodgrain to its extensive roofline range. Six widths of Fascia and eight widths of Soffit along with matching Corners, Joiners and Trims in RAL 7016 equivalent gives specifiers, property developers and installers a comprehensive product range with an attractive contemporary woodgrain finish. Freefoam woodgrain products are manufactured using Exofol PVC film provided by leading supplier Renolit. This robust exterior grade film consists of two layers, the woodgrain finish in the base film uses Solar Shield Technology to protect the cladding against excessive heat build-up and the upper transparent layer prevents against fading caused by UV radiation or other weathering effects. These additions underline Freefoam's position as the colour specialist. In addition to foiled products, Freefoam manufacture an industry leading range of co-extruded fascia, soffit and trims in ten colours using its patented Colormax™ technology. Featuring built in colourfastness, colour variety, and reliable colour matching, all with a ten year guarantee, the range offers choice to architects, specifiers, property developers and homeowners.

Freefoam launch new style woodgrain shiplap cladding



As part of the continuing development of its cladding ranges **Freefoam** has now launched a new smooth style 150mm wide shiplap cladding. Available in bright white and an attractive range of traditional woodgrain shades including Mahogany, Light Oak, Rosewood and Black, Freefoam has also added a new more contemporary colour finish, Anthracite Grey, to meet the demands of a developing market. PVC-U woodgrain cladding is a popular low maintenance option often used for dormer extensions and detailing on external areas. Freefoam monitor trends in the marketplace and have responded to the growing popularity of grey windows and doors by adding a new Anthracite Grey woodgrain option. The new 150mm Shiplap cladding features a modified right angle leg designed to fit perfectly with the new generic standard range of cladding trims launched earlier this year. Freefoam recognise the capital investment in stocking items with multiple trims so have developed an innovative generic range of cladding accessories that are designed to work with the complete range of cladding products from the narrow 100mm wide Open V cladding right up to the Fortex Pro 333mm wide double shiplap board. Freefoam work with world leading foil provider Renolit using the Exofol PVC film for all woodgrain products to provide a durable fade resistant product.



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Demand-controlled ventilation by Renson®



For several years, Renson has been developing very successful ventilation systems. Its demand-controlled ventilation system with the Healthbox® ensures the house is optimally ventilated, according to the resident's

activities. This ventilation system really can help homes reduce their energy consumption while creating a healthy indoor environment.

Renson's demand-controlled ventilation system combines the constant supply of fresh air through self-regulating vents and the extraction on-demand of polluted air thanks to the central extraction unit Healthbox®. Dynamic sensors measure the extraction air 24 hours a day on CO₂ or humidity and/or VOCs and adapt the ventilation level to the needs of the residents in an intelligent way. In this way, the system makes a healthy indoor environment possible.

Operate without errors

The Healthbox® is installed in an unused corner in the attic or in a technical room. In the kitchen, bathroom, toilet or any other room where the polluted air is extracted, the user only sees an aluminium design vent. The fan is calibrated fully automatically and regulates itself so as to achieve the exact extraction capacity for each room.

This avoids the risk of adjustment errors, thereby ensuring a properly working ventilation system with a proper flow rate in each room. This automatic calibration also leads to significant time savings, as installation takes only a couple of minutes.

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Improved colour coating on galvanised steel gutter systems

Galvanised Steel is a great product for gutters and downpipes as its stylish looks are long-lasting. It doesn't fade. And now Rainclear Systems' Steel Gutters, downpipes and fittings, designed and manufactured by Zambelli in Germany, come with new 'robust' colour coating in a choice of 5 colours held in stock for next day delivery.

The lightweight and innovative easy dry joint design of the Zambelli Steel rainwater system make it easy to handle and fit.

With a 15 year product warranty and a life expectancy of at least 25 years, the 3 layer colour coated Robust system will provides trouble free performance

New ROBUST colour coated system

As the name implies, ROBUST is an innovative coating system that is extremely hard wearing. The

coating consists of three layers of protection comprising zinc corrosion protection, primer bonding coat and a 'Robust' polyester top coat. The surface coating is UV and scratch resistant.

The demand for steel guttering has never been higher with homeowners and selfbuilders looking for this stylish, premium quality rainwater solution at a price tag that is closer to premium uPVC than heritage Cast iron or Aluminium. For example, the complete rainwater system on an average 3 bed detached home could be supplied for around £300 +VAT.

Geraint Jones, Managing Director of Rainclear Systems, explains why: "These Galvanised Steel products are a very competitive alternative to uPVC ones, but the steel system looks and last better while offering clever design features which make it easy to fit; push-on stop-ends and rubber lined unions mean there's no need to use silicone; the fully adjustable outlets can be placed anywhere



within a 3m gutter length or you can purchase ready-made outlets if you find that easier."

The company's half round galvanised steel gutters are deeper than other comparable systems on the market giving them a 20 per cent larger capacity."

The steel system is made of highly durable, recyclable metal and comes in either galvanised or colour coated. The stocked colour coated shades are Black, Anthracite Grey, Dusty Grey, Grey White and Sepia Brown with next day delivery.

