



# BCR

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## The growth of Green Roofs and Carlisle's Root Resistant Portfolio: A solution for sustainable living



As our towns and cities grow thanks to increasingly high density property development, a lack of green spaces has a wide-reaching impact on people, wildlife and the environment. Green roofs provide an opportunity for new buildings to be part of the solution; addressing the need for homes, businesses and public services, while providing green spaces that offer a boost to wellbeing, habitats and urban drainage.

### CARLISLE's Green roof specification: A solution for sustainable living

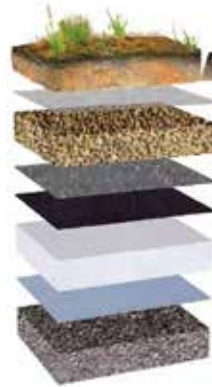
Carlisle Construction Materials has wide-ranging experience of green roof build-ups with a number of waterproofing system solutions that offer both root-resistance and the robust performance required to protect the building with a fit-and-forget roof covering suitable for a buried application.

For example, the RESITRIX® waterproofing system from Carlisle – a hybrid roof covering that combines the elasticity of EPDM with the robustness of a bituminous membrane in a single ply system – is often specified for green roof projects. The roofing system has a certified 50-year service life, as tested by the Institute Süddeutsches Kunststoff Zentrum (SKZ), and offers excellent root resistance. The system also has excellent sustainability



### Extensive green roof

- ▲ Vegetation layer
- ▲ Filter layer
- ▲ Drainage layer
- ▲ Protective layer
- ▲ CARLISLE® waterproofing membrane
- ▲ Thermal insulation
- ▲ ALUTRIX® vapour barrier
- ▲ Substrate



waterproofing system, which will provide excellent root resistance, along with ease and speed of installation and effective waterproofing protection.

credentials, ensuring it aligns with both the functionality and sustainability requirements of biophilia-focused projects.

RESTRIX® was the system specified for the Earth Lab, an environmentally-focused education centre in Oxfordshire, developed by the Earth Trust. The project saw the Trust redevelop an existing barn and RESITRIX® was specifically chosen due to its environmental credentials and high flexibility. The Carlisle FG40 solvent-free primer was used to prime the deck and the 100% root resistant properties of RESTRIX®, both across the body of the membranes and at the seams, meant that it no separate root resistant cap sheet layer was required.

Carlisle's ARBOFLEX® PU liquid waterproofing is often frequently specified as the roof covering as part of a green roof



build-up. For example, at Neptune Wharf, a major residential development comprising eleven apartment blocks in East London, each block has been specified with the ARBOFLEX® PU 20-year liquid

The SURE-WELD® TPO roofing system from Carlisle is also ideal for green roof projects, with root resistance tested to DIN EN 13948:2007. SURE-WELD®'s advantages for large flat roof areas makes this an excellent choice for industrial or warehousing projects, as well as for projects that combine green roofs with solar installations.

Finally, Carlisle's HERTALAN® Easy Cover EPDM roofing system is also suitable for green roofs. With FLL-approved root resistance, a 50-year service life and enviable environmental credentials, including recyclability at the end of its lifecycle, HERTALAN® Easy Cover offers another green roof option from Carlisle.

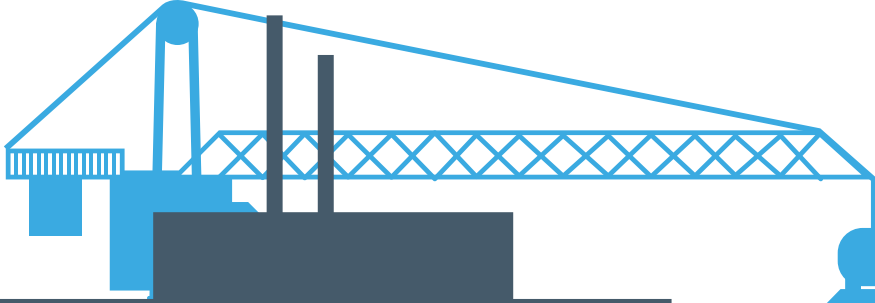
### Making the right choice

The right choice of green roof specification begins with the most suitable waterproofing system. CARLISLE's expert team can advise on the most appropriate system solution from the company's varied roofing range, aligned to the design and buildability requirements of the project.

Scan the QR code [above](#) for more or to receive a sample.

Include reference code: BCR2024

For more information, log on to: [www.ccm-europe.com](http://www.ccm-europe.com)



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## Hello & welcome to Issue 403 of BCR...

Welcome back to our bumper New Year issue of Building & Construction Review. This year is set to be a busy year across the industry as the fibre-based digital technology roll-on continues across the country and we see a bigger push towards sustainability best practice, in line with the UK Government's 2050 net-zero targets.

Solent Streetworks Consultants is our featured **Commitment to Excellence Company** on pages 6-7. The Southampton-based consultants offer NRSWA streetwork consultancy, in line with the Traffic Management Act 2004 to all utility services. The next twelve months, leading into 2025 will be focused on the fibre-based digital telecommunications roll-out, alongside ongoing water, gas and energy services.

Bartels & Vedder is a Dutch engineering consultancy and recipient of our **New Year Spotlight Award 2024**. With a USP of floating structures, the innovative company is bringing its 'climate resilient' approach to the foreground, in the bid to tackle flood-proof housing. **Read more on pages 8-9.**

Service Sealing Solutions is our **New Year Spotlight on page 19**. With pressing focus on the UK Government's 2050 net-zero targets and tightened Part L Building Regulations, the green building sector is growing. With this in mind, the new, exclusive DOYMAfix® is aimed at the heat pump installation market.

Don't forget to send us your latest construction updates and news.

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# Architectural Metalwork seen in famous places!



Leander Architectural has been providing bespoke architectural structures, cast products, way-finding and signature solutions for over 140 years.

Recently the team at Leander were installing new canopies at the Savill Court Hotel in Windsor, which has hosted many important functions and famous people. It

was an extremely proud moment for all involved when the team's expertise was relied upon to create such products that were ultimately broadcast around the world by the BBC.

"It is always great to see glimpses of our products on news features and press coverage. We're very proud of our team and the products that they produce," said a spokesperson from Leander Architectural.

Whether you are looking for signage and street furniture design, pattern making, metal casting, structural and decorative ferrous and non-ferrous fabrication (including coded welding), painting and finishing, blacksmithing, decorative steel, iron and wrought iron restoration/repair, or restoration consultancy, Leander Architectural has the extensive experience and expertise to help in these areas.

Manufacturing for both trade and the public its range of products are extensive including some of its most popular being Plaques, Fingerposts, Interpretive Signage, Bronze Memorials and Bronze Plaques. For some of their latest projects, check out the company website.

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**Manufacturers of:**

- ▲ Brise Soleil solar shading canopies
- ▲ Vertical Privacy screens
- ▲ Plant room walls and doors

Aluminium Systems Ltd, Unit 5c, Moat Way, Barwell, Leics. LE9 8EY

## RYNO presents non-combustible decking that actually looks like wood



RYNO® proudly launched its **visually stunning, Vitrified Composite decking board**. Boasting a sensationally realistic wood-effect finish, it provides architects, designers and specifiers with outstanding Class A1 performance while replicating a classic timber aesthetic, indistinguishable from its natural counterpart.

