



# POLYPIPE ADVANTAGE



MORE THAN FABRICATION



# Welcome to Polypipe Building Services

From high-rise residential and commercial office projects to healthcare and leisure facilities, our continuous investment allows us to develop systems that support you in creating safe and sustainable commercial buildings.

At Polypipe Building Services, we harness our ingenuity and creativity to deliver class-leading solutions and product sustainability, with optimised whole-life costs, unrivalled technical support and on-the-ground assistance.

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Polypipe has an enviable reputation amongst Specifiers, Contractors, Installers and Stockists – and it's not hard to see why. We have over 24,000 product lines, a substantial fleet of over 400 vehicles and over 3,000 employees.

Our unrivalled portfolio offers dependable, innovative solutions in climate and water management applications, enabling the movement of water, air, power, chemicals and telecoms throughout the built environment.

We operate through sector-focused businesses, ensuring that our Sales and Technical Teams are equipped to meet the specific needs of residential, civils & infrastructure, commercial and industrial projects.

We are best known for our plastic pipe solutions, but we do so much more. Our teams specialise in all areas of your project – whatever that project may be. They all work together with you to design and create a system that fits your scheme exactly, ensure your project runs smoothly, and everything meets the necessary regulations.

Whether it's a versatile system to manage water, air and energy, or an innovative 'whole building' solution compliant with the latest legislation, our considerable expertise and project knowledge can provide you with almost limitless options. Moreover, our ability to manufacture both on-site and off-site solutions means we can offer savings in terms of project times, Health and Safety considerations and overall costs.

# What is Polypipe Advantage?

More than just a fabrication service, Polypipe Advantage is an end-to-end solution for the UK commercial market.

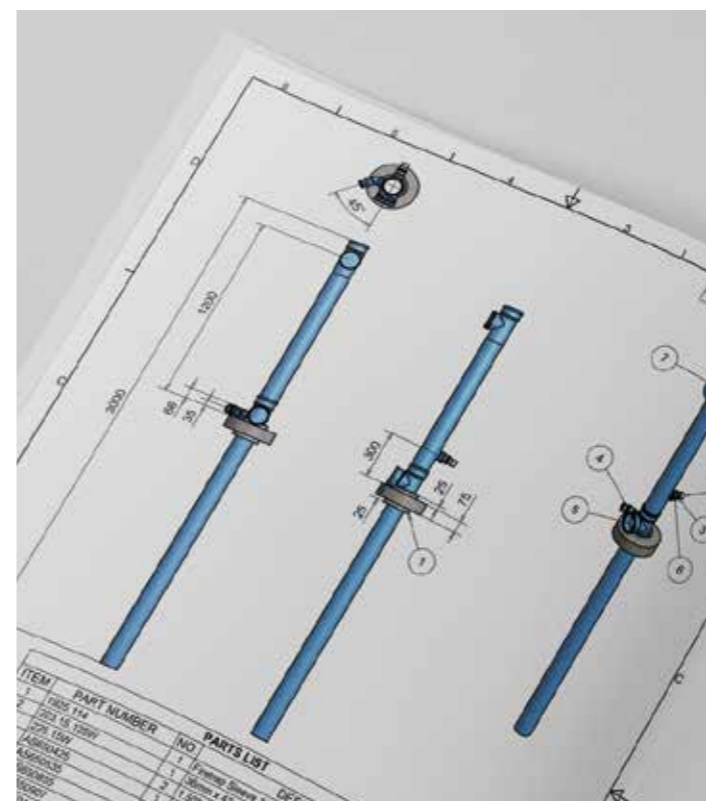
Brought to you by Polypipe Building Services, Polypipe Advantage supports you from design and planning to ordering, delivery, technical support and customer service, to make everything simple.



## The Service

### Assessment and estimation

Every good project begins with a thorough plan. The Polypipe Advantage team is on hand from the outset, to appraise your enquiry to identify any unique project requirements before creating a draft estimate.



### Design

The Polypipe Advantage team will produce detailed CAD drawings for approval, ensuring all designs are compliant to BS EN 12056 Part 2. This means you save vital planning time and won't have to compromise with inappropriate or over-engineered solutions.

### Ordering and fabrication

Once you've reviewed the design and it's finalised, our state-of-the-art fabrication and testing facility will create your system under factory-controlled conditions, ensuring only the highest quality and peace of mind for first-fix testing.

All solutions are designed and manufactured within the existing BS EN 12056 (Parts 2 and 3) and Building Regulations Part H Standards/Regulations.



### Merchant integration

You can purchase fabricated systems from our approved merchants, who will be happy to take your order, arrange the details with the Polypipe Advantage team – and deliver it in time for your next job.



