

# Polypipe Specification



Product overview



# Welcome to Polypipe

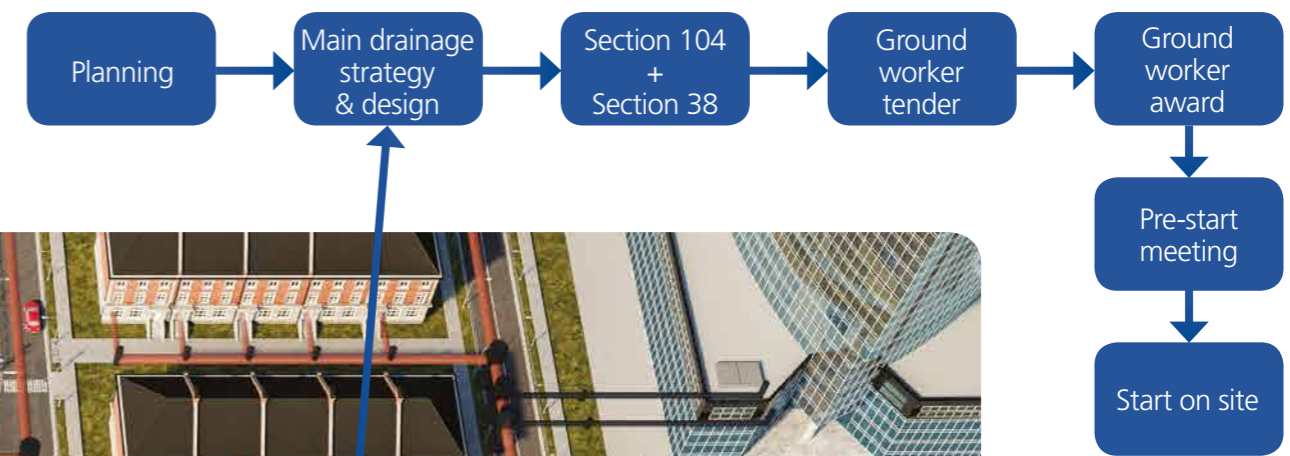
Polypipe Group provide the largest range of plastic plumbing, drainage and sewer systems in the UK, ranging from 150mm to 3000mm sewer solutions to plot drainage, soil & waste, rainwater and hot & cold plumbing. Polypipe can also supply the largest range of geocellular system solutions for deep and shallow applications.



For illustrative purposes only

Polypipe will support all aspects of your project for the supply of water management solutions ranging from early technical advice through to on-site installation assistance with contractors.

It is important that Polypipe are involved at every stage of the process so as to provide a comprehensive level of support and assistance and to ensure compliant products are utilised.



**Design stage** – To enable Polypipe to appraise each project and identify value engineered solutions and opportunities.



**Tender stage** – This creates a great all round opportunity to review the conditions of a tender and ensure that all parties are fully aware of the conditions and parameters of the successful tender.



This in turn will also save time and reduce the need for further meetings to review the compliance of the tender.

**Pre-start meeting** – This provides us with an opportunity to play a key role in ensuring accurate, on time site deliveries of all components.



- Support to designers**
- Approved Product
  - Certifications
  - Design & solution assistance
  - Standard details
  - Site specific drawings & calculations
  - Accredited CPD's

- Support to contractors**
- Engagement at tender stage to understand offer and full install costs and benefits
  - One main point of contact from tender to install
  - Take offs, BoQ's and quotations
  - Pre-start meetings
  - Delivery schedules
  - Installation guidance
  - Tool box talks

Polypipe have a team of drainage consultants on hand to assist in developing effective engineered solutions at every stage of your project.

