

ISSUE 10 DECEMBER 2022

GROUND UP

THE LATEST NEWS FROM YOUR TRUSTED CIVILS SUPPLIER



PRODUCT SPOTLIGHT
Next generation AquaCell NG attenuation tank arrive



PRODUCT SPOTLIGHT
Mono Beany combined kerb and drainage system



SUSTAINABILITY
Wildlife friendly highway design



KEYLINE COMMUNITY
A round up of 2022



AQUACELL NG - THE NEXT GENERATION



The next generation of AquaCell is here. AquaCell NG equips contractors, civil engineers and installers with a powerful new advance in the construction of surface water management tanks. Manufactured in the UK from 100% recycled and recyclable plastic, it represents the future of

sustainable drainage. It has been designed with modern construction in mind and delivers a huge advance in speed of attenuation tank construction.

In a side-by-side comparison it is three times faster than previous generations of AquaCell to install, aided by

push-fit connections and a tool-free build. It's compact too – the nested design takes up four times less valuable space on site, reduces the number of deliveries to site by four times, reduces the carbon footprint of those deliveries, and reduces manual handling by four times when unloading and in material movements during installation.

Push-fit functionality with integrated connectors means units easily connect to create a stable tank without the need for clips, pegs or tools. Lightweight units with integrated hand grips speed up installation to help dramatically reduce tank construction times. The modular design means tank orientation and shape can easily be configured to fit within any site constraints and still deliver effective attenuation. A distinctive circular guide on top of each unit helps to ensure the correct orientation and right-first-time installation.

Wavin has created an intuitive configuration tool for their technical team to quickly create accurate and compliant designs, as well as resolving site specific issues.

For your next project, why not talk to our Keyline team about Wavin's innovative products?



PRO-SHIELD MAX MADE IN BRITAIN



Pro-Shield Max, the innovative B125 access cover solution is designed and manufactured right here in the UK and is just one of the many Clark Drain's products to qualify for the Made in Britain mark.

RECYCLED AND RECYCLABLE

The Pro-Shield Max is constructed of lightweight

and durable glass filled nylon. Both recycled and recyclable, it delivers strength, safety, and security for applications on driveways and pedestrian areas.

The cover, frame, and reducer all lock into each other, for a secure and safe installation. With a load bearing of 12.5 tonnes, it's suitable for areas where heavier vehicles pass

such as driveways. It also has a unique slip-resistant surface tread pattern to increase safety underfoot.

Get a closer look at Clark Drain products at your local Keyline branch.



MARSHALLS MONO BEANY: SO SIMPLE

Marshalls Civils & Drainage Mono Beany combined kerb and drainage (CKD) system provides a simple and effective solution to the problem of how to keep motorists safe and Britain on the move during heavy rainfall events.

39% MORE RAIN PREDICTED

The UK Climate Projections Report 2022, published by The Met Office in conjunction with The Environment Agency, predicts that, by 2070, winter rainfall could increase by up to 39%. And we're not just talking about extreme weather events, but more constant and heavier rain.

A SUCCESSFUL CKD SYSTEM

With over 300,000 linear metres delivered, the Mono Beany is already one of the UK's most popular CKD systems, installed successfully on the M1, A1, A19, and A259 and in transport and logistics hubs across the UK. It carries a BSI Kitemark, is CE approved and is certified to BS EN:1433.

ONE PIECE DESIGN

The system's simple, one-piece construction - out of high-strength M-Tech concrete - delivers D400 load classification alongside a streamlined aesthetic. Two depths and a choice between half-battered and 45° splayed profiles make it suitable for a wide variety of applications.

QUICK TO INSTALL

Mono Beany is also economical, simple, and quick to install. Design, detailing, setting out, and installation are all efficient and straightforward - even moving 500mm and 1000mm lengths requires only a single mechanical lift. During an M1 installation, the contractor was scheduled to lay 240m daily. On site, they were achieving 340m per day, so the project timeline was accelerated, and disruption to the carriageway was minimised.

SIMPLIFIED SYSTEM

Combining water interception and transportation, the system eliminates the need for carrier drains, gullies, and maintenance holes.

Excavations and haunching are also minimised, existing underground cables and services are avoided, and formation and sub-base surfaces are not exposed to adverse weather.

UNCOMPLICATED MAINTENANCE

Even maintenance is uncomplicated. The steeply inclined and divergent inlet apertures help Mono Beany stay free from blockages. All that's required is periodic inspection and emptying of silt traps, outfalls, and catchpits. If a blockage does occur, it can easily be located and rectified by rodding or jetting from an access point or through a top block aperture. What could be simpler?