### Dispatch and delivery

We know that time and scheduling are critical for any project, so we ensure your system is delivered how and when you need it – while keeping you updated along the way.

Our team of logistics experts work with your project timelines to ensure each element of your unique system arrives to site as scheduled, removing the need for on-site storage; leaving you to focus on installation.



### Sustainability

While our streamlined approach to fabrication can make your projects more efficient, it also offers wide-reaching sustainability benefits.

Because we deliver precisely what you need, and nothing more, there are no spare parts or unnecessary extras to dispose of.

We've invested heavily into sophisticated technology, ensuring our pipes are of the highest quality and are 100% recyclable at the end of life.

# From Concept to Delivery

Working closely with you and keeping you updated at every stage, the Polypipe Advantage team takes your unique project requirements into consideration. From initial design and factory-controlled fabrication to carefully scheduled delivery, we give you the Advantage.

1



## Enquiry received and draft proposal generated

Your enquiry will be addressed swiftly and forwarded to the Polypipe Advantage team for appraisal. Our technical specialists will then review the enquiry and provide a draft estimate.

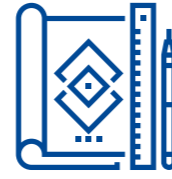
3



## Ordering and fabrication

Our state-of-the-art fabrication and testing facility will create your system under factory-controlled conditions with stringent Health & Safety policies.

2



## Estimate and designs produced for sign-off by client

The Polypipe Advantage team will then produce detailed drawings ready for client approval.

4



## Dispatch and delivery

After the system is completed, our team of logistics experts work with your project timelines to ensure each element of your unique system arrives to site as scheduled.

# Remove complexity with Polypipe Advantage

From time and cost-savings to scheduled system delivery and enhanced Health & Safety on-site, there are a number of ways that the Polypipe Advantage service can benefit your project.

There's never been a better time to experience these benefits for yourself. The construction industry is currently undergoing a period of change, brought about by technological advancements, shifts in the labour market and an increasing focus on environmental issues.

Whichever system you require to help overcome your unique challenges, we make it. Simple.

## Industry challenges

### Shortage of skilled labour

It's well-documented that the UK construction industry is experiencing a significant labour shortage. In part, this is due to the ongoing retirement of existing workers, a fact referenced in The Farmer Review of the UK Construction Labour Model, which states: "We can already see that based on the current situation of an 'ageing workforce' and the need to deliver at least 250,000 homes each year...we are a long way from having the right size of labour."<sup>1</sup>

Add in the uncertainty of Brexit, particularly the migration of EU citizens, who make up 30% of London construction workforce<sup>2</sup>, and it's easy to see that the UK construction industry faces some challenges.

In addition to the external and political factors surrounding labour supply, the industry continues to be affected by a skills gap. As noted in the Work Foundation and City & Guilds Group's 2018 joint report, 'Constructing the future': "120 construction companies report their trades people do not have the range and level of skills needed now."<sup>3</sup>

Faced with these stark numbers, it's obvious that the industry needs to adapt in order to pick up the pace. Increasingly, clients are turning to innovative manufacturers like Polypipe to offer alternative solutions that negate the labour shortage and skills gap to save both time and costs.

### Construction site challenges

Modern construction sites feature a number of challenges for Contractors, not least of which are increasing space limitations, especially in built-up urban environments.

Working with Polypipe Advantage gives you access to our team of dedicated Project Managers, who will work with you to create an exact delivery schedule. This means our manufactured drainage stacks never reach site before you need them, ensuring that they can be installed straight away, with no need for storage.

Manufactured under factory-controlled conditions, every fabricated drainage stack featuring Terrain drainage systems is delivered based on the exact specifications of the project, so there's no waste and no need for additional labour to undertake assembly – saving even more space, time and money.

### Changing CDM regulations (Construction Design Management)

The Principal Contractor has a responsibility to ensure safer designs and construction methods, and changing regulations have only increased their level of responsibility. Health & Safety, welfare of employees and installation methods are all additional aspects to consider. Polypipe Advantage reduces some of this burden as the on-site construction method is made much simpler, faster and requires less people to install the system.

## The solution

### Polypipe Advantage

Design, fabrication, delivery and support. We make it. Simple.



#### Simple on-site connections

Straightforward installation saves on labour costs.



#### Pre-air testing available

All components are tested to BS EN 12056 Part 2, reducing the time and skills required for on-site testing.

40 YEARS

#### Over 40 years' fabrication

You can expect quality from a brand you can trust.