Available in **a selection of striking wood-effect finishes**, ranging from Brazilian Walnut to Himalayan Birch, RYNO states that, "All finishes achieve a stunningly authentic hard-wood feel, and the various hues and tones ensure our boards can seamlessly integrate into a wide range of projects."

Vitrified composite decking boards are extruded from a composition of clays and feldspar and fired (or vitrified) in the same way as porcelain. They are stain

and fire resistant, and resistant to moisture, fading and weathering, require very little maintenance, are well-suited to remediation projects and represent an effective alternative to conventional decking solutions, where there can be no compromise between aesthetics and performance.

All Vitrified Composite™ finishes received the 'low slip risk' classification, making this material an excellent choice for all high-traffic terrace applications.

RYNO's Class A1 fire-rated wood finish was inspired by nature and designed for life: take a closer look at the **RYNO TerraSmart® Vitrified Composite decking system**.

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# Find your perfect platform



**Richard Martin, Managing Director & Owner at Independent Access Sales**

Building & Construction Review is proud to present Independent Access Sales with our Building Products and Services Innovation Award.

IAS's incredible growth strategy since it was established in 2020 has enabled them to unlock new partnerships and reach new audiences, scaling up even faster than they could have ever thought possible. With 35 years of experience in the access industry, Richard Martin – current Managing Director and Owner, and his small but vital three-member team who also have an abundance of experience within the access industry, have already smashed their initial five-year targets as it fast becomes a future ready company demanding speed, efficiency and value in all areas of its service.

With a sole mission to find the perfect access platform for your needs that also comes at the best price achievable, IAS have a number of services available for all customers. Richard explains, "Our main service is that we sell certain manufacturers platforms that include Easylift Spider Platforms, SOCAGE Truck Mounting Platforms, and the Leonardo HD which is a compact, versatile and lightweight mobile platform by Bravi HD."



"Further to this, we also do consultancy and servicing for our customers. We are reliable, honest and ultimately look after our client's needs. Our back up service is very professional and second to none."

Whether you're a homeowner, contractor, business owner, or work within an area of building and construction, IAS work to find the best and most reliable access platform for your project. To support this, they also provide a maintenance service to ensure your access platform is always in



and give them our upmost attention backed up by an incredible aftersales service that we are proud of," stated Richard.

Starting from nothing, it is completely commendable to witness what Richard and his team have achieved in such a short period of time. "We started from nothing to being a distributor where we have sold over £2 million worth of Spider machines in the last two and a half years. One million pounds of which was sold to just one individual client, so we are trying to grow the brand as organically



top working condition. "Customers who may have an access issue can call us and we will either work with them to solve their problem or point them in the right direction to solve their access needs. Our team and I have over 35 years' experience in the access industry so I would like to think we really understand the industry and what our customers need. We are the ultimate professionals and will use our expertise and experience to ensure only positive outcomes. We are approachable, reliable, and honest, and because we are a small company, we work really well with people

as I can and as long as I can keep selling this way the skies the limit for us. The growth of the business from standing start to where we are now is phenomenal and I'm very proud but keen to continue selling Spiders and other equipment," added Richard.

Richard's eye for business innovation is inspiring and his relentless attitude to do more for the customer is a credible attribute that can be admired by many young entrepreneurs and business start-ups around the country. Since IAS took on the sale of SOCAGE trucks selling its first one in March 2023, it has now confirmed the sale of another eight trucks that are due to come in soon. "We are also really excited to announce that we will be adding some more lines and brands to our current stock in the very near future that will add some more strings to our bow," said Richard.





Moving forward IAS will continue to grow organically and employ more people along the journey. "To support our future expansion, we will be looking to hire more staff who will help us reach new markets and bigger audiences. Our main goal is to increase product awareness and we can only do this through hiring more people to join our sales team," added Richard.

In closing, we asked Richard his thoughts on what the company has achieved so far

and why he believes their success will continue:

"Over the years, we have built up a good brand

awareness so people are aware of us and know us well enough to have a strong confidence in buying from us. When a company comes back to us to buy a second or third machine, we know we are doing



something right. We have many customers that are repeat purchasers and that shows they trust us. We pride ourselves on building a strong rapport with our clients and we ensure to do our utmost to look after them and be as professional as we can be. Our team will go above and beyond to meet all customers' needs and we are rewarded by their returned custom."

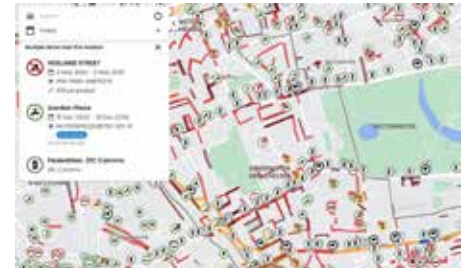
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# Leading NRSWA Street Works consultancy



Working across Hampshire, the South and nationwide, the Southampton-based company is gearing up for a busy two years of telecommunication road works, during the nationwide fibre roll-out. This is in addition to existing work within the Roadworks, Highways and NRSWA Street Works industry, with all utility services. Working in partnership with utility contractors, Local Authorities and groundwork contractors, Solent Streetworks Consultants are universally trusted with its leading turnkey utility solutions.



We spoke to Managing Director: Andrew Waight for greater insight, "We work with all the utility services: water, energy (gas),

power and telecommunications, adhering to the New Roads and Street Works Act 1991 (NRSWA) and Traffic Management Act 2004."

the best possible service for our clients. We have a strong bond and have built-up excellent relationships with Local Authorities across the country and these aid us to meet our clients' deadlines and targets."

In this issue of Building & Construction Review, we are delighted to select Solent Streetworks Consultants for our Commitment To Excellence.

The Direct Line Group reported back in 2022 that the number of road works across Great Britain had increased by 10% from 2019 to 2021, with a staggering estimated 55,000 miles of road works completed over the past three years. With an estimated 41.2 million registered car users across the UK (an increase of 1.3% from the previous year), according to the RAC Foundation, there is increased pressure on road surfaces. Motorways and all A-roads must be resurfaced every 10-12 years by law, as the combined impact of heavy traffic, heat, rain and air cause ongoing damage.

In addition to mandatory resurfacing, road works are also necessary for pothole repairs, white line and chevron painting and utility maintenance, repair and installation.

With the Data Age demanding more gigabits per second, the current analogue phone system: Public Switched Telephone Network (PSTN) is on schedule to be fully replaced with fibre-based digital technology across the UK by the end of 2025. This will see a proportional increase in road works, whilst this necessary telecommunications upgrade takes place.

Solent Streetworks & Consultants Ltd is a New Roads and Street Works Act 1991 (NRSWA) Street Works consultancy, offering highways and traffic management solutions across England, for all utilities services.

"We provide a 'turnkey' multi-utility back-office Street Works solution, along with the supply of Utility STATS/ Safe Digs and traffic management plans. We attend site meetings and carry out surveying work on the existing telecoms infrastructure."