EXCELLENT FLOW HYDRAULICS

But what about effectiveness? Each slip and skid-resistant concrete unit contains a low-friction, 100% recycled polyethylene core. This delivers excellent flow hydraulics with reduced turbulence and provides



efficient surface drainage for situations requiring a low to medium flow capacity - even when the gradient to an outfall point is minimal.

Inlet apertures are also set at 500mm intervals, eliminating ponding, and significantly reducing running or fast-flowing water on the carriageway.

FIND OUT MORE

For more information on effective and economical water management solutions, talk to your local Keyline specialists.



NEW ONE IN SUBTERRA FAMILY

Polypipe Civils & Green Urbanisation has added to its existing range of SubTerra access chamber solutions with the new SubTerra One.

The SubTerra One chamber system comprises of singular, interlocking, stackable ring sections that form structural

access chambers for inspection and maintenance. All sizes are available as individual ring sections or supplied pre-assembled as complete chambers.

When combined with Polypipe's cable protection portfolio, cable management ancillaries and range of covers

and frames, it provides a complete, optimised cable management solution.

To discover more about the SubTerra range of access chambers, please speak to our technical teams in your local Keyline branch today.



PAM PREASSEMBLY SAVES 60% TIME

With PAM pre-assembled solutions, you can save up to 60% of time spent on site - not only saving you time but reducing labour costs.

They will design a stack bespoke to your project, which will be assembled, air-tested, and inspected in PAM's Telford foundry.

Keyline will then plan the delivery of your stacks around your project's schedule to ensure you have everything you need, exactly when you need it.

Stacks come in purpose-made stillage designed for one-person handling, keeping them secure, providing robust storage and ease of movement around the site.

Cast iron will give you an element of flexibility on-site which can't be achieved from any other material, as PAM cast iron pipes are connected using couplings that can be adjusted allowing for onsite variances and retrospective changes to the system.

Not only will this bespoke design minimise wastage, but PAM systems are made of 99% recycled material and are 100% recyclable without degrading cast irons' robust properties - helping lower your project's impact on the environment.

For more information about the benefits of pre-assembled systems for your project, talk to your local Keyline branch.



FP MCCANN ON THE ROAD TO NET ZERO



WHAT DO YOU KNOW ABOUT WATER NEUTRALITY?



FP McCann continues to replace its fleet of diesel fuel vehicles with more environmentally friendly, low-polluting electric and gas powered vehicles as part of its ongoing sustainability strategy to achieve net zero.

They've recently purchased electric forklift trucks for their Byley depot in Cheshire and for the Knockloughrim facility in Magherafelt, as well as gas forklift trucks for both its Weston Underwood manufacturing facility in Derbyshire and Cadeby site in Warwickshire.



As well as significantly reduced running costs, LPG produces up to 45% less CO2 than diesel. The electric truck omits zero emissions and noise pollution is significantly lower. Electric trucks also have fewer moving parts that can break or get damaged, reducing downtime and maintenance costs.

Water neutrality is a new concept for planned developments that aims to enhance water management and improve the proficiency of water supply systems.

The water footprint for a community must be the same after a new development has occurred.

That means the water-neutral construction of any development should not increase the already existing water demands of an area and will have a net zero impact on the main water supply where the project is taking place.

What is 'Water Neutrality' in new construction developments in the UK

Posted by Callum Vallance-Poole, on September 25, 2022.



For advice on how to achieve water neutrality through rainwater harvesting, talk to our teams in branch about our extensive range of Graf rainwater systems.

WILDLIFE-FRIENDLY HIGHWAY DESIGN

Want to know how to create a Super Amphibian Highway or safe badger road crossing?

Growing transport infrastructures contribute to the loss of natural habitats. Mammals and amphibians are killed on roads in search of their natural areas to feed and breed. The UK has lost more wildlife and wild spaces due to human activity than any other G7 country, according to a 2021 Royal Society for the Protection of Birds (RSPB) report.

The construction industry can play its part in lessening the impact of habitat destruction by making wildlife-friendly elements integral to highway designs.



ACO DESIGN GUIDANCE AND SOLUTIONS

ACO offer a range of integrated solutions to ensure wildlife is directed away from danger and ensure that habitats remain connected.

