

building construction design

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Cover image: Newton Waterproofing
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Lathams launch demo zone at SDS2020



James Latham's stand will include a number of innovative surface solutions including HI-MACS®



STUDIO Collection®

Many people see James Latham as simply a timber supplier and after 262 years in the business you can see why!

However, with this year's 'How Well Do You Know Us' campaign, the leading timber and panel products distributor has been broadening the awareness of its entire product range, from the very latest decors, melamines, laminates and veneers, through to solid surfaces, natural acrylic stone, thermoformable plastics, and more.

And at this year's Surface Design Show, Latham's stand (208) will be taking this one

step further. As well as featuring all the new and EXCLUSIVE product ranges from its supplier partners, it will also be adding two elements to the stand that customers have said they wanted to see; demonstrations and interaction.

Stuart Devoil, Group Head of Marketing, James Latham explained, "In the 'Demo Zone', visitors will be invited to take a seat at a counter in front of a specially constructed 'demo booth' and choose from a selection of product samples displayed in front of them. Once they have chosen, they will pass the sample to our operative behind the counter,

who will then undertake a demo of thermoforming, shaping, sublimation, coating or whatever is suitable for the chosen material. They will then be handed the sample to take away with them, but will also receive a token and an invite to come up to our private showroom (Suite 301) where they can enjoy a free drink and try the process themselves (whilst also having the opportunity to browse our greater range and consult with our specialists).

"In the 'interactive zone', visitors will be encouraged to take a selection of the 250 A4 samples we'll have on display, and form their own 'mood board' by sticking them to a large, 4m x 3m magnetic wall, mixing and matching until they have their perfect colour / texture / décor combo."

"We'll then photograph the mood board and post it on our Instagram, Pinterest and other social channels, for other designers to check out. Is it inspiration, or competition? We'll leave that up to you to decide....."

"All in all, this insight led approach is designed to bring greater interaction with our design focused customers, whilst also displaying the huge and diverse array of products we can provide. We hope to see you there on stand 208! "

The Surface Design Show takes place at the Business Design Centre, 52, Upper Street, Islington, London, N1 0QH between 11th-13th February 2020 – [www.surfacedesignshow.com](http://www surfacedesignshow.com).

0116 257 3415 www.lathamtimber.co.uk



Valchromat

Mapei's high-demand training dates revealed for 2020



Mapei has unveiled its extensive list of training dates for 2020, as part of plans to continually utilise its impressive training facility based in Halesowen, West Midlands. Following a successful first year of training courses at the facility situated at Mapei Academy, a total of 51 days have been dedicated to training, covering Ceramic Tiling, Resilient Flooring, EWI, Resin, Ultratop Loft, Concrete Repair and Basement Structural Waterproofing.

There will be 12 dates dedicated for each

of the Ceramic Tiling and Resilient Flooring training courses, six dates for both EWI and Resin Flooring, and five dates each for Ultratop Loft, Concrete Repair, and Basement Structural Waterproofing. A team made up of Chris Myatt, Adrian Jennings, Neal Perryman, Adrian Jones and Jeremy Mann, as well as relevant product line experts, will be on hand to provide information and expertise at each tailored training course.

Bookings from distributors, contractors, designers and engineers are welcomed, and

can be tailored to specific needs and requirements. All training delegates will receive presentation notes, refreshments, a buffet lunch, a factory tour and Mapei goodies.

The dates are as follows:

Ceramic: January 7, February 4, March 3, April 7, May 5, June 2, July 7, August 4, September 8, October 6, November 3, December 1

Resilient: January 9, February 6, March 5, April 9, May 7, June 4, July 9, August 6, September 10, October 8, November 5, December 3

EWI: January 23, March 26, May 28, July 30, September 24, November 26

Resin: February 25, April 28, June 30, July 28, September 29, November 24

Ultratop Loft: January 21, March 24, June 23, August 25, October 27

Concrete Repair: March 17, May 12, July 2, September 15, November 10

Basement Structural Waterproofing: February 27, April 12, June 11, September 17, November 19.

Please email to book your place on one of Mapei's coveted training courses.

0121 508 6970
ukmarketing@mapei.co.uk



This must be just like living in Paradise!



A £52 million student accommodation development in Coventry is using smoke and heat exhaust ventilation (SHEV) systems from SE Controls to enhance fire safety by providing smoke free escape routes for almost 1000 students living at Paradise Student Village.

Located on Paradise Street and managed by student accommodation provider, AXO Student Living, the development includes studio rooms and study bedrooms, arranged in clusters, as well as a cafe bar, cinema and gym.

Designed by Fraser Brown Mackenna Architects and constructed by Galliford Try, the new building incorporates three towers with 10, 12 and 14 storeys respectively, together with an extensive 3 storey town house structure that is arranged in a 'wall' below the towers and adjacent to the city's ring road.

To meet fire safety and smoke ventilation requirements, the buildings are separated into six individual fire zones with dedicated smoke control solutions from SE Controls serving each zone, which protects stairwells and corridors by keeping escape routes clear of smoke if a fire should occur.

The town house is separated into three zones with the 'cluster corridor' in each being protected by a mechanical smoke ventilation system, using duty and stand-by SHEVTEC® fans, with replacement air supplied by automatic opening lobby dampers connected to a natural air inlet shaft.

In addition, two of the town house zones also have a stair lobby, each of which is protected by an automatic louvre vent at the head of the stairs. Once triggered by a fire alarm signal, the corridor dampers on the fire floor open, together with the stair louvre, allowing smoke to be extracted from the building. Also, Manual Control Points (MCP) are located throughout the town house zones, which enable the system to be managed and reset by fire service personnel.