#### Reduces on-site installation time

Installation is simple and quicker than assembling loose fittings, with all fabrication systems and components labelled to clients' requirements.



#### Reduces on-site waste

Made to measure engineered solutions means there is a reduction in wasted materials and packaging.



#### Widest portfolio of bespoke solutions

Providing customised solutions for tricky one-off projects.



#### Accreditations

Our materials are responsibly sourced and manufactured achieving BS EN ISO 9001, BS EN ISO 14001 and BES 6001.



#### Reduces on-site labour costs

Reduced installation time keeps overall project costs down, and ensures build schedules are adhered to.



#### Design support

Initial draft estimates and BIM project designs help reduce planning times. Technical phone support during the design and installation phases allows the identification of potential design issues, which can be rectified before work begins on-site, preventing expensive remedial work.



1. <http://www.constructionleadershipcouncil.co.uk/wp-content/uploads/2016/10/Farmer-Review.pdf>  
 2. ONS. Migrant labour force within the Construction Industry: June 2018  
 3. [http://www.theworkfoundation.com/wp-content/uploads/2018/09/CG\\_Constructing-the-future\\_A4\\_32pp\\_LR\\_no-crops.pdf](http://www.theworkfoundation.com/wp-content/uploads/2018/09/CG_Constructing-the-future_A4_32pp_LR_no-crops.pdf)

# Products

**Whatever your commercial project's requirements, we've drainage and water supply products to provide a solution. Setting industry benchmarks for quality, ease of installation and flexibility, they offer unrivalled product innovation.**

From the extensive Terrain PVC Soil & Waste range and the Terrain Q noise reducing system, to our chemical-resistant Terrain FUZE system, Terrain Firetrap products and MecFlow Water Supply systems, you can be confident they're engineered using high quality materials – setting new standards while meeting your project requirements.

## Terrain FUZE

A high performance, modern drainage system, Terrain FUZE is manufactured from high density polyethylene (HDPE) for strong abrasion, chemical and temperature resistance. Terrain FUZE is installed via electro or butt fusion welded joints, utilising the host material of the pipe for maximum joint integrity. And, due to its inherent material characteristics, Terrain FUZE is suited to fabrication, offering a light-in-weight, easy-to-install drainage solution.



## Terrain PVC Soil & Waste

Pioneered over 50 years ago, Terrain PVC Soil and Waste pipe systems continue to be at the forefront of the development of drainage systems today. UK-manufactured and fully accredited, the range of solvent-weld and push-fit solutions offer unrivalled installation options to match any project, are light-in-weight and easy to handle, and are fully adaptable with the Terrain FUZE drainage system for maximum flexibility.



## Terrain Q

Designed to meet specific project needs, Terrain Q is a reliable alternative to other traditional noise reducing drainage systems. Its multi-layer also provides increased fire retardancy, with a fire classification of B-s1, d0\* according to EN 130501. Thanks to the push-fit jointing method, its compatibility with other systems and fittings, Terrain Q is an ideal choice for all drainage and noise reducing project requirements.

## Complementary Products

### Terrain P.A.P.A.® and Pleura Vent System

Eliminating the need for a traditional piped secondary vent system, the Terrain P.A.P.A.® (Positive Air Pressure Attenuator) and Pleura Vent System remove the need for vent penetrations in the slab, drastically reducing the requirement for vent penetrations through a building's roof. The result is easier installation and an increased usable floor area, helping to maximise a project's profitability.



### Terrain Firetraps

The Terrain Firetrap range of unique passive fire protection products is compatible with Terrain PVC Soil & Waste, Terrain FUZE and Terrain Q Systems. Offering up to two hours' fire compartmentalisation for drainage soil stacks, they're ideal for use in concrete, masonry, cross laminated timber construction (CLT) or plasterboard partitions, as well as concrete floor constructions, meeting Building Regulation requirements.

### The BES 6001 accreditation

As in most industries, there has been a real push for greater environmental consideration within the construction industry. From Architects to Contractors, Building Owners to end users, everyone wants to play their part.

Polypipe Building Services is the only plastic drainage manufacturer to hold the BES 6001 accreditation for environmentally responsible sourcing, which shows traceability throughout the supply chain. So, if you're looking for a project partner that shares your passion for more sustainable buildings, talk to Polypipe Building Services.

### Our accreditations

Polypipe Building Services is accredited to the following Quality Management Systems: BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS OHSAS 18001:2007, PAS 99:2012.

Terrain FUZE is certified to BS EN 1519/BBA, certificate 07/4479.