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Levolux grid covers cars in Leeds



Following a £9 million refurbishment project, the 50 year old Merrion Centre multi-storey car park in the centre of Leeds, has been dramatically revamped, including a custom Screening Solution from **Levolux**. As one of the UK's leading Solar Shading and Screening specialists, **Levolux** was invited to develop a custom Screening Solution for the multi-storey car park. The solution incorporates rectangular-section Fins, arranged in a 'diagrid' pattern and horizontal aerofoil-shaped Fins. The unusual 'diagrid' arrangement of rectangular-shaped aluminium Fins, each measuring 200mm wide by 100mm deep. All Fins are engineered from extruded aluminium components that have been given an attractive, natural anodised finish.

neaco delivers clear views of the cricket



Photograph supplied courtesy
Cardy Construction

neaco's glass panelled balconies are helping to maximise the benefits of a unique outlook, overlooking Kent's County Cricket Ground at Lime Tree House, a prestigious apartment development in Canterbury designed by Clague Architects and built by Cardy Construction. **neaco's** UK business development manager, Peter Melia, said:

"Maximum visibility is one of the defining features of our balconies. The use of glass panels and minimal or no stanchions provides a transparent view and also makes the most of natural light with maximum sunlight penetration."

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Desert Sand, Mocha

Mocha Type 300 Flush

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neaco roof walkways handle technical challenges



neaco's roof access walkway products have been specified at The Curve, Teesside University's new £20 million flagship building comprising 1,476 square metres of innovative teaching and learning space.

neaco's aluminium walkways were chosen by Eurosafe Solutions, a leading European specialist in fall protection and access solutions, as components of systems which comply with Work At Height Regulations and British Standards in providing approximately 210 linear metres of safe walking area for roof inspection and maintenance operatives.

Sam Wakeling, sales estimator at Eurosafe Solutions, said: "neaco's products were ideal for the demanding technical requirements of this project which included a curved roof structure – the walkway is a versatile system which has the ability to adapt to its curvature. It's also very strong, robust and looks great in comparison to plastic alternatives on the market."

neaco's UK Business Development Manager, Peter Melia, said: "Our roof access products are widely specified at major projects across the globe as part of Kalzip Quick Fix Grillage and ManSafe systems. Like The Curve, many of these projects have contoured roof designs which require the kind of adaptability which is a major advantage of our systems."

All's well in Sandwell – thanks to Trespa



High quality and low waste were key factors in the use of **Trespa**® exterior cladding panels for a West Midlands high-rise refurbishment scheme. Charlemont Farm Estate in West Bromwich was constructed in the early 1960s as a mix of low- and high-rise dwellings. Four nine-storey blocks, of concrete frame structure with facing brickwork and blockwork cavity wall infill panels were built in 1961. Sandwell Council's Urban Design and Building Services department was tasked with producing refurbishment proposals that would provide at least another 30 years' life span for the blocks. The specification had to include full use of recycled and sustainable materials. With the work on the blocks now complete the most noticeable transformation is in the external appearance, thanks to the use of Trespa® Meteon® Wood Decors exterior wood tone cladding. Trespa® Meteon® panels perform exceptionally well outdoors with neither sun nor rain having any significant effect on the surface. The high-pressure compact laminate with an integral surface is manufactured using Trespa's unique in-house technologies that utilise dry-forming and electron beam curing. A mix of Trespa® Meteon® panels covering 2,300 square metres was used on each block in addition to 900 square metres of Slate Wood. All panels were 8mm thick FR Grade.

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A recent fire at a block of flats in Pixton demonstrated the necessity of specifying the right fire doors for your new build or refurbishment works. Luckily, nobody was injured in the blaze, and the **Nationwide Windows**' fire doors that were fitted did exactly what they were supposed to do. Chris Costall, Health, Safety & Environmental Manager at Nationwide Windows said: "We are obviously very thankful that nobody was injured at the Pixton flats. There are several critical processes from the point of fire door specification to installation in homes. While some companies are approved to manufacture the doors, these high levels are then not always matched when it comes to the fitting process, and this can create a crucial break point in what should be a water tight process. Our status as third party accredited Q-Mark approved manufacturers and installers of fire doors means that we are able to bridge that break point for our customers."

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Demand-controlled ventilation by Renson®



For several years, Renson has been developing very successful ventilation systems. Its demand-controlled ventilation system with the Healthbox® ensures the house is optimally ventilated, according to the resident's

activities. This ventilation system really can help homes reduce their energy consumption while creating a healthy indoor environment.

Renson's demand-controlled ventilation system combines the constant supply of fresh air through self-regulating vents and the extraction on-demand of polluted air thanks to the central extraction unit Healthbox®. Dynamic sensors measure the extraction air 24 hours a day on CO₂ or humidity and/or VOCs and adapt the ventilation level to the needs of the residents in an intelligent way. In this way, the system makes a healthy indoor environment possible.

Operate without errors

The Healthbox® is installed in an unused corner in the attic or in a technical room. In the kitchen, bathroom, toilet or any other room where the polluted air is extracted, the user only sees an aluminium design vent. The fan is calibrated fully automatically and regulates itself so as to achieve the exact extraction capacity for each room.