The three high-rise blocks also use SE Controls mechanical smoke extraction, but in a duplex push-pull system that enables smoke to be removed from corridors through one of two smoke shafts, depending on the location of the fire, to keep escape routes clear.

Each of the main stair cores in the tower blocks are also protected with roof mounted automatic louvre vents, which allow smoke and heat to be vented, keeping them clear of smoke and hot gases to aid escape.

The system is designed so that every tower incorporates two smoke shafts, each of which is connected to a duty and stand-by SHEVTEC smoke extraction fan set capable of running in either direction. In the event of a fire, both duty fans will start with one shaft extracting the smoke, while the other fan runs in the opposite direction, which helps purge smoke by pressurising the other shaft and corridor.

A key advantage of this approach is that the direction of operation is dependent on the location of the fire so that the extract fan

shaft is always closest to the source of a fire and the pressurised replacement air is supplied by the farthest shaft for more rapid and effective smoke removal.

Each corridor incorporates a SHEVTEC lobby damper at each end as well as an automatic smoke door by the lift lobby, which open when a signal is received from the building's alarm system.

The control of the complete smoke ventilation and extraction system is handled by 12 SE Controls OS2 SHEVTEC controllers with integral failsafe battery backup, which are linked to a series of OSLoop Coordinators throughout each of the six fire zones. OS2 MCPs and tamperproof MCPs are also installed to allow the fire service to manage the system's operation and reset it after any fire event.

SE Controls Project Manager, Regie Gadayan, explained: "This is an ideal example of how we combine our technical expertise, immense experience and innovative products to develop a highly effective solution for this flagship residential project."

He added: "The Paradise Student Village is an innovative development itself and is providing much needed high quality accommodation for students attending the city's university and I'm delighted that we have been able to play a key role in their safety."



01543 443060 www.secontrols.com

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

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

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

They specified that the landscape development is to be an exemplar of urban biodiversity, creating a biodiverse environment and providing ecological corridors within the city. It was important for the campus landscape to be an inspiring place which encourages innovation, live research, learning and discovery. Invigorated, high-quality public spaces should form a network of hubs across the campus which



encourage a diversity of activity. The campus landscape is underpinned by and promotes the university's values of sustainability to become a living lab for sustainable solutions.

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

Our involvement

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

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

slowing down the flow, and acting as a filter for both rainfall and runoff from hard landscaping.

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

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

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

01423 332100
www.green-tech.co.uk

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



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

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

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

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

It's no surprise, then, that the service has won six awards in just over two years, including the 'Charles Darwin Award' from the British and Irish Trading Alliance (BITA); the 'Commitment to the Environment

Award' at the Kent Excellence in Business Awards (KEiBA); the prestigious 'Innovation of the Year' award from the National Building Awards; and the 'Sustainability' award at the Property Care Association Best Practice Awards.

Newton Waterproofing's Managing Director Warren Muschialli said: "Our innovative recycling service had another tremendous year in 2019 and, as well as the environmental benefits, we also saved 223m³ of skip space on site, equivalent to more than 24 full skips and therefore 50 skip journeys. This obviously delivers further emission and cost savings."

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

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

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



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

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

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

01732 360 095
info@newtonwaterproofing.co.uk

A New Year's Revolution: Aico launches groundbreaking SmartLINK Gateway technology

Aico, the market leader in domestic Fire and Carbon Monoxide protection, has launched the SmartLINK Gateway, the Ei1000G. This is a first in asset management and compliance, providing full visibility and remote whole system monitoring of Aico Fire and Carbon Monoxide alarm systems.

Stemming from their ethos of innovation, Aico has launched the SmartLINK Gateway to provide a groundbreaking solution for Registered Social Landlords (RSLs) to have access to real time data insight into the status of the Smoke, Heat and Carbon Monoxide (CO) alarm systems across their entire housing stock. Using its built-in GSM data connection, the Ei1000G utilises Aico's next generation of wireless technology to report events including fire/CO activations and alarm head removals as they happen to the SmartLINK cloud portal, for full visibility and remote monitoring.

The development of the Aico SmartLINK Gateway has been greatly influenced by RSLs and their teams, through extensive feedback and rigorous trials that have significantly shaped the final product; Aico designed this alarm management system to assure tenant safety at any time. As the pinnacle of Aico's technology, this pioneering product facilitates the safety of tenants at all times and aids with compliance across housing stock, ensuring ease of monitoring for RSLs and clear, actionable intelligence.



Fife Council served as a trial site for the SmartLINK Gateway, Lead Officer Jim Macdonald commented "In a building that relies on residents for access, we can monitor alarm systems remotely to make sure everything is working correctly, and the tenants are kept safe. The main benefit of this product would be saving time and money while getting an immediate response, rather than going through the normal procedures. We have always

found that Aico is very adaptable in working with clients, such as ourselves, to make sure the products are fit for purpose."

Aico have always been at the forefront of Radio Frequency (RF) technology and are now leading the way in revolutionising this technology with real-time data monitoring. By using in-built GSM data connection and RF interconnection to interface with Aico alarms and accessories, easy installation and reliable connection is assured, meaning full visibility of connected RF systems. Although designed for SmartLINK, the Ei1000G is backwards compatible and therefore will also give visibility to RadioLINK+ systems. Events are reported directly as they happen via the online portal, which gives accessible intelligence that can be actioned, reported on and documented.

