Keyline CIVILS SPECIALIST | BREAKING NEW GROUND

GROUND UP

THE LATEST NEWS FROM YOUR LEADING CIVILS PARTNER

ISSUE 21 DECEMBER 2024

SUSTAINABILITY
FP McCann's first cement-free headwall has been installed, supplied by Keyline Braintree.

PRODUCT SPOTLIGHT
Polypipe Building Products' new Drainage Combination: Polycore Pipe and Polyrib Fittings.

KEYLINE NEWS
Exhibiting at Highways UK and conversations around future-proofing our road networks.

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GET A QUOTE

FP MCCANN'S FIRST CEMENT-FREE HEADWALL HAS BEEN INSTALLED AT ELSENHAM PARK HOUSING DEVELOPMENT IN HERTFORDSHIRE IN A PROJECT THAT WAS SUPPLIED BY KEYLINE BRAINTREE

FP McCann has manufactured a cement-free headwall using Earth-Friendly Concrete (EFC) at its Knockloughrim Precast Depot in Northern Ireland. It has been installed in partnership with MACL Ltd at Elsenham Park Housing Development in Bishops Stortford, near Essex.

FP McCann's technical team has worked alongside EFC to replace 100% of the cement in the structure with EFC's binder (comprising activators and supplementary cementitious materials). The work involved adapting an existing high-workability mix design and maintaining a high-quality surface finish while significantly reducing the energy associated with mechanical compaction.

Bloor Homes is building the Elsenham Park development, and MACL Ltd is the leading infrastructure contractor on the project. FP McCann discussed the potential for trialling the new headwall with MACL Ltd. earlier this year. After discussions with the client and the adopting water authority, they were keen to implement this new technology on the project.

Chris Wheelwright, Works and Infrastructure Manager, MACL Ltd, said: "We were approached by FP McCann to have the opportunity to trial a cement free headwall in early 2024. Knowing how groundbreaking this technology/science is we of course wanted to be part of a trial of this nature.

When we presented the opportunity to our client Bloor Homes along with the adopting water authority, Independent Water Networks Limited, they too were keen to be involved and the Elsenham Park development was the ideal place to do this. The headwall was installed on-site on the 12th of September, and we look forward to monitoring its performance and how it integrates with the finished landscaping further down the line."

Cement can contribute upwards of 80% of the carbon footprint of plain concrete, but another significant contributor to modern construction is steel reinforcement. For this reason, in addition to introducing an EFC binder, FP McCann replaced traditional steel mesh reinforcement with a synthetic fibre alternative, added during the batching process, and evenly distributed throughout the mix. This combination further reduces the carbon footprint of the products with an added durability benefit by eliminating the risk of steel corrosion due to aggressive environmental conditions, increasing the structure's service life.

The trials are part of an ongoing initiative at FP McCann to integrate sustainable precast manufacturing solutions. A spokesperson for the company stated, 'We are exploring a wide range of options, including using alternative binders and concrete-making materials, increasing the use of renewable energy sources, optimising structural designs, reducing factory waste, and reusing recycled materials in our products.'

FP McCann has a wide range of concrete drainage solutions, all of which are available to purchase from your local Keyline branch. Ask in your local Keyline branch to find out more.

Branch locator

Find out more

HEIDELBERG MATERIALS' FAST-SETTING POSTFIX HAS STRENGTH IN THE BAG

Now is the time to stock up with Heidelberg Materials' PostFix and Fast Set High Strength PostFix concrete mixes for fixing posts in the ground.

Suitable for all types of wood, metal or concrete posts, both products are quick and ready to use – just add water. One bag makes enough concrete for one post.

"Demand peaks during Autumn/Winter as repairs, particularly to fencing, increase," said Jack Vincent, National Account Manager at Heidelberg Materials.

"The products contain lower carbon cement* as well as aggregates that provide good initial support when placing the post. Fast Set PostFix also sets in under five minutes and has 25N strength when fully cured, making it ideal for heavyweight industrial posts."

PostFix and Fast Set High Strength PostFix are among Heidelberg Materials' core lines, which can be supplied as part of a mixed product delivery, helping minimise vehicle miles – part of the company's commitment to reducing CO^2 emissions.

*Cement content is lower carbon than typical CEM I cement due to the cement containing extra limestone as clinker replacement.

To find out more about Heidelberg Materials, ask in your local Keyline branch.