This avoids the risk of adjustment errors, thereby ensuring a properly working ventilation system with a proper flow rate in each room. This automatic calibration also leads to significant time savings, as installation takes only a couple of minutes.

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Levolux delivers a 'super' seven



Levolux has delivered one of its largest and most challenging Solar Shading solutions for Chiswick Park's Building 7 in West London. The impressive 12-storey building, which provides 334,000 sq feet of Grade 'A' office accommodation, represents the final piece of the Chiswick Park masterplan, which was conceived back in 1999. In line with other, recently completed buildings on the site, Rogers

Stirk Harbour + Partners designed Building 7 to achieve a BREEAM rating of 'excellent' by adopting the very latest building technology, including a fully automated Solar Shading solution from Levolux. The solution comprises motorised external 'Super Louvres', which are linked to an intelligent control system, along with internal Venetian Blinds and Roller Blinds.

Versatile Hydro-Brake® agile expands options



Hydro International is launching the Hydro-Brake® Agile flow control, marking a significant new opportunity for highly-efficient surface water attenuation with the lowest-possible flood storage volumes to meet stringent planning and Sustainable Drainage Systems (SuDS) requirements. The Hydro-

Brake® Agile meets stringent stipulations for surface water discharge rates and can be engineered to achieve the lowest-possible flood storage. It can therefore help developers meet strict planning requirements and ensure acceptance by adopting authorities, while reducing land take and construction costs.

01275 337937 www.hydro-int.com



Canaletto tower balconies incorporate Schöck Isokorb



The Canaletto residential tower at 257 City Road in London is 31-storeys with 190 luxury one, two and three bedroom apartments built to the standards of Code 4 Sustainable Homes Level 4. The tower is concrete frame and has a curving facade of metal and glass that breaks the volume into a series of three-to-four storey clusters, each containing grouped balcony terraces. The balconies are steel construction connected to the concrete frame and as always

with cantilever construction elements, one of the early design considerations was the prevention of thermal bridging.

Thermal bridge heat losses are responsible for an increasing percentage of overall building heat loss, due to airtightness and fabric U-values being improved in UK Building Regulations. Thermal modelling calculations show that for multi-residential projects such as large apartment blocks, thermal bridges could account for 20-30 per cent of thermal losses, with balcony connections being a major contributor if effective thermal isolation is not incorporated.¹

The Isokorb range of thermal break elements from Schöck is designed to combat thermal bridging and for the high specification Canaletto project the Isokorb type KS20 offers the ideal solution. This concrete-to-steel connectivity module sits between the outer and inner structural connection points and blocks the outflow of heat

through the use of high quality polystyrene insulation foam. There are tension and shear stainless steel bars passing through it, which take the forces between the building frame and the balconies, enabling a thermally insulated, load bearing connection to be made.

The Isokorb range provides a huge selection of solutions for concrete-to-concrete and steel-to-steel, as well as concrete-to-steel – and the entire range offers the security of BBA Certification and LABC Registration. It also comfortably exceeds the requirements of BRE IP1/06 and Part L of the Building Regulations where the temperature factor used to indicate condensation and mould growth risk (fRSI) must be greater than, or equal to, 0.75 for residential buildings.

¹ For your free copy of the new Thermal Bridging Guide and / or the Schöck Specifiers Guide – contact the company.

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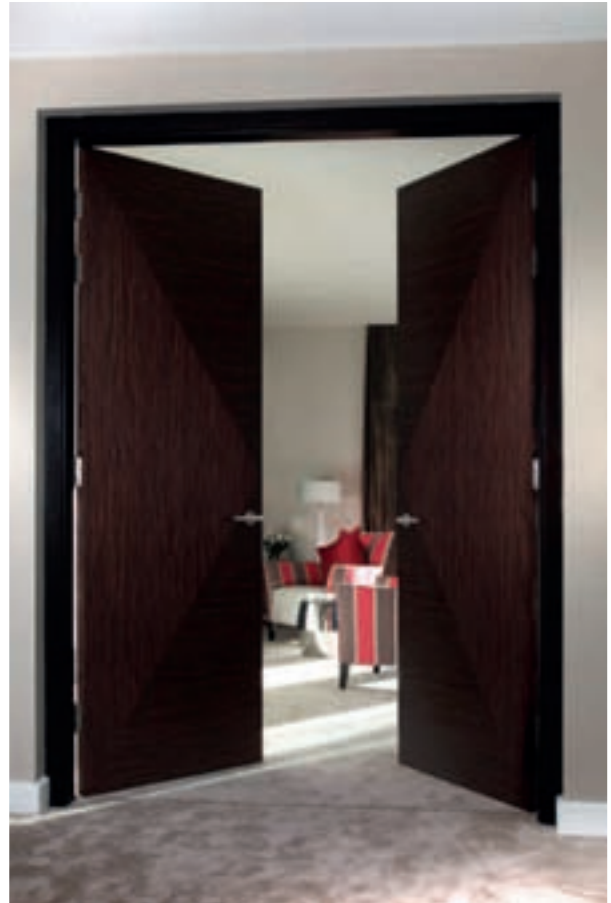
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