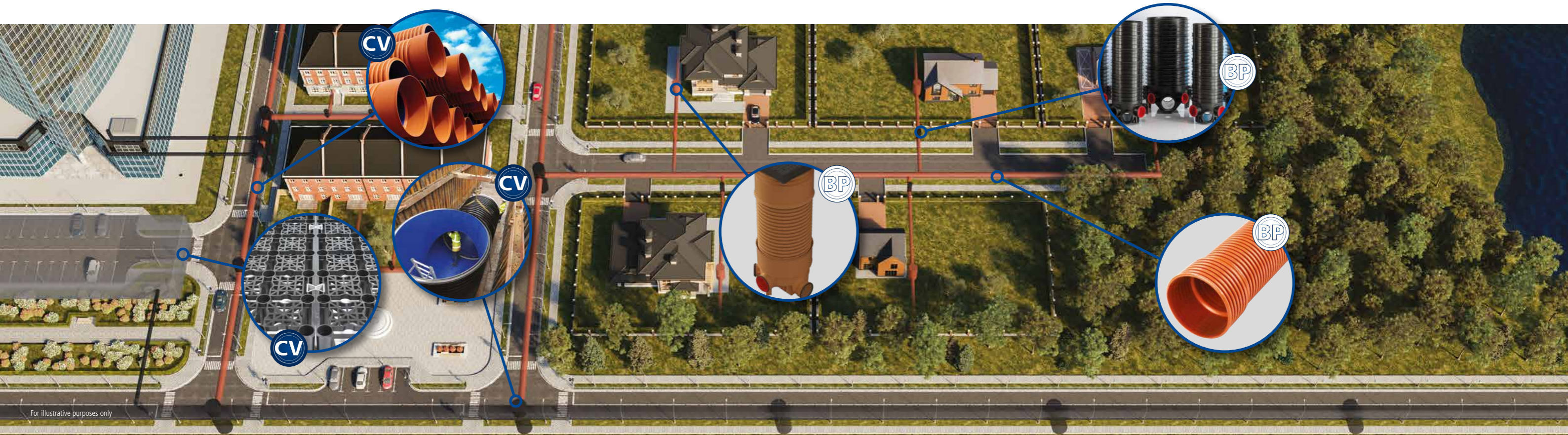


**BP** Product supplied by Polypipe Building Products: Regulated by Building Control

**CV** Product supplied by Polypipe Civils: Regulated by Highways agencies / Water companies



# Large Diameter Road and Sewer Pipelines



## Permavoid

The Permavoid system comprises of high strength modular cells suitable for sub-base replacement, plus components that incorporate silt/ oil treatment and shallow flow controls into the system.

The geocellular structures have a void ratio up to 95%, greatly enhancing the pavement's attenuation capacity and reducing aggregate requirements in hydraulic pavements. The system is suitable beneath asphaltic, block-paved or concrete pavements and for the full range of traffic conditions from domestic driveways to highways.

## Key benefits

- Designed and tested for retention, attenuation or infiltration at shallower depths
- Can be installed above a high water table
- Can remove silt and hydrocarbon deposits
- Integrates with Polystorm geocellular solutions for deeper applications
- High compressive and tensile strength under load

## Ridgistorm-XL 750-3000mm

Ridgistorm-XL is a range of large diameter polyethylene structured walled gravity sewer pipes, fittings and fabrications available in diameters 750-3000mm. The complete system includes a range of pipes, seals, pre-fabricated fittings and component chambers. Ridgistorm-XL provides robust, chemical and sewer-gas resistant sewer pipes for new and replacement gravity sewer systems.

## Key benefits

- Manufactured to meet the material requirements of BS EN 13476
- Sizes 750mm and 900mm compliant with WIS 4-35-01
- WRC approved
- Adoptable by water companies
- Manufactured using individual stiffness classes to meet your requirements
- Pipe lengths available in 1.25-12m
- Design life in excess of 100 years



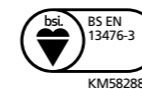
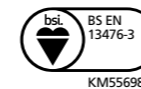
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Regulated by Building Control

## Polysewer 150-300mm / Rigisewer 400 - 900mm

A range of structured wall pipes and fittings available in diameters 150-900mm. The systems include a range of couplings, seals, bends, junctions and accessories. Both ranges provide robust sewer gas resistance for new and replacement sewer gas systems.

## Key benefits

- Fully compliant with WIS 4-35-01 and BS EN 13476-3
- BSI Kitemarked and BBA approved
- Adoptable by water companies
- Manufactured to stiffness classification SN8
- Lighter in weight for increased Health and Safety benefits
- Integral sockets for quicker installation and greater leak tightness
- Strong, flexible pipe wall withstands ground movement and differential settlement



## Polypipe Inspection Chambers

Polypipe Inspection Chambers give you complete flexibility to create a solution that meets the specification required. A range of adoptable chambers are available. Built with quality materials and engineered to last, Polypipe Inspection Chambers are pre-benched and easy to cut to length without the need for special tools and equipment, making them quicker and easier to install.