Branch locator | Find out more

NAYLOR EXTENDS DUCTING RANGE

Naylor has extended its high performance ducting range with the launch of new uPVC Class 1 and Class 2 ducting systems designed for the power market. The new uPVC Class 1 and Class 2 ducts are the latest products to be introduced by the company which has also launched its first sewer system, MetroSewer, and MetroDrain LC, a lower carbon version of its MetroDrain system, this year.

Naylor's uPVC Class 1 and 2 Ducts are manufactured in accordance with the Energy Network Association Technical Specification 12-24 - ENATS 12-24. Naylor uPVC Class 1 duct is also manufactured to BS EN 61386-24 as required by the Highways Agency.

Combining lightweight with high strength and durability, both duct systems are designed for use in high voltage power networks including hydro, wind and solar farms. They are also suitable for use in electric vehicle (EV) charging infrastructure.

For more information about Naylor's extended ducting range, talk to the team at your local Keyline branch.

Branch locator | Find out more

PRODUCT SPOTLIGHT

POLYPIPE BUILDING PRODUCTS' NEW DRAINAGE COMBINATION: POLYCORE PIPE AND POLYRIB FITTINGS

Polycore pipe and Polyrib fittings combine to create a cost-effective drainage solution for groundworkers that is ideal for non-specification projects.

Manufactured from durable PVCu and available in terracotta brown, Polycore pipe is compatible with both the Polyrib range of ribbed underground fittings as well as standard Polypipe underground pipe and fittings, inspection chambers and accessories.

FEATURES & BENEFITS

- Quick and easy to install
- Chemically resistant
- Flexible enough to accommodate normal ground movement
- Adaptable, connect on to existing drainage systems
- Suitable for non-specification projects
- Available in 110mm & 160mm diameters
- Polyrib fittings hold BBA Certificate 89/2206
- Polycore pipe Kitemarked to BS EN 13476-2 - KM 578526

You can find Polycore and Polyrib in the following Keyline branches:

- Widnes | WA8 8XE
- Hartlepool | TS24 7LU
- Exeter | EX5 2HB
- Swansea | SA6 8HR
- Birtley | DH2 1AW
- Willesden | NW10 6RB

For more information, talk to our expert teams in branch.

Branch locator | Find out more

STORMFORCE – THE END-TO-END SURFACE WATER MANAGEMENT SOLUTION

From consultation and design to manufacture, supply, installation and warranty, StormForce is the single-source solution to surface water management, delivered by trained experts in soakaway and attenuation tank planning and construction.

Armed with the next generation of AquaCell geocellular units, StormForce can deliver faster builds, reduced risk, greater sustainability and total compliance.

With one manufacturer, one contract and one expert team, StormForce delivers to Wavin's renowned standards on every project.

You can have total confidence in the quality of every contract – underpinned by BBA approved products and a 5-year warranty on the installation.

Speak to your local Keyline branch today.

Branch locator | Find out more

BREAKING NEW GROUND WITH BIG CONVERSATIONS - OUR TECHNICAL TEAM IS HERE TO SUPPORT YOU

Think BIG with Keyline. Every project begins with a conversation, unlocking new opportunities for efficiency and innovation.

Our expert teams offer the full service of solution engineering and product consultation to identify and solve potential challenges at the earliest possible opportunity.

The most impactful conversations are those that identify better approaches and drive action. Our industry has significant opportunity for improvement... and collaboration is key.

Learn how our Technical Team can support your projects here.

Ready to start the conversation today?

Read the blog ❯ Enquire now ❯

LOOKING BACK AT HIGHWAYS UK 2024

Last month, we had the opportunity to exhibit at Highways UK, where we engaged in vital conversations around future-proofing our road networks. It was inspiring to network with industry stakeholders and showcase our innovative products as a market-leading civils merchant.

The two-day event featured insightful conferences, reminding us that we work in an exciting and forward-thinking sector.

You can find out about the key take-away points from the panel discussions in our latest blog.