Our business model is flexible enough to cater to each of our clients' individual needs, as what works for one, won't necessarily work for another. We have an excellent track record for minimising and mitigating and risks of Section 74 overstay (S74's) and Fixed Penalty Notices (FPN's). "The team has a collective, combined experience of over 25 years in the industry and are dedicated to providing

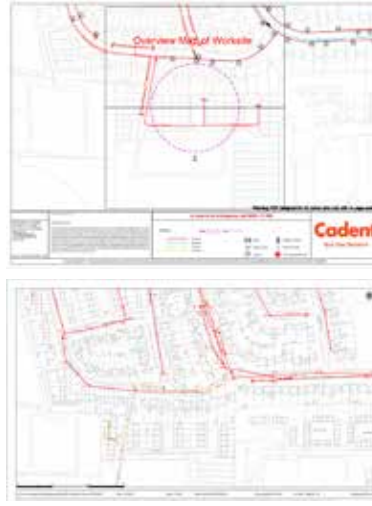
"We have furthered our industry relevant qualifications and knowledge, including becoming a CHAS Approved Business, accredited through the CITB. We are also a member of INCA - Independent Networks Co-operative Association and SCTE® (the Society for Broadband Professionals)."

**Solent Streetworks Consultants work across three main areas:**

- ▲ Street works planning
- ▲ Road works co-ordination
- ▲ Traffic management

Firstly, within street works planning, the dedicated team





manage all the planning and project management for the planned dig-phase, in close conjunction with local highway authorities, utility companies and contractors. This includes intricate details, such as managing permits and verifying works comply with the all-important New Roads and Street Works Act 1991 (NRSWA) and

effective road works co-ordination, to get our roads moving as quickly as possible. Through targeted, proactive co-ordination, the team assist Local Authorities, utility companies and contractors across England with planned street and road works. All managing and co-ordinating of permits is carried out in a seamless, professional manner.

Thirdly, Solent Streetworks Consultants deploy traffic management solutions, also known as road traffic control logistics in a manner conducive to exemplary health and safety standards. The bespoke traffic management plans are engineered to comply with all local and highway authority legislation. With a growing number of requests for road closure, in the form of pot holes, resurfacing roads, utility installation and routine maintenance throughout any given year, Solent Streetworks Consultants are on hand to offer expert guidance throughout.

The Southampton-based consultancy company was established six years ago and has grown in stature over the years. The last twelve months has been busy for the company, including attending the prestigious Street Works 2023 UK Awards in the Members Dining Hall at the Houses of Parliament during October 2023. The annual event celebrates the best from across the industry, in true style and ceremony.

The Street Works UK Conference 2023 then took place in November 2023 at the Hilton Birmingham Metropole. With attendees from across the industry, including Local Authorities, Government officials, it was the perfect opportunity to consider the challenges facing the industry post fibre-based digital technology installations.

We asked Andrew how it felt to be selected for our Commitment To Excellence, "We are always striving to better ourselves and deliver the best possible services to our clients, along with furthering our knowledge of any changes to any legislation. We employ three key qualities across our company: diligence, innovation and proactive planning, ensuring we bring expert, co-ordinated solutions to our partners."

"Although we work on nationwide contracts, we believe in supporting local businesses and as such, we are proud to declare our latest sponsorship portfolio: Southampton Football Club. We are also proud to announce that we recently secured numerous sponsorship deals with a local non-league football team – AFC Totton. They're enjoying a particularly successful period and over the last 12 months have secured the Southern League Division One South & West title in the 2022/23 season, among other accolades. We also sponsor Hedge End Town FC."

For more information, please see the details below:  
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**https://www.solentstreetworks.com**



the Traffic Management 2004. The flow of project management is managed effectively through early risk assessment, to enable the successful scheduling, permitting and health and safety, through to pre-construction planning, street works planning, watertight co-ordination throughout.

Secondly, Solent Streetworks Consultants ensure highly-



# Climate Resilience Buildings: Design and engineering for a greener future

In this issue of Building & Construction Review, we are delighted to select Bartels & Vedder with our New Year Spotlight Award 2024.

The influential architect Frank Gehry, famous for iconic buildings like Bilbao's Guggenheim Museum, once famously said, "Architecture should be a source of inspiration for people and the best compliment you can give an architect is that his building works."

Bartels & Vedder is a Dutch engineering consultancy company that indeed has many buildings and floating structures that 'work,' across the civil, structural, marine, commercial and residential engineering sectors. With eye-catching, stunning floating structures, the Dutch powerhouse creates impactful, meaningful buildings, offices, hotels and even bridges.

Established in 2011, from the original Aqua Life Nederland BV Company, Bartels & Vedder has sent ripples through



the design and engineering community, with stunning designs like the largest floating office in the world: The Floating Office Rotterdam (FOR.) The co-founders of Bartels & Vedder: Chiel Bartels and Jelle Vedder have systematically nurtured a company, based on a team of draughtsmen and engineers with two things in common: passion and purpose. Jelle Vedder co-founder elaborates further, "Our unique selling point is floating structures; this is indeed our signature style but we also work with many land-based projects. We are open to all manner of

challenges across the world, with many recent enquiries from Saudi Arabia, through to Japan and Europe."

"We prefer to term our style as 'climate resilience' design engineering and specialise in flood-proof buildings, even looking at stilt building. With high-water levels becoming an increasingly concern in many countries, across flood plains, we provide expert knowledge and practical application."

"Over the last twelve months, we have swerved the global recession and found ourselves working on numerous projects, both here at home in The Netherlands and further afield."

"What stands us apart from other design and engineering companies is our primary focus on passion and purpose. Our team are handpicked for professionalism, expertise but most importantly, joie de vivre and unbridled passion for their vocation."

Bartels & Vedder have 'fire in the belly' for every project executed and like true architectural artists, enjoy new challenges and creativity throughout.

"Profit over purpose might bring short-term gain but over time sloppy short-cuts won't do you any favours. We are more interested in having a passionate purpose in all our endeavours."

"If you imagine passion as the fuel in a car and purpose as the satnav, the passion will power the car like electricity







and the purpose will set a course. We are focused on organic growth, accepting challenging projects that come our way but not for purely monetary rewards, but for the thrill of the ride. We simply love what we do and 'conquering new markets or continents' is not in our DNA, we take great pride in creating jaw-dropping, beautiful, functional buildings," added Jelle.

The Bunschoten-Spakenburg, located company is also passionate about the next generation and supports younger trainees and university students. Throughout the year, many final-year architectural and engineering university students complete internships, projects and assessments through the company.

"It's a great opportunity for academic-based students to see how a real-world design and engineering company



crossing terminals. Bartels & Vedder have worked all over the world, with engineering projects in Dubai, Saudi Arabia, USA, Malaysia and Europe.

With the spotlight firmly on COP 28 in Dubai, United Arab Emirates, the design and engineering sector has made great strides towards greater sustainability, from floating solar parks, ground source heat pumps, to sustainably-sourced timber.

Bartels & Vedder are at the forefront of this through their newly termed, 'climate resilience' building style. Many contractors, government officials and private owners are requesting buildings with renewable energy packages built-in. The floating structures and buildings for **Schoonschip** in the IJ-canal in Amsterdam are now regarded as one of the most sustainable housing projects in Europe. **The Johan van Hasseltkanaal-located project** includes 30 houses, 46 households and over 100



**Jelle Vedder, Chief Executive Officer, Bartels & Vedder B.V.**

intricate details such as: stability, calculating drift forces from waves, and current and wind factors, to engineering access bridges and mooring facilities.