The Ei1000G SmartLINK Gateway aims to improve efficiency, reduce costs, aid with forecasting and compliance and enable smart asset management. This groundbreaking technology gives a proactive approach to fault-finding, defining any trends in alarm activations and maintenance requirements while drastically minimising the issue of property access. The SmartLINK Gateway will revolutionise the way in which alarm systems are managed, paving the way to a solution-focused approach to asset management.

01691 664100 www.aico.co.uk



Aluminium or PVCu – which is best for your Local Authority project?

Leading window and door manufacturer Shelforce is Birmingham City Council's chosen manufacturer of choice for local authority building projects, specialising in social housing, education and the new build sector. With extensive experience in delivering window projects on time and in budget, Shelforce's Business Manager Howard Trotter tackles one of the age-old debates when it comes to windows – which are better for your local authority project, aluminium or PVCu windows?

When a debate is as longstanding as which material is better when it comes to windows, aluminium or PVCu, it's usually a sign that it's almost impossible to answer.

Historically, aluminium was the material of choice for windows in the 60s and 70s, but due to poor thermal efficiency and quality, PVCu took over the mantle and has proved the most popular choice for window frames since the 80s thanks to its affordability.

Aluminium windows, however, have come a long way over the past decade in terms of affordability, durability, and thermal efficiency.

While aluminium is a firm favourite with architects and commercial entities, housing associations tend to lean more towards PVCu.

But what it really comes down to is budget and the kind of project being undertaken.

STRONG, STYLISH AND SLEEK

The surge in popularity of aluminium windows can be traced to the stylish look they offer, with sleeker frames and slimmer sightlines creating a clean and modern look.

Slimmer window frames allow for a bigger pane of glass meaning a better view and more natural light coming in.

Aluminium is fantastic for curtain walling, shop fronts and commercial entrances due to its durability and strength, while it's also the best product for achieving stringent wind load calculations.

Thanks to advances in technology, aluminium windows are now among the best-insulated on the market due to an innovative polyamide thermal break within the frame which prevents too much heat from being conducted.

And because aluminium is a highly durable metal that doesn't rust, the frames are practically maintenance-free and can last up to 45 years.

SIGNIFICANT ADVANCES – AND STILL GOOD VALUE

The popularity of PVCu windows is down to their affordability thanks to material costs and being much quicker to manufacture.



But there have also been significant advances in the PVCu market with respect to design and PVCu systems have been introduced that replicate both aluminium colours and sight lines, as well as more traditional finishes, such as flush sashes for traditional timber alternatives.

Thanks to the new PVCu designs and colour options, more cost-effective solutions to aluminium are available which now provide the aesthetics called for by architects.

PVCu is also resistant to rot which means they require little maintenance and provides good insulation ability, while a PVCu window has a lifespan of 35 years and as a hugely sustainable material it can be recycled 10 times, meaning PVCu can offer up to 350 years of service.

Multi-chambered PVCu frame profiles can also help reduce noise and are also warp-free, which means there will be no distortion in the frame which can seriously reduce the effectiveness of the seal.

APPLICATION IS EVERYTHING

It's clear that aluminium windows have developed over the past 10 years but there will always be a place for PVCu thanks to its affordability and the significant advances in the PVCu market.

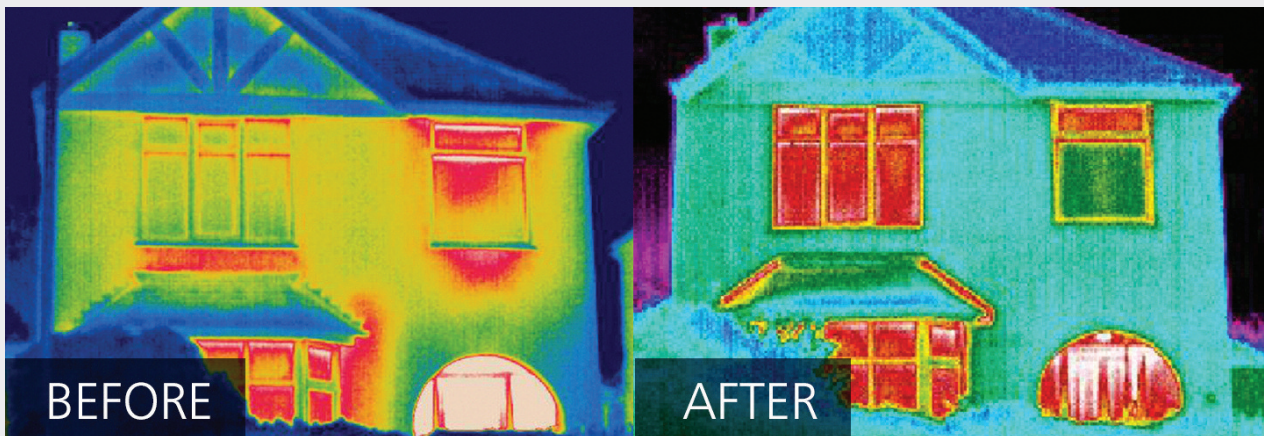
But as to which one is better, it comes down to application.

For curtain walling or wide span projects, aluminium should be favourite. When it comes to affordable housing, however, PVCu is the material to consider.

Founded in 1839, Shelforce has been involved in a whole host of local authority building projects including, most recently, Birmingham Council's first ever 'ModPod' and a revamp of a 20-storey tower block in Aston to help homeless families. For more information please contact Shelforce.