## Key benefits

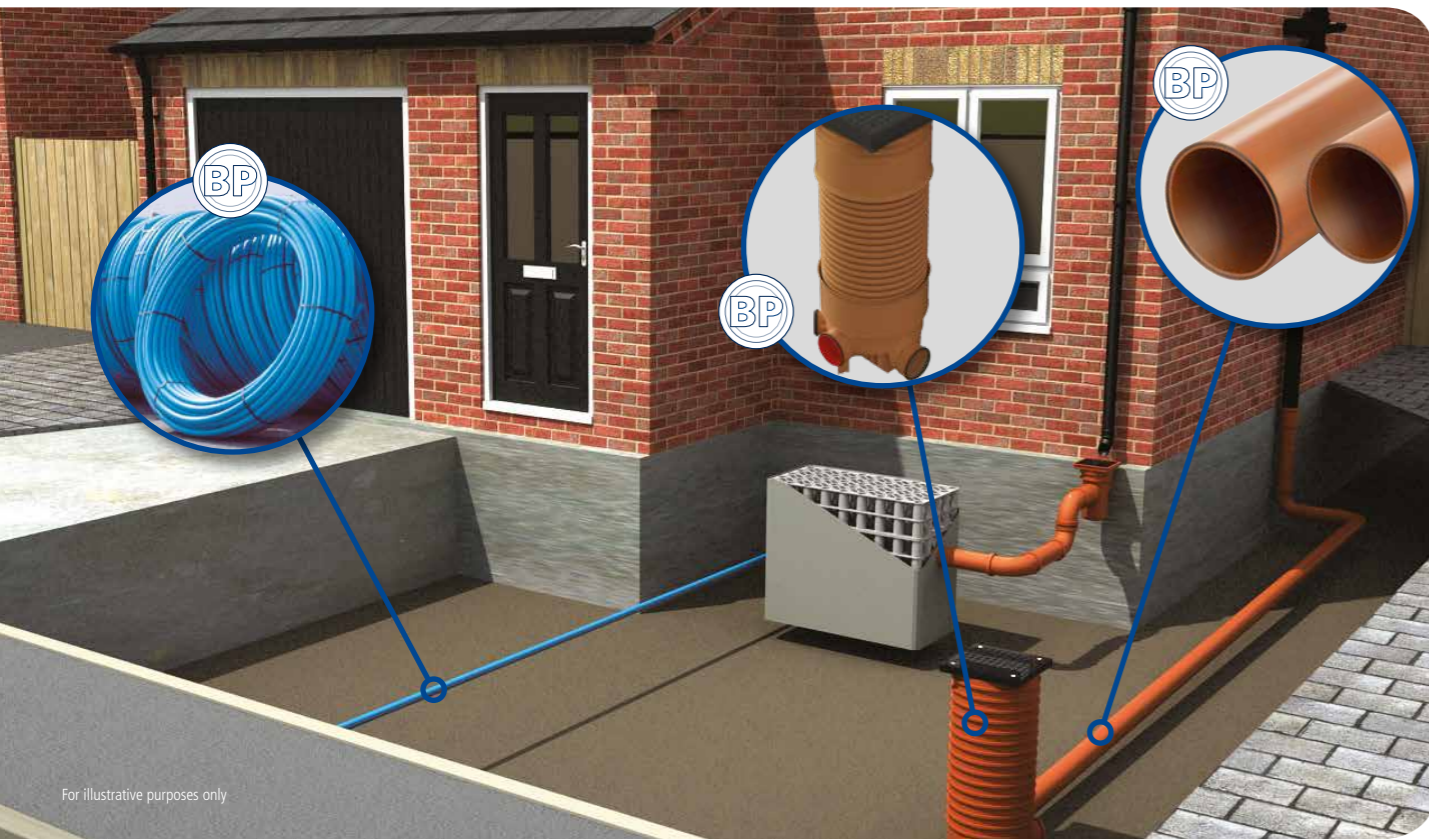
- Fully sealed to make them water tight, tamper proof and low maintenance
- Lighter in weight and strong for improved Health and Safety, handling and installation. Kitemarked to BS EN 13598-2 or BS 7158 or BBA approved
- Available in single piece sections for segmented construction for easy installation and reduced product waste
- Highly versatile and compatible with EN 1401 and Polysewer products



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# Plot products



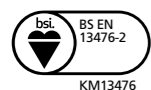
For illustrative purposes only

## Underground Pipe (MLRC)

Our new Sustainable Multi Layer Pipe (MLRC) is available in both 110mm and 160mm diameters. A fully adoptable solution, this sustainable product allows customers to comply with environmental policy and reduce their carbon footprint.