"We always consider optimised, renewable energy sources, from solar and heat pumps and factor this into all our designs. Next to that we even engineer and check floating solar parks which provides solar energy to the surrounding area."

"Looking ahead to 2024, we are honing our passionate, purposeful approach to global projects. We can offer a bespoke end-to-end service that is world-leading across the current market, from structural calculations, 3DBIM drawings, structural advice, monitoring and guidance, or just general structural advice," concludes Jelle.

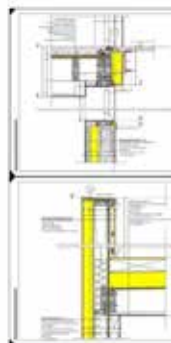
In the indelible words of Frank Gehry, "Great architecture has the power to transform lives, and elevate the human spirit...creativity in architecture is all about breaking the rules and challenging conventions."

Bartels & Vedder has proved they are worthy ambassadors of Gehry's vision, through innovative, awe-inspiring, feats of imaginative design engineering.

**For more information and to see the portfolio of work, please see the website below:**  
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3D BIM MODEL - TEKENINGEN



operates – they are always particularly impressed by the floating structure side of the business. We also support school-age pupils with work experience, if they are considering training to become an architect or engineer. Having even week-long work experience gives them realistic aspirations of what to expect in the workplace, once they have graduated," outlined Jelle.

The company attracts Dutch university students from over the Netherlands and with its close location to Utrecht, in the 'Randstad,' the team are in close proximity to Schiphol International Airport and various Ferry

residents. Furthermore, durable and floodproof housing projects such as the project in Rheden, where houses are built in a flood zone and designed in such a way that damages during a flood are managed.

Greener architecture is set to dominate future buildings styles, with a greater emphasis on securing optimal renewable energy sources but also building to withstand rising hot temperatures and water levels. Floating design structures are generally still quite unusual across the construction sector but are gaining traction across the globe.

Under the watchful eye of Chiel Bartels and Jelle Vedder: Bartels & Vedder are regarded as experts in the mechanical art of floating structures. These include



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# Kelly Tanks: Innovative concrete washout and water treatment systems



In this issue of Building and Construction Review, we are delighted to select Kelly Tanks as our Concrete Washout and Water Treatment Systems Company of the Year.

Waste water is a major factor across all construction sites and can vary dramatically in form and characteristics. Many companies are looking for a one-stop bespoke solution system to deal with waste water. Kelly Tanks offers complete, comprehensive on-site water management using the following sophisticated techniques: settlement and flotation, coagulation and flocculation, lamella, coalescence, mixed media backwash, filtration, oil and hydrocarbon absorption and pH control.

Kelly Tanks is a leading supplier of innovative, affordable concrete washout and water treatment solutions, designed to treat and recycle construction wet waste. The CWS Concrete Washout is the industry's choice for washing off concrete wagons and equipment, alongside a winning range of water treatment tanks and systems for filtration and separation. The additional Modular Dosing Units are used for the purpose of monitoring and controlling pH levels and/or proportional chemical dosing.

For those companies looking for Flow Meters in Frames, Kelly Tanks offer state-of-the-art hire and purchase options that offer optimised, accurate monitor flow rate and discharge, with lifting points and fork pockets, has robust easy to use meters and is noticeably quick and easy to set-up.

Kelly Tanks moves ahead with the times and is always showcasing new annual products for optimised safe, compliant waste treatment across UK construction sites and further afield, including water treatment, remote monitoring and renewable energy. Sustainability is a huge deciding factor for many construction companies across the UK now and Kelly Tanks can supply tanks powered by renewable energy to new and existing customers, allowing for eco-friendly best practice.

We caught up with Managing Director: Mark Stubbs to find out how the business have fared over the last twelve months, "Kelly Tanks is the company of choice when looking for efficient and cost-effective solutions for concrete washout and wastewater solutions. With a firm position at the forefront of innovation, Kelly Tanks can be trusted to deliver the best solution every time. Our business mantra moving forward is 'Growth' – continuing



to introduce innovative new equipment, backed by further investment in workforce and facilities."

"On reflection, it has been a great year for Kelly Tanks, notable highlights include: new products, the furthering development of existing products, increased skilled workforce and updated, expanded facilities. We have seen an upsurge in demand for our services and products as forecasted, so we are laser focused on continual growth across our entire range of equipment."

"What stands our company apart is supplying leading yet simple, effective and affordable solutions that achieve optimised results for recycling waste water."

"We have the UK's largest fleet of Concrete Washout Products, including closed loop and auto pH correction units. Our Small footprint equipment, washout trays, and frames and platform are the industry's choice across the construction industry."

Kelly Tanks offers the following solutions to the construction industry:

- ▲ **Concrete Washout:** Enables concrete equipment to be washed off safely
- ▲ **Hydro-demolition:** Leading water treatment solutions for high-alkaline hydro-demolition waste.
- ▲ **Water Treatment:** Full systems and self-contained units to separate and treat waste water and water quality monitoring systems.
- ▲ **Bespoke Systems:** Customised solutions to suit all applications
- ▲ **pH Control:** Modular attachments and systems for pH monitoring and control
- ▲ **Water Management:** Comprehensive on-site water management consultancy for testing, supply, installation and maintenance.
- ▲ **Concrete Washout Sacks:** Adsorption sacks are designed for retention of solids, cementitious particles and oil residue, whilst simultaneously encouraging water to drain.

If you're looking for leading concrete washout and water treatment systems, then Kelly Tanks offers multiple benefits:

- ▲ Small footprint equipment
- ▲ Units linked to handle a range of flows, pumps sizes and particle characteristics
- ▲ Quick and easy set-up
- ▲ Reduced off-site disposal costs



- ▲ Easy to maintain equipment
- ▲ Sustainability focus-reduced risk of pollution

"Here at Kelly Tanks, we are focused on bringing industry-leading products to market. Our CWS Ultra recycles wash water for example, automatically corrects the pH and separates/retains solids in a 1 Tonne adsorption sack for easy removal, re-use or disposal. The Ultra also includes a high-volume pump to supply optimal hose pressure for wash off - making this the leading on-site solution."

"We are proud to be featured as the Building and Construction Review Concrete Washout and Water Treatment Systems Company of the Year. It is testament to our ongoing dedication and innovative product line," concluded Mark.

Kelly Tanks will be at the following 2024 trade shows:

- 1) **The UK Concrete Show**  
20th-21st March 2024
- 2) **Hillhead**  
25th-27th June 2024 (Stand A6)
- 3) **CLR Expo**  
11th-12th September 2024  
Stand (CLR-E160)

For more information on how Kelly Tanks can help you, please see below:  
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# Belisha Beacons and Feeder Pillars with next day dispatch from stock

We keep stocks of our mains powered Belisha & Refuge Beacons including spares and retro fit accessories. You could receive your order of our ever reliable; mains powered AmberGLO or our illuminated column version – the OlympiadIPB in just a few days. We also have stock of our LED Beacon Flashing Units – both pre-wired and BC22 Bayonet fitting. These retro fit into any Belisha gallery. You can also purchase spares, accessories and extras like our Lumos4 LED Crossing Spotlight and Courtesy Shields. Our newest Solar Powered Belisha will be available soon!