0121 603 5262
www.shelforce.com

Landlords - The 2020 deadline is looming



From April 2018, it became unlawful for landlords of privately rented properties (both domestic and non-domestic) in England and Wales to grant a new tenancy to a new or existing tenant on a property with an Energy Performance Certificate (EPC) rating below E. These regulations will apply to ALL privately rented domestic properties from 1st April 2020 and for non-domestic properties from 1st April 2023.

Landlords of domestic properties could be fined up to £5000 for each property that fails to meet the Minimum Energy Efficiency Standard (MEES), while for commercial properties penalties are linked to the rateable value and are likely to be considerably more (although in both cases there are exemptions for specific situations). Some landlords may still not be aware of the looming deadline or what they should do about it.

According to the Government, up to 25 per cent of properties have an E rating or below. The Government has already indicated that it may raise the minimum standard further over the next decade. There are many measures landlords can take to improve energy efficiency. Wall insulation is very effective but not all properties have the option of cavity wall insulation and in these cases external wall insulation (EWI) may provide a solution.

Eurobrick offers two EWI systems. The backer panels used for X-Clad and V-Clad are excellent insulators and have proven to save energy and reduce heating bills. Both panels have a BRE Green Guide Rating of A and can be supplied in a range of thicknesses up to 100mm to help meet the energy saving targets of a project. X-Clad has been independently certified by the British Board of Agrément (BBA) and is LABC (Local Authority Building Control) registered.

These systems have a brick finish and can be retrofitted directly to an existing masonry wall. As the vernacular building material of a large proportion of building stock, using a brick slip EWI system preserves the brick finish whilst enhancing

the thermal performance of the building.

This house in Wilford, Nottingham, was poorly insulated and as you can see from the thermal images, it was losing a significant amount of heat through the walls. After installation of Eurobrick's X-Clad system you can see a definite improvement in the heat loss. The owners of the house went on to say that they benefitted from reducing their energy bills by one third following the installation, as well as reducing condensation significantly and providing an overall improved living environment.

The first step is to obtain an up-to-date energy performance certificate, to assess the level of

improvement required. Landlords will then be able to work out what measures are needed and how this can be funded. Improvements to rental properties do not just benefit the tenants, for landlords it is an investment and there are benefits to be gained from a well maintained, energy efficient property. These regulations have made these improvements inevitable, so it makes sense for landlords to act now and get the most out of their properties on the rental market.

01179 717 117
www.eurobrick.co.uk



Casings for social housing – undercover work

The range of pipe boxing and casing solutions for social housing from Encasement Ltd continues to be in high demand with the growth in fire sprinkler installation; central heating upgrades and distributed heating system refurbishment projects all using the company's specialised products.

Pre-formed plywood casings have been the preferred solution for social housing RMI for decades and with over 30 years manufacturing experience in the sector, Encasement estimates that more than 100,000 kilometres of its pipe-boxing have already been installed in social housing sites throughout the UK.

The company's pipe boxing, boiler casings and fire sprinkler boxing are continually specified by HAs, LAs and their contractors for concealing interior pipework, while its 'Arma' range of tough, lightweight aluminium casings are increasingly specified to conceal and protect exterior services, such as gas supply pipes, electrical cabling and distributed heating pipework.

Encasement was one of the first manufacturers and suppliers of decorative casings to achieve the FSC® Chain of Custody Certification from the Forestry Stewardship Council in 2010 and since then, the company has offered an FSC® certified option on its full range of pre-formed plywood casings to comply with customers' sustainable procurement policies.

The company's Riva, Versa 5 and Versa 8 ranges of pipe and fire sprinkler boxing products, together with its boiler pipe casing range, are pre-finished in white melamine so that they can be fitted quickly and easily, which removes the need for on site painting and helps save time and money on site.

Martin Taylor, Encasement's Managing Director, explained: "From our experience of working with contractors on countless social housing projects where pipework needs to be concealed,



Versa fire sprinkler boxing

we know that pipe and fire sprinkler boxing can be fitted in less than half the time of site made alternatives."

For housing associations, local authorities and their contractors, this time saving provides a number of benefits. It helps ensure that heating systems, boilers and fire safety upgrades can be completed within shorter timescales. This minimises disruption for tenants and can also have a positive impact on improving maintenance and tenant satisfaction KPI's.

Potentially the most important advantage is that the time taken to complete the projects can be reduced without compromising the quality or integrity of the installation, which can also help reduce costs.

"From day one, we set out to manufacture and supply the most comprehensive range of pipe boxing and casing products for the social housing sector and we now offer more than 200 different products, profiles and sizes within our standard range, continued Martin Taylor."

He added: "Our Versa range of pre-formed pipe boxing has rapidly become a key solution for concealing retro-fitted fire sprinkler pipework in flats and communal areas, whilst the launch of our flame retardant Versa 'FR' boxing was a first for the market. Versa FR is also pre-finished in white, while our Arma aluminium casings can be specified and manufactured in any RAL colour."

01733 266 889 www.encasement.co.uk



Riva pipe boxing



Boiler pipework casing

Aquarian Cladding seals partnership with industry leaders to distribute MechSlip

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

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

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

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



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

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

The development of MechSlip has been carried out as a joint venture between UK-

based industry innovators Ash and Lacy, who have designed the mechanical metal support system, and Ibstock Kevington, the UK's largest brickwork special shape and masonry fabrication company, who cut the brick slips that go onto it.

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

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

0808 223 9080

www.aquariancladding.co.uk

Kalwall rockets away

Aerospace company Blue Origin's vast new 70,000 square metre factory in Kennedy Space Centre's Exploration Park in Florida is now manufacturing 'Glenn' rockets for launches at Cape Canaveral 10 miles away. In addition, it is expected that the factory's upper-level spaces will be used as launch control for the space vehicles including those recently announced for the new manned missions to the moon.