Read the blog ❯

PROTECTING BRITAIN'S WATERWAYS: OBJECTIVES TO ENSURE GOOD ECOLOGICAL STATUS

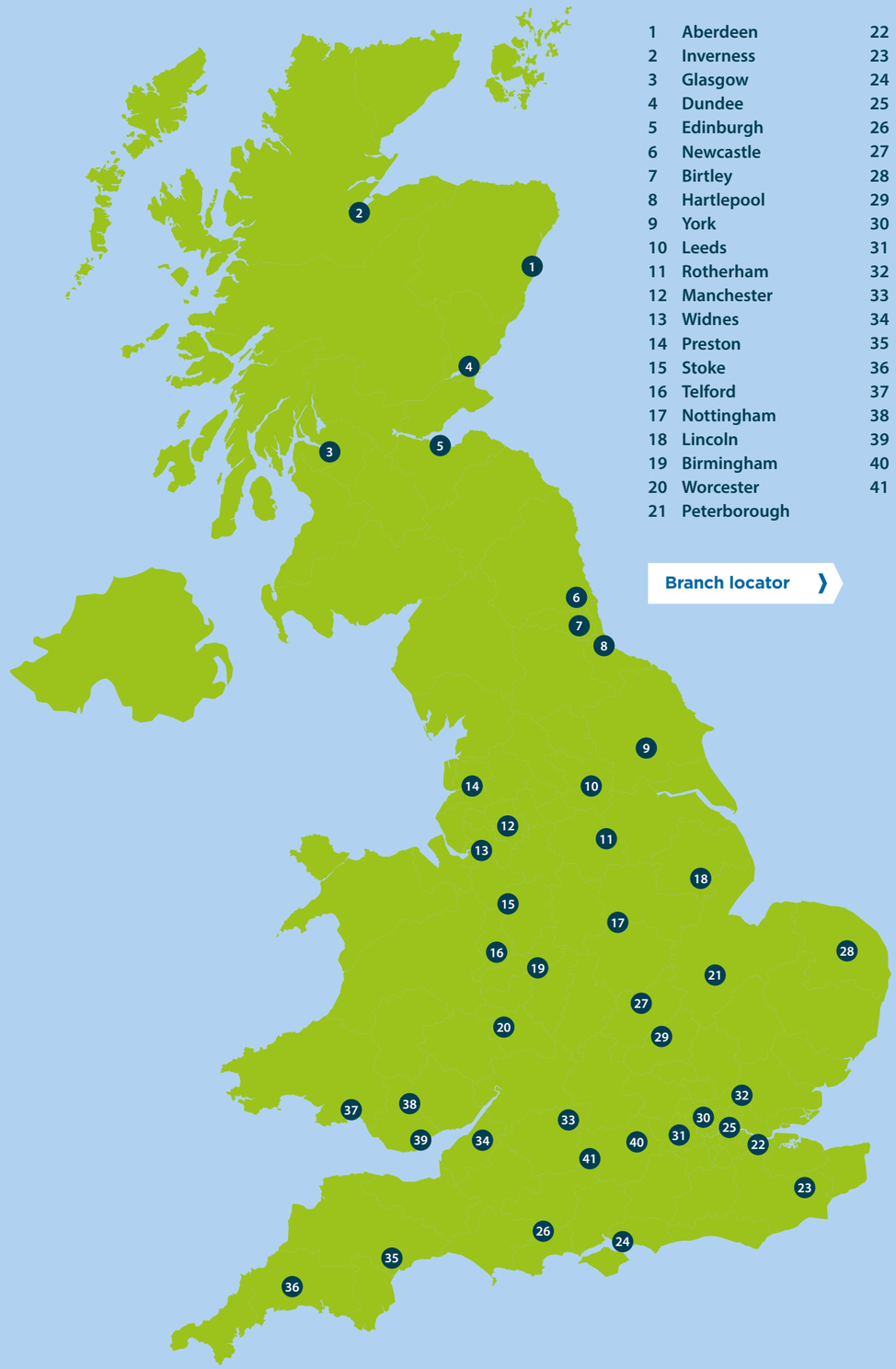
Did you know that 18% of water body failures in England are caused by road runoff pollution?

The Water Framework Directive has declared the objective to restore all surface water bodies (including rivers) to good ecological status by 2027.

And, with only 14% of rivers in England reaching this standard and none achieving good chemical status, it's time to take action to protect our waterways.

Discover how we can collectively address road runoff pollution in our detailed whitepaper.

BRANCH LOCATIONS



1 Aberdeen
2 Inverness
3 Glasgow
4 Dundee
5 Edinburgh
6 Newcastle
7 Birtley
8 Hartlepool
9 York
10 Leeds
11 Rotherham
12 Manchester
13 Widnes
14 Preston
15 Stoke
16 Telford
17 Nottingham
18 Lincoln
19 Birmingham
20 Worcester
21 Peterborough
22 Northfleet
23 Ashford
24 Portsmouth
25 Canning Town
26 Ferndown
27 Northampton
28 Norwich
29 Milton Keynes
30 Willesden
31 Hayes
32 Braintree
33 Swindon
34 Bristol
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36 Bodmin
37 Swansea
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39 Cardiff
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