### Key benefits

- Compliant to meet Sewers for Adoption and Sewers for Scotland regulations
- Certification to stiffness class SN8
- BSI Kitemarked to BS EN 13476-2
- Improved environmental credentials to comply with the latest environmental policy
- Fully compatible with existing underground drainage in the market



KM13476



Product supplied by Polypipe Civils:  
Regulated by Highways agencies / Water companies

## Demarcation and Inspection Chambers

Our comprehensive range of inspection chambers gives you options for every non-adoptable and adoptable application. In some cases, one project may use a mixture of both solutions. To get things right from the start, our specialist consultants are happy to help you plan and deploy a solution that's effective, cost-effective and compliant.

### Key benefits

- Fully sealed to make them water tight, tamper-proof and low maintenance
- Light in weight and strong for improved Health and Safety, handling and installation and certified to BS EN 13598-2 Kitemark
- Highly versatile and compatible with EN 1401 and Polysewer products



Product supplied by Polypipe Building Products:  
Regulated by Building Control

# Plot products



For illustrative purposes only

## MDPE

A robust, easy to handle polyethylene pipe suitable for potable and non potable applications. MDPE Water Service Pipe is available in two pressure variants and a choice of diameters to suit your project.

### Key benefits

- Available in 8 and 12 bar pressure variants
- 20mm, 25mm, 32mm, 40mm, 50mm and 63mm diameters, also available in mid range sizes upto 180mm (in blue only)
- Available in blue or black
- Pipe available in both coils and straight lengths

## Domestic Channel Drainage

Ideal for pedestrian, cyclist and light vehicle traffic on domestic driveways, patios and paths, the Polypipe domestic drainage channel range provides you with everything you need to remove the standing water from around your property. Sturdy and simple to fit, the system directs rain water away from the home and into drains. The systems can be installed with any type of surface including; block paver's, flagstones, tarmac and concrete

## Polystorm

The tried and tested Polystorm geocellular range is designed to provide surface water retention, surface water attenuation or surface water infiltration at a variety of depths. It is ideally suited to domestic applications and can accommodate a wide range of traffic loadings, from pedestrianised areas to large HGV parks.

### Key benefits

- 95% void ratio providing greater water storage capacity with reduced excavation and disposal costs
- 3D flow throughout the structure removes the need for distribution pipes
- Lightweight yet robust, affording excellent Health and Safety and installation benefits
- Load bearing capacity from 20 to 83 tonnes per square metre
- 100% recyclable at the end of its service life
- BBA approved





## Home: Soil & waste



### Soil products

Developed and manufactured with quality, innovation and longevity in mind, Polypipe Building Products' soil range is the most comprehensive and technologically advanced in the UK residential market. Take, for example our PolySoil systems. Manufactured using one-piece moulding technology, they offer improved performance and system durability. This in conjunction with our Ring Lock Seal technology, removes the risk of seal distortion and dislodgement during fitting, for straightforward, secure installation.

### Key benefits

- PolySoil one piece moulding technology
- Available with the latest Ring Lock Seal design
- Sustainable Multi-Layer Pipe with BS EN 1453 Kitemark.

### Waste products

Polypipe Building products have a comprehensive range of six waste systems. These include three solvent weld systems, ABS, MuPVC & overflow, accompanied by push fit, compression and push fit overflow products.

Our updated waste range now features two new unique technologies, both of which are offered by Polypipe for the first time in drainage and waste products in the UK. Present in our ABS, push fit & compression waste fittings and our ABS & Push fit multi-layer waste pipe, Biocote® Anti-Microbial technology kills 99.99% of all bacteria that comes into contact with either the outer or inner surface of pipes and fittings.

### Key benefits

- Protected by Biocote antimicrobial technology
- BBA & Kitemarked Systems available.
- Sustainable Multi-Layer Pipe
- Six different systems available
- Contains Biocote® antimicrobial technology to combat odours



Product supplied by Polypipe Building Products:  
Regulated by Building Control

## Home: Traps & pan connectors

### Traps

Polypipe Traps ranges provide superior flexibility and ease of installation. Our traps range includes Fit-Rite technology for extra peace of mind, and BioCote® technology; reducing mould, fungus and odours. An improved compression range and the introduction of a 50mm bath trap, makes installation in confined spaces more accessible. For added confidence, we are the only manufacturer with a Traps range that's Kitemark Accredited

### Key benefits

- Fit-Rite technology for simple fitting and removability
- New and improved finned seal for ease of installation
- The only traps range on the market to be Kitemark™ Accredited
- Contains BioCote® antimicrobial technology to combat odours
- Exclusively endorsed product by Help for Heroes\*

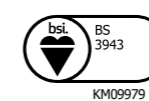
### Pan connectors

We manufacture a comprehensive range of WC pan connectors that provides a versatile, reliable solution for virtually every application.