Please see: [www.fisherandcompany.co.uk](http://www.fisherandcompany.co.uk) to view our great range of products which also include Lighting & Sign Brackets and Electrically Insulated Digging Tools. We're ISO 9001:2015 Quality Certified for your peace of mind. So, for a Quote for your latest project please contact us on: 0333 666 2122 or email: [info@fisherandcompany.co.uk](mailto:info@fisherandcompany.co.uk).

We also keep stock of Feeder Pillars in a range of standard sizes and larger Pillars, including GRP. This means you could have your order within 24-48 hours\* and not have to wait for weeks. Our bespoke and made to order sizes are available from a super-fast 2 weeks from order!

We've been manufacturing high quality products since 1982 and supply Contractors, Wholesalers and Local Authorities for a wide variety of purposes from highways & streetlighting, outdoor power distribution to car parks, facilities, market stalls, Hospital MRI and EV charging. Anywhere outside that needs a power supply.

\*Some postcodes and transport services are 3-5 days



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Bluerun manufactures quality, bespoke joinery items and everything is made to order, nothing is 'off the shelf.'

If you're looking for items made from both hard and softwood or even veneered and painted panels, Bluerun can reproduce an array of items including replacement sashes, where it can manufacture a brand new one on a like for like basis, so the mouldings will match.



Bluerun only produce purpose made joinery to client's drawings and specifications. Its unrivalled level of customer services means that free quotations are normally provided within 2-3 days or less, and the company can usually deliver a quick turnaround of any manufactured items required. And, because it has an experienced spray operative in charge of a modern spray paint and lacquer facility, articles can leave the factory in a fully finished state, ready for installation on-site.



What really sets Bluerun apart is that since its establishment it has never used computer aided machinery for any designs. Crafted to perfection, all items are finished by hand, drawings are prepared with pencil and paper, and everything that is manufactured by the team has been done so with the utmost attention to detail.

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Pandor's extensive portfolio includes fire doors and door sets – certified to FD30/FD60/FD90/FD120 as required, acoustic doors, joinery and panelling, each made to your sizes and finished either clear or in paint as required. Each product comes manufactured to superlative quality with the upmost attention to detail and delivered to you in the shortest lead times.

Manufacturing out of its factory in Sittingbourne, Kent,

Pandor has high-quality state of the art machinery helping to achieve the best standard of manufacturing. From the Holzher 5 axis CNC twin bed router to heavy duty sanding machines, veneer presses and lipping and edge banding technology, Pandor can achieve maximum throughput, competitive lead times and accurate, high-quality standards to rival any large-scale competitor.

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## CONSULTANCY FOR HOUSING DEVELOPMENTS

Bright Ideas has submitted a planning application for 22 energy efficient homes on a disused brown field site on Chillingham Road, Heaton, Newcastle. All the properties will have 2 bedrooms and be available for rent, with an option to buy for the residents when they have the resources to do so.

We have designed the homes with modular construction in mind, so that when the scheme gets on-site, the construction will be quick, smooth and efficient.

[www.brightideasdevelopment.co.uk](http://www.brightideasdevelopment.co.uk)  
Telephone 07714 412689  
Email [info@brightideasdevelopment.co.uk](mailto:info@brightideasdevelopment.co.uk)



# Eco Clipper FM4 Sport for Sports Grounds

Eco Clipper offers large area mowers that help field managers minimise mowing costs while producing a professional finish. The Eco Clipper mowing system was originally developed to replace the cylinder mower in turfgrass production. The aim was to retain the cutting performance of a well-tuned cylinder mower, but not the high maintenance requirements and sensitivity to mowing conditions, such as wet grass and weeds.



advantages of the Eco Clipper mowing system. For them, Eco Clipper offers the EC-FM4 Sport. This 4.11m wide mower has four independent mowing decks. Its position in front of the tractor provides excellent visibility and comfort for the tractor driver.

#### The benefits

Users report high productivity gains and appreciate the low maintenance requirements and the ability to schedule mowing even under less favourable conditions, such as early morning dew and wet autumn, which can often prevent removal of grass clippings.

#### The system

The smooth cutting decks with fast spinning small blades ensure a high quality of cut and a good distribution of clippings. Thanks to the electrically driven

blades, the mower is very economical and quiet. The large wheels and smart mower deck linking system ensure good contour following and enable high mowing speeds. Municipalities and sports field and park managers have also discovered the

For more information, please contact: [info@vanmac.co.uk](mailto:info@vanmac.co.uk)  
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**ECO CLIPPER**

# Nationwide Louvre Company



Nationwide Louvre Company manufactures high quality aluminium Louvres, Louvred Doors, Louvred Plant Screens, Acoustic Louvres, Acoustic Screening, Aluminium & Timber Brise Soleil/Solar Shading.



Nationwide Louvre Company offers a full supply and installation service to its customers throughout the UK and have completed a number of projects in the Channel Isles and Europe. The business installs bespoke made to measure quality products on residential, commercial and construction projects.

Nationwide Louvre Company specialise in Brise Soleil and louvred plant screening. Brise Soleil projects are supported with computer simulation software to assess the effectiveness of our products in reducing the effects of solar gain on buildings.

Brise Soleil not only enhances the appearance of a building but will provide a

much better living or working environment for the building's occupants, with the added benefit of reducing glare to help with computer work and will reduce the running costs of mechanical ventilation and air conditioning.

Our Screening Louvre Systems are used to hide roof mounted plant and equipment and are available in a range of blade shapes and sizes. Supplied in an enormous range of colours and finishes will screen unsightly equipment and enrich the building façade.

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## Qualitative and quantitative fit testing and fit test training

We have experience in face fit testing, and we have Fit2Fit accredited fit testers in our team. Meaning our methods have been checked and confirmed with best practice for face fit testing in line with the BSIF and HSE.

Our experienced dental team, with a wealth of dental experience are now delighted to be able to offer a fit test service for FFP3, FFP2 and FFP1 masks. Using the 3M qualitative testing kit, we can arrange appointments at your workplace to fit test your staff, with your own masks.

Quantitative face fit testing eliminates the guesswork associated with error-prone qualitative fit test methods. Using the PortaCount Pro Respirator Fit Tester 8030 fit tester, we can now quantitatively fit test

so many types of respirators – gas masks, SCBAs, respirators. If the mask requires fit testing, count on the PortaCount Pro fit tester to provide the fastest and easiest HSE (UK) and OSHA (US)-compliant fit test method.

We also provide fit test training at our Head Office in Winnersh, Wokingham – The Train the Tester course to provide you with knowledge, skills and confidence or Train the Tester RPE Refresher, which is hands on and practical.

Contact Andy at: [andy@cavity-fit-test.co.uk](mailto:andy@cavity-fit-test.co.uk) or call: 0118 214 6192 to get your local fit tester today.

You can visit: [www.cavity-fit-test.co.uk](http://www.cavity-fit-test.co.uk) for more information.



## Temporary Catering facilities for use during Kitchen refurbishments



Mobile Kitchens Ltd specialises in the hire of temporary catering facilities and foodservice equipment.