Owned by Amazon founder Jeff Bezos, the Blue Origin building features specially-designed Kalwall® translucent cladding which has been used across the top of the building in a clerestory design. Manufactured with a bespoke face sheet to match the corporate colour scheme, 100's square metres of Kalwall transmits high quality diffused daylight into the structure whilst also solving the twin requirements of privacy and security. Interestingly, the use of a bespoke coloured face sheet does not affect the quality of light internally.

Kalwall offers complete line-of-sight protection, maintaining privacy for building



occupants and operations while throwing diffused daylighting deep into the interior space. It also eliminates shadows and glare and the stark contrasts of light and shade making it safer for within. The system also enhances simplicity in external design by negating the need for blinds, curtains or solar control.

In the United States, Kalwall is accepted as one of the core materials for the construction of secure locations. It can be configured to exceed Large Missile D hurricane compliance for wind-borne debris protection making it suitable for facilities

needing enhanced protection or serving critical national defence functions. It can also be manufactured for blast resistance and is compliant with ASIAD, DoD, GSA anti-terrorism, AITP and UFC.

The exterior face is colour stable and includes a UV resistant, self-cleaning surface. This means that normal rainfall helps to keep the surface free of dust and dirt while at the same time retaining its original colour during the weathering process.

01233 501 504

www.structura-uk.com/kalwall

Hauraton surface drainage and service channel systems installed at Central Park

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

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

requirements. FASERFIX® SERVICE channel was also specified to house cables and coolant pipe-work.

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

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



Hauraton FASERFIX® SUPER channels with E600 ductile iron gratings

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

01582 501380 www.drainage-projects.co.uk

TROX laboratory air management system installed for Quadram Institute

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

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

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



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

The resulting TROX EASYLAB room air management system installed in the new

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

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

01842 754545 www.troxuk.co.uk

Permitted Paving

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

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

Before these changes, paving anywhere in a garden related to a 'dwellinghouse' or within various

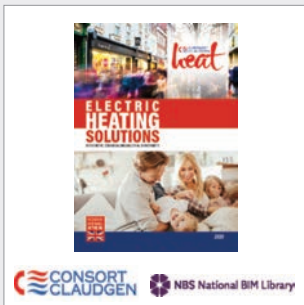


non-residential properties, using any materials, was considered to be 'permitted development' – effectively, an automatic planning permission without needing a planning application. But these rights no longer apply to new or replacement drives or other paving between a house and the street, or within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

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

0116 232 5170
www.paving.org.uk

Consort launches new electric heating brochure plus updates to BIM library



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

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

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

Marmox Thermoblocks specified



A former hotel in the Polwarth area of Scotland's capital is the subject of a complex conversion and reconfiguration project, where Marmox Thermoblocks have been specified by the project consultants to address the critical floor/wall junction within the new

extensions being constructed. At the base of the new perimeter walls, the block-layers have used a total of 117 of the 140mm wide Thermoblock units each one 600mm long and 65mm high. In addition, the merchant stockist also supplied a carton of 10 Marmox MSP 360 Sealant for the purpose of completing the stepped joints.

01634 835290 www.marmox.co.uk

Longfloor launch game-changer for industry

At this year's Concrete Show on 25th March, Longfloor will launch a game-changing development for the construction industry, a revolutionary approach in the way liquid cement screeds are applied, a global first which will fundamentally enhance the way liquid cement screeds are used.



Darren Williams, Longfloor General Manager said: "We are very excited to announce an industry first at this year's Concrete Show. The future is grey!" Please come along and see us on stand 60 to find out more about this game-changer for the industry.

01629 540 284 www.longfloor.co.uk

GARADOR

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Precision Engineered and Fully Insulated Sectional Garage Doors

View full range and technical specifications
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- 1** 42mm fully insulated door sections ($U = 1.30 \text{ W/m}^2\text{K}$)
- 2** Rubber seals on sides, floor and fascia of door.
- 3** Full drive-through width and height.

Historic building retains regal charm



Number One Queen Anne's Gate is a prestigious development of 27 luxury private residences situated adjacent to St James' Park in London. George Barnsdale's experience of working with different types of retained facade and steel framed systems was invaluable in managing this fenestration project. A range of like for like timber sash and casement windows were manufactured, some with single glazing and acoustic glass. Putty glazing beading and Grandis Hardwood doors were recreated and installed to complement the existing door sets. Acoustic laminated glass was incorporated into the design.

01775 823000 www.georgebarnsdale.co.uk

Offsite Solutions awarded £2.5m contract



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

info@offsitesolutions.com



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w. georgebarnsdale.co.uk t. 01775 823000

e. enquiries@georgebarnsdale.co.uk



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

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

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



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

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

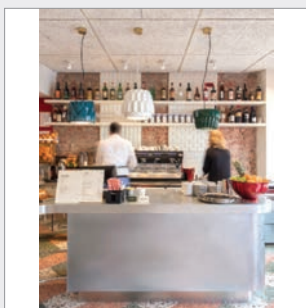


the business logo, and the decoration on the rear wall of the main area.