What a wildlife-friendly highways scheme can do:

Support animal migration: establish the migration patterns of each species to find out how they will potentially

come into contact with the proposed road network.

Use less harmful materials: Some materials are harmful to particular species. For example, surface residues on standard concrete can be fatal to amphibians and so polymer concrete material is an alternative.

Connect habitats: A variety of solutions can be installed to guide animals to safety. These include guide walls and crossing road tunnels to prevent populations being isolated and allow the movement of animals of various sizes to cross the road safely.

Provide wildlife-friendly road kerbs and gullies: Amphibians typically follow the side of the kerb along the road, and this unfortunately can direct them straight into a traditional roadside gully pot.

Wildlife kerbs with a recess can help prevent deaths. Escape ladders or mesh can also be installed within a gully to allow any trapped animals to climb out.

Construction areas: You may also consider temporary fencing around construction areas to prevent animals coming onto the site. This is vital during breeding and spawning times.

Use the link above for a free and without obligation design service and advice on the selecting the correct wildlife solutions for your project.

ACO's Specialist Design and Technical Application Engineer, Terry Wilkinson offers lunchtime CPD sessions on 'Super Amphibian Highways' or 'Managing Highways Surface Water'. To book please contact twilkinson@aco.co.uk.

FIRST-TIME EXHIBITORS AT HIGHWAYS UK!

Our Nationals Team recently attended the Highways UK event at the NEC in Birmingham, where we had the opportunity to introduce our new technical team and network with a vast number of suppliers and customers attending across the two day period.

The event hosts over 200 exhibitors and brings together the people responsible for planning, developing, managing, maintaining, and

future-proofing the nation's road networks. There were a variety of speakers touching on important topics such as sustainability, innovation, social value, and safety.

George Woollard, Keyline's technical Director, said, "It was fantastic to meet so many familiar faces and to make so many new connections. We were completely blown away with the reception we received and were far busier than we could have expected."



KEYLINE LEEDS HELPS OUT DIY SOS



Keyline Leeds were delighted to have been part of a recent BBC DIY SOS project supporting 35-year old charity the Getaway Girls. In one of their biggest

challenges to date, DIY SOS built a brand new home for the Leeds based Children In Need funded project. What's more they did it ground-up in just nine days!

The new building will provide a much-needed safe space for vulnerable girls and young women in Leeds. Facilities include an office, creche, activity space, music studio and counselling rooms.

As well as providing products from our branch, Branch Manager Richard Tinson attended site meetings to confirm what was required and has coordinated suppliers

and customers to support the project by supplying products and labour.

He explained: "We got a flyer through asking whether we might support the Big Build and we jumped at the chance - one of our Keyline values is We Care and we were proud to be able to support such a great charity. As a group, our purpose is to help build better communities to enrich lives."



A ROUND UP FROM GROUND UP: CELEBRATING 2022 AS THE UK'S LEADING CIVIL SPECIALISTS

The Ground Up team would like to sign off this 10th edition with season's greetings to all our customers and suppliers - together we're making a difference to UK construction.

It's been quite a year!

CELEBRATING INNOVATION

It was great to get together with our major suppliers at our annual May Conference - quality face to face time to talk products and development and just get to know each other!

We'd like to give a special shout out to all our innovative suppliers setting the bar even higher than ever this year with new ground-breaking sustainable products, changing the way we do things in the civils industry for the good. And we've scaled up our HVO fleet too!

TALENTED NEW TEAMS

At the start of the year we appointed a raft of talented colleagues with new roles to drive our technical expertise and develop our regional and national sales teams.

We opened a new branch in Birmingham to better serve our customers civils needs regionally.

We embarked on a UK-wide Apprentice Roadshow, and we've made strides to support our mental health as well as taking time to share our diversity. Across the network, knowing we're better together, we have taken time to support Women in Construction, Pride and Black History Month.

CARING ABOUT COMMUNITY

We pulled out the stops for our charity partner Prostate Cancer UK in July with a massive fundraiser event, Keyline Come Dancing, while colleagues across the network have thrown themselves into a variety of sponsored events throughout the year.

Holding the memory of Maddie Rose Hollamby close to our hearts, we raised funds for the Construction Youth Trust's Maddie Rose Campaign, notably an epic Three Peaks Challenge.

Wishing you all a busy, successful and exciting 2023

The Keyline Ground Up team



Here are our opening times this Christmas and new year, check with your local branch for specific opening hours.

*Some branches will be shut on this day, please check directly with individual branches.