Ideal for events or to provide temporary catering facilities during your kitchen refurbishment, our versatile units and equipment offer an efficient and economical solution to the caterers' needs.

Production Kitchens, Preparation Kitchens, Ware-washing Units, Dry Store Units, Cold Rooms and Restaurant Units are available as individual units in their own right or they can be linked together on-site to form a complete complex.

Alternatively, we can offer modular, open-plan facilities,



usually for larger, longer-term hires. We offer a free design service, and project management from concept through to delivery and installation on-site, plus full technical support throughout the hire period.

The standard specification of our Medium Production Kitchen unit includes a six-burner oven range, salamander grill, twin basket fryer, undercounter fridge, undercounter freezer, hot cupboard, double bowl sink unit with integral hand wash basin, storage racking, plus ample power points to plug in Microwaves, Food Processors, Toasters etc. Internal equipment can be interchanged, and clients can effectively specify their preferred layout.

We have many tried and tested design layouts and would be pleased to put forward our recommendations for your project.

So, if you're planning a refurbishment or need to cater for an event then why not give us a call and we'll be happy to provide advice and put forward a competitive proposal.

For further information or to arrange a site, please visit, email: [sales@mk-hire.co.uk](mailto:sales@mk-hire.co.uk) or call us on: 0345 812 0800 or visit our website: [www.mk-hire.co.uk](http://www.mk-hire.co.uk)

## Sealing heat pump services with precision German engineering – meet DOYMAfix®

In this issue of Building & Construction Review, we are delighted to select Service Sealing Solutions Ltd as our New Year Spotlight Company.

Service Sealing Solutions Ltd supply a number of different sealing solutions across the UK to both the public and private sectors, from transport infrastructure projects, country estates, civil engineering projects, through to energy for waste. As the sole UK distributor for the sealing industry's renowned top manufacturers: DOYMA and HKD, Service Sealing Solutions Ltd specialises in high-quality service duct sealing systems for utility services and watertight seals. DOYMA stands head and shoulders above its competitors, with its superior German engineering. DOYMA products have a fantastic reputation: they come with a 25-year warranty.

"We are looking to further capitalise on DOYMA products, with the exclusive introduction of the DOYMAfix®. This product will be aimed at heat pump installers, which is a growing trend in the UK, as part of a move towards more sustainable, renewable energy sources. The seal can be used across a range of wall structures for air-to-water heat



pumps, allowing integrated thermal insulation and wall penetration for above-ground building exterior walls.

We will be showcasing this new, exclusive product across the construction sector in the New Year and it signals our move towards a rapidly growing green building sector, as part of the push towards the UK Government's tightened Part L Building Regulations and 2050 net-zero targets," explained Jim McAra: Sales Director.

**For more information, please see below:**  
**T 01952 510050**  
[www.servicesealingsolutions.co.uk](http://www.servicesealingsolutions.co.uk)

## Commissioning Tree Information for planning, in line with BS5837:2012 (RIBA) Plan of Work (2020)

Barnes Associates Ltd are leading tree surveyor helping architects and developers with their schemes. Tree surveys to BS5837 are our speciality. We provide high quality arboricultural impact assessments and Tree Protection Plans.



plans with liaison with ecologists. We can provide tree planting and landscape schemes as well.

Arboricultural method statements are regularly a conditional item, we liaise with developers to ensure storage areas and facilities on-site can be practical whilst still protecting trees.

Often further investigation is required to find out where tree roots are – we provide Tree Root mapping (Tree Radar) services throughout the UK too.

We problem solve so building near trees is possible. Regardless of their protected status, all trees can be a material consideration in a planning application. To ensure a smooth passage through the planning process, you and your design team will need information in line with British Standard 'Trees in relation to construction – Recommendations' BS5837:2012, the national standard for the management of trees on and close to the development, redevelopment and building sites.

Works are done in stages initial assessment/development windows.' We provide tree constraints plans in CAD 2D and 3D. Tree retention and removal

**Contact Sue Barnes, Director & Landscape & Arboricultural Consultant:**  
**T 01423 322371**  
[info@barnesassociates.co.uk](mailto:info@barnesassociates.co.uk)  
[www.barnesassociates.co.uk](http://www.barnesassociates.co.uk)  
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**Service Sealing Solutions Ltd**

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## Reliable and safe access whatever your needs are



Atlantic Access Scaffolding Limited are scaffolding erectors and hirers based in Liverpool and the North West. Providing safe, access equipment for a multitude of different jobs including roofing, bricklaying and much more, for industrial, domestic and commercial projects.

Maintaining a committed, skilled and loyal team, Atlantic Access Scaffolding Limited offers a highly professional service and utilises its experienced and expert team of long serving employees, of 10 years plus. This has positioned the company with the industry knowledge to assist with varying sized projects and Atlantic Access Scaffolding Limited has built a strong reputation for its high quality service, personable approach and competitive prices.

The company offers its services for all

residential work, new build properties, demolition work and commercial. Some of its recent commercial projects include: Vinci IHP on Preston Royal Hospital, the Boohoo main office in Manchester for Hightown Construction, Grahams Liverpool flyovers demolition, Parkinson Construction on Oldham Royal Hospital and Salford Hospital, John Turners on Whiston Hospital, ongoing Maintenance package for Daresbury Science Technology Park and ongoing works for the National Trust on Speke Hall and Chambre House in Liverpool.

If you would like to find out more, please see the details below:

Ste Long, Director,  
T 0151 549 1551  
M 07917 193357  
[ste@atlanticnw.co.uk](mailto:ste@atlanticnw.co.uk)  
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## The UK's leading wastewater monitoring and treatment experts



Initially developed by Smart Storm for the Thames Tideway project, The Neutralizer™ is a unique, mobile, in-line treatment plant that uses only CO<sub>2</sub> to continuously neutralise concrete washout water.

### The concrete wash water issue

The pH of concrete wash water from construction and building sites is highly caustic (pH 12-14) and very damaging to the environment if untreated. It is illegal to discharge without an acceptable pH level (usually 6-9).

Equally, this applies to concrete wagon washouts to sewer and surface drains, where usually illegal to discharge below pH 6 and above pH 10.

This high alkaline wastewater is customarily treated with hazardous chemicals on a batch basis.

### Neutralizer™ CO<sub>2</sub> concrete washout treatment

The Neutralizer™ works by monitoring the caustic washout with Smart Storm's USM pH meter and based on the readings, carbon dioxide (CO<sub>2</sub>) is

automatically dissolved into the wash water flow to reduce the pH to a safe level for discharge; this happens on a continuous flow basis.

Smart Storm's USI, a multiple water parameter meter, provides a 7" touch screen interface for user-friendly operation. A Magflow flow meter monitors the effluent leaving the unit, which can treat up to 25m<sup>3</sup> of wastewater per hour.

CO<sub>2</sub> dissolved in water is slightly acidic so is ideal for neutralising concrete wash water and CO<sub>2</sub> self-buffers so cannot overdose no matter how much is injected.

**Available to purchase or hire; contact Smart Storm Ltd to find out more:**

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## Tool hire specialist for air and hydraulic tools



APP site services

APP Site Services are a leading distributor of site supplies and services to the construction industry. One of our main focuses of the business is our hire and sales department for construction tools.