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

07990 978611 www.tallonperryinteriors.com

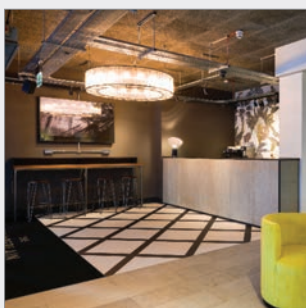
Sounding Out 1950's design



An intriguing new Milan styled Italian café has opened on Essex Road, Islington designed by well-known Italian studio Vudafieri-Saverino Partners. The 240 sqm 'Latteria' is inspired by Milanese culture and style with a warm and informal atmosphere in white and red. This is complemented by Trolldtekt wood wool panels on the ceiling painted white to blend in and used to soften the acoustics and reduce background noise. Trolldtekt panels are frequently used in this kind of open plan environment to combat noise generated by the kitchen machinery, staff and customers which is exacerbated by bouncing off the hard surfaces. This is particularly true in this project where the design harks back to the 1950's and features an open-plan kitchen coupled with hard surface lacquers and laminates, polished and satin-finished steel, tiled walls and marble floors. Trolldtekt's acoustic panels absorb both direct and reverberated sound. They help to strike the balance between a lively and welcoming environment and an experience where the venue is uncomfortably loud. This is important because customers' comfort and a willingness to spend time and money is decreased in a noisy environment.

www.trolldtekt.co.uk

Sustainability and Sound Design at The Chamberlain Hotel



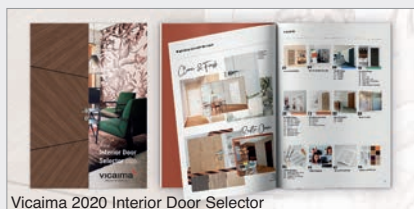
When interior design company Sibley Grove was appointed to re-design the public areas at The Chamberlain Hotel near Tower Hill in London, sustainability was paramount. The company ethos states that design should be a vehicle for positive change – both environmentally and socially. Consequently, to help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

www.trolldtekt.co.uk

Fresh ideas for Interior Doors in 2020

As a new decade commences, professionals everywhere are seeking fresh inspiration for interiors, whether for commercial spaces or residential living. This desire for innovative performance and trend-setting designs is most notable when it comes to interior doors, whose influence upon a room can have a marked effect on the surrounding décor, lifting and invigorating adjacent space. Bringing clarity to this process is Vicaima, who have just launched their 2020 Interior Door Selector. Packed with ideas this brochure is an essential tool for every specifier.

Now an annual and eagerly anticipated event, the 2020 edition of the Vicaima Interior Door Selector has over 100 pages



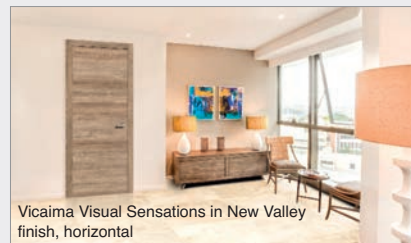
Vicaima 2020 Interior Door Selector

filled with doors and doorsets that suit a multitude of applications, tastes and budgets. Its simple to navigate layout has been designed to make the selection process straightforward, with at a glance guides to form, function and fire, or indeed other desired performance criteria. Every range also shows a simply Price Indicator, allowing easy comparison between potential options for that perfect specification.

New for 2020, Vicaima have introduced some pioneering products that are certain to gain wide appeal. These include: Primed 2 Go, a revolutionary, polymer faced door for painting that requires no surface sanding or priming, saving time and money on site. Deep Textured Finish, creating the authentic touch of an open grain in a matt finish that can be applied to a selection of veneered and stained veneered doors.

An extension to the Visual Sensation foil door range, introducing four new matt finishes and new horizontal grain options in both the Naturdor Stained and Dekordor SD Foil ranges.

Naturally, at Vicaima it's not just about



Vicaima Visual Sensations in New Valley finish, horizontal

great design and trend setting aesthetics. As specialists in performance products, Vicaima set the benchmark for fire certification, coupled with security and acoustic solutions. With a growing market awareness of the needs of providing peace of mind when it comes to fire safety, specifiers gain confidence from a supplier like Vicaima, who achieved 54 minutes during recent MHCLG testing of their 30-minute door assemblies. This coupled with Secure By Design approval and FSC environmental certification, makes Vicaima the obvious choice for demanding locations.

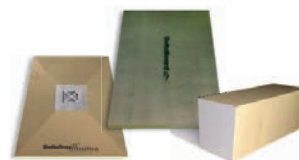
01793 532333 www.vicaima.com



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Luxurious and beautiful bathing environments can be created using DeltaBoard, DeltaTray and Wellness Seating Profiles. PCS Products are designed for use as a lining and overlay system; for walls, floors and ceilings that require the application of natural stone, ceramic and porcelain tiles. The versatile thermal construction products shown, provide an excellent waterproof solution for any tiling project.



PCS manufacture a diverse range of high performance construction products including wall niches, tile backer boards, shower tray formers, flexi panels, tapered panels, tileable seating profiles & more. For more information visit www.pcsboard.com.

What's Under Your Tiles?

All PCS products are available through our national network of distributors and stockists.



01942 820131

www.pcsboard.com
sales@pcsboard.com

Vortice launches new heat recovery unit



Vortice has launched a version of its popular Vort Avel heat recovery unit which is thermal efficient and accredited under the German Passivhaus standard, the Vort Avel 450 D. Suitable for vertical wall installation, it has a high efficiency counter cross flow heat exchanger and automatically activated anti-freeze protection. The front panel gives direct access to the main internal components and allows for easy change of filters. The Vort Avel 450 D has four operational speeds and a 100 per cent mechanical by-pass and its design allows for virtually maintenance free operation.