Terrain Soil and Waste Systems comply with the appropriate British and European Standard and, where applicable, bear the Kitemark:

- BS 4514 and BS EN 1329-1 PVCu Soil systems, 82, 100 and 160mm soil pipe and fittings
- BS EN 1566-1 PVC Waste systems 32, 40 and 50mm Waste pipes BS 5255 PVC Waste Fittings. BS 3943 Waste Traps
- EN 14680 Solvent Weld: 250 and 500ml tins

Polypipe is a member of influential bodies such as the British Plastics Federation, Construction Products Association and TEPPFA (The European Plastic Pipe and Fittings Association).

Polypipe also works with specialists such as BRE, BBA, BSI and Constructing Excellence, which enable us to have an active involvement and understanding of industry drivers. This, combined with the high calibre of our staff, enables us to provide an unrivalled level of service.



# MecFlow. The future of water supply.

## Innovation in action

### MecFlow is a simple, reliable alternative to traditional water supply systems.

It's multi-layer construction has been designed for strength, durability and achieves a fire classification rating of B-s1, d0\*; making it ideal for multi-occupancy and tall building projects.

But MecFlow isn't like usual plastic water supply systems. It features 'CLICKWELD' technology, combining all the benefits of an electrofusion weld, with clip connections, removing the need for clamping and allowing pre-assembly installation before final welding. It makes for a faster, more homogenous weld; and a fast, clean installation.

Because of its multi-layer construction, MecFlow also provides benefits that some other systems can't. Such as anti-microbial protection, reduced thermal expansion and increased mechanical resistance. It's also UV-resistant, abrasion-resistant and has a high resistance to rigorous disinfection processes.

### MecFlow Product Offering



Low noise transmission



Chemical resistance



Abrasion resistance



Anti-microbial protection



Less on-site storage



UV resistance



## Installation



### CLICKWELD technology

The unique CLICKWELD technology means no clamps are required for welding, the clips ensure a consistent weld and allow for pre-assembly before electrofusion welding for a secure, long-lasting join.



### Increased mechanical strength

Due to the addition of micro-fibres to the material formulation, the MecFlow system has improved temperature and pressure characteristics giving it excellent mechanical strength over a range of fluid temperatures.



### Maximised water quality

The system's smooth bore and excellent chemical resistance allow the quality of the water it delivers to be maintained throughout its lifecycle, without risk of degradation or contamination.



### Fast installation

With both the CLICKWELD Technology and the MecFlow system being delivered in Kits, faster installation is achieved vs traditional installation.



### Less on-site waste

Through the Polypipe Advantage service, MecFlow is delivered in Kits so you get exactly what you need, reducing packing and on-site waste. What's more, Polypipe will recycle any offcuts or end caps at the end of your project.



### Lower labour costs

With the system's fast installation method and less labour required for installation, projects benefit from a reduction in labour costs.



### MecFlow applications

- Boosted Cold Water (BCWS)
- Chilled Water (CHWS)
- Low Temperature Hot Water (LTHW)
- Domestic Hot Water (DHW)\*
- In a range of joint fittings; Tee piece, Elbow piece, Straight piece and Manifold, to configure the perfect system

\* Not suitable for recirc applications

\* Fire classification rating according to EN13501, installed according to building regulations. We recommend MecFlow be installed with our Firetrap sleeves.



## Project Case Studies

Demonstrating the advantages our innovative systems and services can bring, the following case studies detail real-world examples of clients working with Polypipe Building Services to help create efficient, safe and sustainable commercial buildings, while minimising whole-life costs and offering superior occupant comfort.

### Terrain FUZE installed throughout major central London residential project

Polypipe Building Services met challenging requirements at a mixed-use housing development in the heart of London's Docklands.

Working alongside Main Contractor Balfour Beatty Construction and M&E Contractor Briggs and Forrester MEP Ltd, Polypipe Building Services designed and delivered fabricated drainage stacks utilising its popular Terrain FUZE for the Providence Tower and Bar Building apartment buildings, which stand at 43 and 12 storeys respectively.

Terrain FUZE, our HDPE Piping System, incorporates a number of engineered fittings to aid installation and is ideally suited to off-site fabrication where repetition is prevalent, such as in high rise buildings.

**This ability to fabricate bespoke products off-site, in turn driving quick turnaround times, and the reduced labour, made Polypipe Building Services a key project partner.**

The light-in-weight nature of Terrain FUZE brought many advantages over traditional materials, not least in its manoeuvrability on site, while the use of the Polypipe Advantage service meant that the system could be installed quickly and efficiently, providing significant time and resource savings.