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# Premium Shou Sugi Ban® Timber Cladding

Sustainable, low maintenance and stunning; it's no wonder that architects specify Shou Sugi Ban® timber cladding for contemporary builds and heritage renovations.

Traditional Japanese timber homes were preserved using a charring technique called Yasisugi. The process blackens the wood and increases its resilience to weather, insects, flames and mould. When we first discovered this, our team were keen to master the process and develop a premium timber cladding range.

Shou Sugi Ban® is manufactured by hand in our Buckinghamshire workshop.

Not all charred timber is black. Our skilled team brush, char and finish FSC® certified timbers to create a highly desirable selection of cladding including:

- ▲ Lightened timbers including Kebony Legima
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Suitable for exterior and interior use, Shou Sugi Ban® offers a classic, timeless aesthetic. It complements other construction materials and helps a building to blend into its surroundings. It's little wonder that this premium timber cladding is specified for RIBA award-winning properties and historically sensitive renovations!

Please get in touch with Exterior Solutions Ltd for further information, quotes and samples.

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# Air conditioning and heating solutions

Clima-Tech was founded in 2015 by Ashley Shemmings, a self-employed specialist in heating engineering with over 18 years' experience in the engineering industry. Clima-Tech is a family run business and alongside Ashley, wife Franki Shemmings works in the office. What started off as a maintenance and servicing company, soon evolved into a specialist multi-faceted service with a proven track record in the electrical, refrigeration, domestic, and commercial sectors.



Clima-Tech is well trusted and well established in the renewable energy field. Clima-Tech is hands on and works closely with its clients to ensure that the best service is delivered. Clima-Tech is an approved contractor by the following certified bodies: Microgeneration Certification Scheme (MCS), Renewable Energy Consumer Code (RECC), IWA, and REFCOM. Furthermore, Ashley has trained to the highest level, holding qualifications such as City and guilds 2360 NICEIC certified, City and guilds F-GAS, B-PEC G3 unvented, B-PEC Heat pump design, and B-PEC water regulation.

Clima-Tech specialise in a range of core services in the renewable energy field for MCS/RHI registration systems, Heat pumps, Heating systems, Electrical system design and installation, System commissioning, Air conditioning, Solar panel specification, design, installation, repair and maintenance, and Underfloor Heating and Plumbing works.

We now have a showroom open in Martlesham. We want to help more households experience the benefits that heat pumps can bring – and to encourage early adopters to make the move. Our showroom will share information about all the advantages of heat pumps, while busting myths about barriers to adoption. Our showroom has a working heat pump in place to demonstrate the technology in action, alongside everything that goes with them, including cylinders and controls.

Clima-Tech has been the receiver of many awards over the years receiving first, second and third place in the following: 2019 National Energy Efficiency Awards, Energy Efficiency Champion and Commend Renewable Heat Installer & Contractor 2020/21 and the National Energy Efficiency Awards 2020/21. Another milestone for the company was in 2021 when Clima-Tech employed its first member of staff.

**Contact**  
T 01473 798321  
[ashley@clima-techservices.co.uk](mailto:ashley@clima-techservices.co.uk)  
[www.clima-techservices.co.uk](http://www.clima-techservices.co.uk)

# Spotlighting the Timber Decking and Cladding Association



The Timber Decking & Cladding Association (TDCA) is an independent, not-for-profit advisory organisation, established to influence and promote good industry practice. We're here to raise the bar on all things decking and cladding. Whether you're a landscaper, architect, specifier, contractor or DIY enthusiast, we can help. We have industry experience, a library of free resources and a growing member supplier list with independent third-party verification.



The Decking and Cladding Handbooks are produced in partnership with Timber Development UK and are free to download from our website

It can be tricky to distinguish good from bad quality, especially when searching online. Step in DeckMark and CladMark. TDCA accreditation schemes which recognise manufacturers, suppliers and installers who work to the highest standards in their fields. From wood coating products to deck design engineers, simply search our database to pinpoint what you require. Or get in touch – TDCA offers a sourcing service, just give us you're decking or cladding project details and we'll find the right supplier for you.

Other services we can offer include: product selection advice; assistance with project specification; installation guidance; site inspection and expert witness services. Go to our website for free to download technical guides, an approved supplier database, project inspiration, handy Q&As and much more.

Visit: [www.tdca.org.uk](http://www.tdca.org.uk) to learn more or call: 01977 558147.

# BespokeCrete

BespokeCrete creates custom and bespoke furniture, outdoor kitchens, kitchen worktops, waterfall islands, patio sets, indoor table & bench sets, coffee tables, baths, sinks and so much more. Every item is custom built, by hand – using local materials and trades, in our Norfolk workshop. BespokeCrete crafts furniture from wood or steel – that is coated in our full Microcement system, over several days – creating a strong and fully waterproof surface that is heat, stain and scratch resist.



With our team of in-house steel fabricators and master carpenters – we can bring our customers design concepts to reality. At BespokeCrete – we have a range of stunning furniture or we can create a completely bespoke design of your choosing.

furniture from wood and coating it in Microcement – creating a personal and unique piece of art/furniture.

Bespokecrete work with designers, architects, contractors and the general public with a large proportion of our work being completely bespoke. Microcement is available in a multitude of colours – now with the option to colour match to RAL, Farrow & Ball, Dulux, Little Green, Fired Earth and Pantone colours.

Microcement is a thin 2-3mm cement and resin hybrid coating that can be applied to a multitude of surfaces. It is great for inside or outside use, creating stunning

For more information, please see below.  
T 0800 0614157  
[info@bespokecrete.com](mailto:info@bespokecrete.com)  
[www.bespokecrete.com](http://www.bespokecrete.com)

# LSTA: Specialist Applied Skills Programme (SAP) Course

Places are available for the Lead & Hard Metals Specialist Applied Skills Programme (SAP) for the 22nd of January 2024. Candidates will achieve the following:

- ▲ NOCN Level 2 NVQ Lead & Hard Metals Roofing Operative & City and Guild Accreditation Traditional Intermediate Lead or Hard Metal craft. An 18-month programme with 7 weeks training split into 1-week blocks at the LSTA followed by an onsite assessment for NVQ.
- ▲ NOCN Level 3 NVQ Heritage Lead & Hard Metals Roofing Operative & City and Guild Accreditation Traditional Advanced/Heritage Lead or Hard Metal craft. Fully funded apart from £99.00 registration fee. An 18-month programme with 3 weeks training split into 1-week blocks at the LSTA followed by an onsite assessment for NVQ.

CITB funding is available for companies that are CITB Registered, for accommodation, food & travel through the CITB "Travel to Train" see link. 80% of the costs are covered through this scheme



[www.citb.co.uk/levy-grants-and-funding/grants-and-funding/apprenticeship-travel-and-accommodation-funding-travel-to-train](http://www.citb.co.uk/levy-grants-and-funding/grants-and-funding/apprenticeship-travel-and-accommodation-funding-travel-to-train)

Investing in the next generation of Lead or Hard Metal workers helps support your business success for the future.