01283 492949 www.vortice.ltd.uk

Deanestor completes bespoke contract



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

enquiries@deanestor.com

Profile 22 selected for housing development



A development of 82 new build houses to the north of Glasgow benefit from Optima casement windows and French doors from Profile 22. Optima is the market leader in the commercial sector thanks to its ability to meet the most demanding specifications at a cost-effective price point. Optima is the award-winning 70mm system for Profile 22. Its casement windows are available in sculptured and chamfered variations. Aesthetically, Optima casement windows offer improved sightlines and a higher glass-to-frame ratio. The system meets all requirements for thermal efficiency as standard.

www.profile22.co.uk

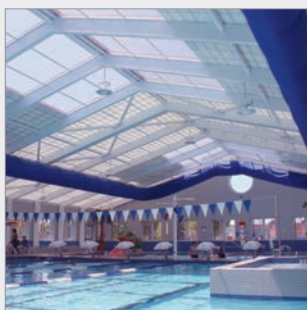
Neaco's design input enhances apartments



McCarthy & Stone's Stapleton Court development of retirement apartments has utilised Neaco's design expertise for an extensive specification of glass walk-on balconies. Fraser Mitcalfe, Regional Surveyor at McCarthy & Stone, said: "We have used Neaco for numerous previous developments due the high standard of their product and their reliable service. As a company, they bring more than just product quality to the table – they also bring useful design input and experience from a supplier's perspective. Their Neatdek decking is now specified group-wide due to its non-combustible quality which is now a legal requirement for balconies on residential developments."

sales@neaco.co.uk

Retractable Kalwall allows open air swimming



Kalwall® translucent cladding, exclusively available in the UK and Ireland from **Structura UK Ltd**, has been used for a clever retractable roof system at Club One in Maryland, USA. Kalwall and its subsidiary, Structures Unlimited, worked with SEI Architects to engineer a 40 x 25 metre enclosure for Club One's aquatic centre comprising six-lane swimming pool, warm water leisure/therapy pool and a kid's pool with slide and beach entry. The pre-engineered aluminium frame pool enclosure system features a Kalwall translucent panel roof system with two unique openable roof systems. The retractable roof systems help create an atmosphere that allows the facility to be operated as an outdoor pool in spring, summer and autumn and as an indoor pool in winter months. With diffused natural daylight and resistance to solar gain, coupled with significant reduction in ventilation, cooling and dehumidification energy costs, energy-consuming artificial lighting and air-conditioning costs are dramatically reduced. The lightweight system also reduces the need for supporting structures maximising the usable space while offering the highest protection.

www.structura-uk.com/kalwall

VEKA UK is on same page as installers, fabricators and specifiers



Industry-leading PVCu systems supplier **VEKA UK** has launched a brand new specification guide providing manufacturers, installers and specifiers with comprehensive information on all the products within the VEKA UK portfolio. For a brand that is world renowned for both its heritage and its commitment to innovation, the timing of the launch is particularly apt; it coincides with the global VEKA Group's 50th anniversary, and a cutting edge new www.veka.co.uk website. Marketing Director Dawn Stockell explains: "Here at VEKA UK, we know our products are perfect for every project, because they are tested to all expected quality and safety accreditations – but more importantly – they must meet our own exceptionally high standards. "Furthermore, as a customer-centric company, having the 'perfect product' is just one part of the service; the second part is presenting all that product information within the ideal package, and that's exactly what we've done with both our new specification guide and the new VEKA website. These resources have made it even easier to specify our industry-leading PVCu systems."

www.veka.co.uk

Luxury Lillie Square Development Watertight Thanks To Newton Waterproofing



Leading independent supplier of structural waterproofing systems, Newton Waterproofing, has provided the perfect solution for a huge development in London.

Stonehouse Property Care, a Newton Specialist Basement Contractor, worked alongside Sir Robert McAlpine on the luxury Lillie Square project in Earls Court.

One of the most prestigious developments in the capital, it has transformed a 7.4-acre car park into over 800 multi-million-pound luxury residences and will eventually stretch from Chelsea FC's Stamford Bridge to Kensington Olympia.

The development also contains London's largest private residents' club, the majority of which is below ground, and boasting a lounge, library, private dining room, cinema, gym, spa facilities and a 20-metre swimming pool with jacuzzi.

Phase 1 of the project required robust waterproofing and the formation of a watertight basement to house this luxury residents club.

Newton Waterproofing and Stonehouse were consulted at an early stage to be part of the design team and provide a guaranteed waterproofing solution that would comply with the requirements of both BS 8102:2009 and any third-party warranty providers.

The solution was to design a combined waterproofing solution using three forms of waterproofing to avoid the risk of any future moisture ingress which would damage the high-quality finishes and disrupt club members.

Stonehouse applied the principles of BS 8102:2009 to create a Grade 3 'completely dry' internal environment. This involved an external Type A barrier achieved with the Newton 107F cementitious, liquid-applied waterproofing membrane; an integral water-resistant Type B concrete structure, and a full internal Newton Type C cavity drain membrane system installed throughout the basement area of the clubhouse.

They also installed four Newton Titan-Pro sump chambers containing dual NP400 pumps, as well as Newton High Water Alarms, Inverters and Battery Back-Up protection to create a truly failsafe system.

Stonehouse Property Care's MD Graham Stone commented: "We have worked closely with Newton Waterproofing for almost 20 years, and we wouldn't want to work with any other waterproofing supplier on such a large scale, luxury new build project as Lillie Square.

"The quality of their waterproofing materials combined with their on-site installation and technical support means I can

confidently specify, install and guarantee a fault-free waterproofing solution, and ultimately provide the best result for the client."

This Newton system forms the crucial barrier to any risk of water entry and has an extendable 10 Year Guarantee with independent insurance backing.