#### Project

Providence Tower and Bar Building

#### Client

Briggs and Forrester MEP Ltd

#### Application

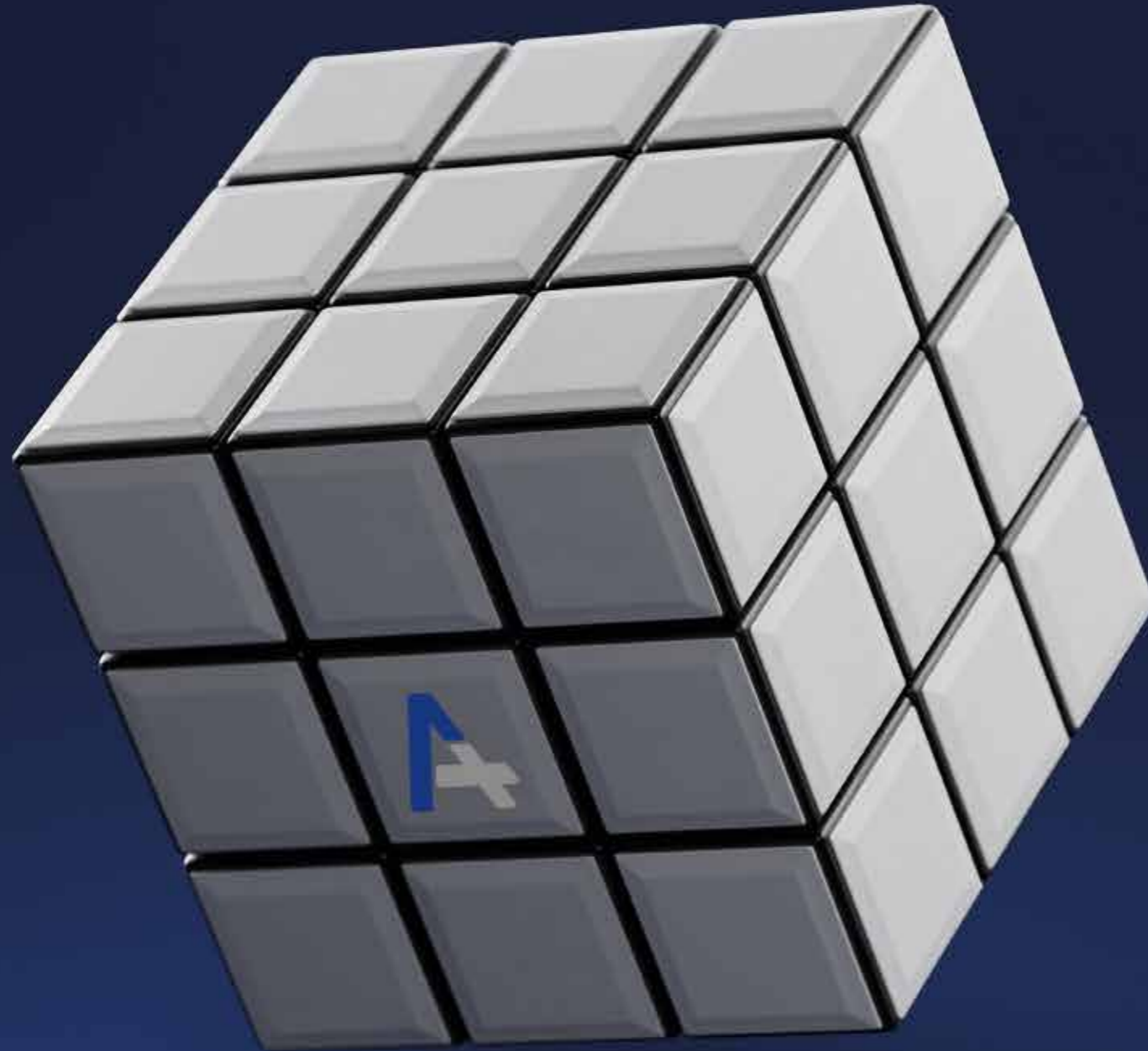
Fabricated drainage system

#### Products

Terrain FUZE

**“Whilst there were many benefits to using Terrain FUZE over alternative solutions, it was Polypipe Building Services’ ability to custom engineer low entry manifold piping that really impressed us. Being engineered specific to the project, in Polypipe’s on-site fabrication facilities, meant the turnaround time was minimal, ensuring a smooth installation.”**

*Paul Campbell, Project Director of Briggs and Forrester MEP Ltd.*



## Discover simplicity Get in Touch

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See how Polypipe Advantage can benefit your next project.

Call the Polypipe Advantage team and remove the complexity from design, estimation, fabrication, delivery and support.

Call the team now on

**01622 795 200**



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