**Please call: 01622 872432/ 07961 659802 or email Sharon at: [info@leadsheet.co.uk](mailto:info@leadsheet.co.uk) for further information.**

# Hydro Heater's



Hydro Heater's brand new portable rapid water heater can heat hot tubs, pools and any contained water volume in record time.

The revolutionary new heater is particularly well suited to holiday park, holiday let and glamp site operators who have hot tubs as part of their offering.

The Hydro Heater's one hour heat up time now enables operators to drain, refill and reheat their hot tubs within a short time window, thus ensuring that their tubs are hot and ready for customers to enjoy as soon as they check into their accommodation later the same day.

Pictured with Hydro Heater Managing Director David Donald is Ryan Birchall,

product quality manager at Forest Holidays, taking delivery of 10 Hydro Heaters at their site in Keldy, North Yorkshire. The introduction of the Hydro Heaters will mean substantial savings in time and energy costs to the tune of tens of thousands of pounds per year on each of their parks for the company, a certified B Corporation. Not to mention the smiling faces of guests who can enjoy their hot tub as soon as they arrive!

The Hydro Heater's 60kW output will heat a hot tub 20 times faster than a typical electric heater, with operating costs from 5.5p per kWh.

**For more information:**  
**T +44 (0) 203 457 0343**  
[www.hydro-heater.co.uk](http://www.hydro-heater.co.uk)

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# Hebridean housebuilder specifying SterlingOSB Zero on sustainability grounds

Situated seven degrees west of the Greenwich Meridian, and exposed to some of the harshest weather conditions anywhere in the British Isles, the Hebrides present a challenging location for building projects, prompting a recently-established building company to adopt offsite construction technologies which make full use of the technical and environmental benefits of West Fraser's SterlingOSB Zero.

70-22' Systems was established in 2022 by three business partners whose experience encapsulates architecture, education and manufacturing amongst other skills, and who decided to develop their own highly-insulated, modular timber building system. Growing organically by providing bespoke packages to clients of parent business, Fraser Architecture, 70-22' has already delivered properties on the Outer Hebrides; and has more than half a dozen schemes of different sizes in the pipeline for the coming year.

The trademarked system has been designed specifically to avoid the need for craneage, due to the inaccessibility of many sites, while the cellular component modules take the form of wall blocks, lintels and beams to span larger openings. The SterlingOSB Zero is CNC machined and assembled in the workshop before being filled with Warmcel recycled paper insulation.

Significantly, the 70-22' Systems design personnel were determined from the outset to utilise the West Fraser board because of its formaldehyde free formulation and the fact the material is manufactured in the North of

Scotland, using mainly locally sourced softwood from well managed forests.

70-22' Systems' co-founder and Commercial Director, Alex Durie, commented: "We use West Fraser's SterlingOSB Zero to construct our ecological building components, that are prefabricated in our workshop utilising CNC technology to achieve 0.1mm tolerances for each beam and block. It is the ideal material to use as the shell for our components, which are then filled with recycled insulation to achieve a building system that can achieve market leading thermal performance, with a U-value of 0.1 W/m<sup>2</sup>K, and excellent air-tightness, while maintaining a breathable floor, wall and roof construction. The added bonus of being formaldehyde-free, OSB enables us to build ecologically, utilising timber grown and processed in Scotland as we aim to limit the travel miles in each of our builds. The OSB produced by West Fraser has performed very well in our structural testing, with our system proving to be 1.6 times stronger than a traditional timber frame – and as our system arrives on-site as a component that is pre-fabricated, pre-insulated and designed for manual handling, it is much quicker to assemble."

Not only do all of the 70-22' Systems structures exceed the thermal requirements of Section 6 to the Building



Standards, Scotland, but can also be delivered as a Passivhaus compliant solution where the client or planning consent demand it. In the medium to long term, the business is building a pattern book of standard house types and has plans to establish a pilot plant on the mainland. The company will also be showcasing its system at the Self-Build and Renovation exhibition in Aviemore this autumn.

SterlingOSB Zero is available in a range of sizes and thicknesses up to 22mm as well as a T&G version ideal for flooring and decking applications. The high performance panel product, free of added formaldehyde, has also earned BBA approval and meets the requirements of NHBC Technical.

As is always the case, West Fraser's experienced technical team is available to aid with product specification, while downloadable data sheets are available at: <https://uk.westfraser.com>

For further information, call: 01786 812921 or visit: <https://uk.westfraser.com>



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# NeutraliZer™ CO<sub>2</sub> concrete washout solution

Developed by Smart Storm, The NeutraliZer™ is a unique, mobile, in-line treatment plant that uses only CO<sub>2</sub> to continuously neutralise concrete washout water.

### Concrete Washout

pH of concrete wash water from construction sites is highly caustic, posing environmental and legal risks if discharged with unacceptable pH levels.

Equally, this applies to concrete wagon washouts to sewer and surface drains.

This high alkaline wastewater is usually treated with hazardous chemicals on a batch basis.

### Smart Storm's In-line concrete washout treatment

The NeutraliZer™ works by monitoring the caustic washout with Smart Storm's USM pH meter, and based on these readings, carbon dioxide (CO<sub>2</sub>) is automatically dissolved into the wash water flow via Smart storm's USI (Smart Instrument) to reduce the pH to a safe level for discharge; all this happens on a continuous flow basis.

A flow meter monitors the effluent leaving the unit,



which can treat up to 25m<sup>3</sup> of wastewater per hour. CO<sub>2</sub> dissolved in water is slightly acidic so is ideal for neutralising concrete wash water.

The Neutralizer comes with an IOT remote monitoring system as standard so the user can monitor 24/7 the status of the pH balancing and show compliance with logs and graphs to regulatory bodies, such as the EA, Natural Resources Wales and SEEPA.

Available to purchase or hire; contact Smart Storm Ltd to find out more:

T +44 (0)1422 363462

[enquiries@smartstormgroup.com](mailto:enquiries@smartstormgroup.com)

[www.smartstormgroup.com](http://www.smartstormgroup.com)

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**Sustainable Solutions: It's time to make the switch**

As the world continues to grapple with the effects of climate change, it's essential that we take firm steps to reduce our carbon footprint. One of the most impactful changes that can be made in both the building and landscaping industries is to switch to eco-friendly, low-carbon, maintenance-free solutions.



**Eco-friendly products that last a lifetime**

Recycled plastic materials offer a number of advantages over traditional wood and metal solutions. Recycled plastic is far more durable than wood, and will never rot or corrode over time. It's also easier and faster to install, often coming pre-cut to size and ready to assemble. In terms of eco-friendliness, recycled plastic is an excellent choice for both building and landscaping. It's completely recyclable, meaning that it can be recycled and reused many times.

with the National Trust. From recycled plastic decking boards, fencing and cladding to outdoor furniture and building materials, their low-maintenance, affordable alternatives are designed to promote greener living.

**Contact**  
**T 01282 861325**  
[info@kedel.co.uk](mailto:info@kedel.co.uk)  
[www.kedel.co.uk](http://www.kedel.co.uk)

**Kedel: A commitment to sustainable living**

Leading the charge for more sustainable recycled plastic products is Kedel, a family-run business based in Burnley. With a mission to display the very best in recycled plastic materials, Kedel puts eco-friendly living at the heart of its business, recently working



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