For Newton Waterproofing's MD Warren Muschialli, Lillie Square is yet another success story for the company.

"We were thrilled to have been involved in a project as high-profile as Lillie Square and it's yet another project that showcases our waterproofing in a massive new build project," said Warren.

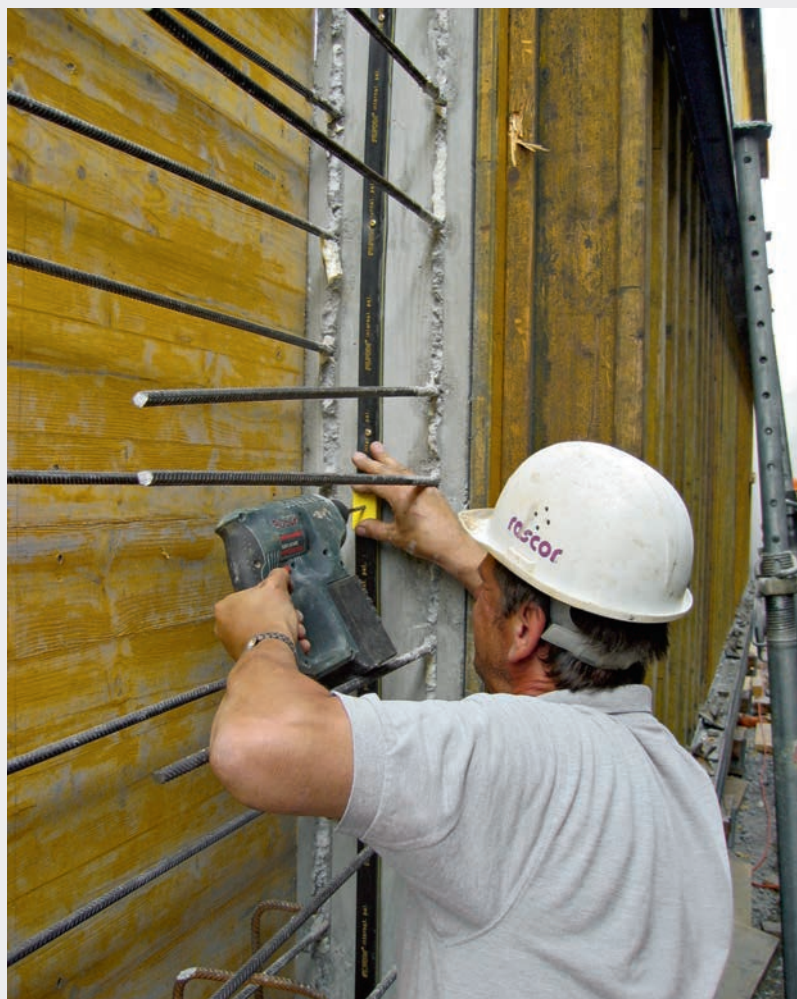
"It's also the perfect example of our elite Specialist Basement Contractors, with Stonehouse providing outstanding design and installation of our high-quality products."

Waterproofing experts for over 170 years, Newton provide the best waterproofing and damp proofing systems for all structures, from new and existing domestic properties to large-scale commercial developments.

For the right waterproofing help and advice with your next project, contact Newton Waterproofing.

01732 360 095
info@newtonwaterproofing.co.uk

Newton Waterproofing partners with global waterproofing specialist RASCOR



Newton Waterproofing has exclusively partnered with RASCOR International to bring the Switzerland-based company's unique RASCOTank system to the UK.

Often referred to as the 'White Tank' engineered waterproofing system, the RASCOTank system ensures that the concrete acts as both the structure and the waterproofing.

The Newton RASCOTank System will provide a unique form of Type B structural waterproofing for any new concrete construction project occurring below-ground in the UK.

Newton and RASCOR's design team will work with the client, the structural engineer, the architect and the contractor from the outset of a project to achieve the required waterproofing strategy.

With this approach the Newton RASCOTank system provides the principal contractor and the client with savings on the financial and programming of the project and, as the

system allows for unlimited pour sizes for the concrete floors and walls, maximum efficiency is also achieved.

A unique method allows Newton to control the locations of the inevitable cracks that occur in the concrete by use of the patented RASCOTec crack inducers. Deliberately placed at intervals within your concrete pour, the inducers allow for significantly bigger pour sizes, remove the need for the traditional chequer board method, and allow for unlimited concreting and any depth of floor or wall.

The exclusive partnership with RASCOR, an international group with over 50 years of experience in the design, manufacture, installation and warranty of Type B waterproofing for concrete structures all over the world, marks the beginning of a powerful new chapter in concrete waterproofing for the family-run business, based in Tonbridge, Kent.

"RASCOR are pioneers in Type B waterproofing and we are absolutely delighted to be

their exclusive partner providing the Newton RASCOTank system in the UK," commented Newton Waterproofing's MD Warren Muschiali.

"As the UK's oldest independent designers and suppliers of guaranteed waterproofing systems for all structures, with 170 years of industry experience and expertise, we are their perfect partner."

Ruben Schmid, Executive Director of RASCOR International Ltd, commented: "Newton are the perfect match to RASCOR. Each company has vast knowledge and experience and is an expert in their respective areas of waterproofing."

"This new partnership means that Newton and RASCOR will be able to offer the best waterproofing solution in any combination on any project for our UK clients, and will put us into a leading position in the UK market."

01732 360 095
info@newtonwaterproofing.co.uk



Cover image: Newton Waterproofing
See page 18 for details