### Key benefits

- Biocote Anti-microbial technology
- Kitemark BS 5627
- 110mm
- Solvent weld range available

Incorporating  
**FIT-RITE**  
creating the perfect fit



Product supplied by Polypipe Civils:  
Regulated by Highways agencies / Water companies



# Home: Plumbing & heating



For illustrative purposes only

## PolyFit range

**PolyFit** is our hand demountable white, push-fit plumbing system, offering maximum flexibility and adjustability.

PolyFit features a one step jointing operation for quick and easy installation. PolyFit leads the market in speed to fit. If you need to adjust a fitting joint during the installation process, PolyFit fittings can be quickly demounted by hand, or by using our release tool.

## PolyPlumb range

**PolyPlumb** is our original, tried and tested, grey plumbing system. Robust and reliable, PolyPlumb has stood the test of time.

PolyPlumb is suitable for use in most plumbing and heating installations including hot and cold water and underfloor heating applications.



 **Polypipe**  
*Underfloor Heating*  
 For more information visit:  
[www.polypipeufh.com](http://www.polypipeufh.com)

# | Rainwater Systems

A comprehensive range of fittings accompanies each rainwater profile in Polypipes unrivalled product range, to provide the specifier and installer with a complete roof drainage solution.





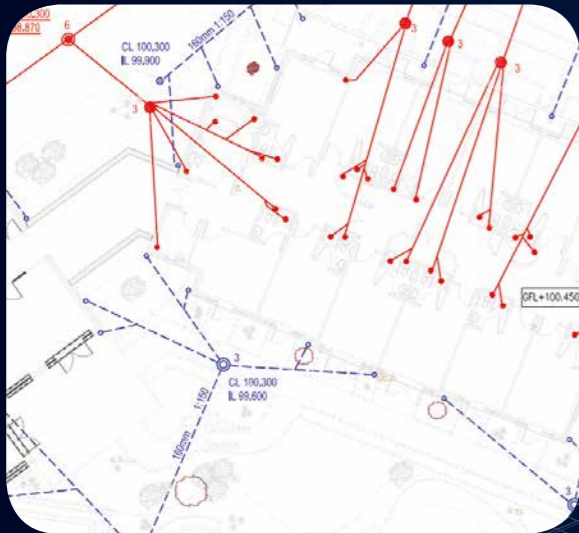
# Service and support

The Polypipe Drainage Technical Team can offer you a range of services to support your project from inception to build. A team of experts are on hand to deal with all requests, ranging from technical support, to in-depth and detailed plans for drainage solutions.

For Building Products enquiries email [polypipe.drainage@polypipe.com](mailto:polypipe.drainage@polypipe.com) or call (01709) 770000

For Civils enquiries email [civils@polypipe.com](mailto:civils@polypipe.com) or call (01509) 615100

Plot drainage design 



Underground take off (BOM) 

| DESCRIPTION   | CODE  | QTY | UNIT | LIST PRICE EACH | TOTAL LIST PRICE |
|---|-------|-----|------|-----------------|------------------|
| 110mm Sewermain (BS EN 13476-2) - PIPE  |       |     |      |                 |                  |
| 120MM/140MM PVE U/G/ROUND PIPE 1/2/7  | UG480 | 41  | 0    | 30 £            | 70.65 £          |
| 110mm Sewermain (BS EN 13476-2) - PIPE FITTINGS   |       |     |      |                 |                  |
| DESCRIPTION <th>CODE</th> <th>QTY</th> <th>UNIT</th> <th>LIST PRICE EACH</th> <th>TOTAL LIST PRICE</th> | CODE  | QTY | UNIT | LIST PRICE EACH | TOTAL LIST PRICE |
| 110MM COUPLER (D)X(D) BS4680 1/2/0  | UG401 | 14  | 1    | 158 £           | 31.21 £          |
| 110MM 87 1/2 DEG 5/5 LONG RAD BEND  | UG411 | 9   | 2    | 25.19 £         | 50.20            |
| 110MM 87 3/4 DEG 5/5 REST BEND (D)  | UG483 | 83  | 0    | 83 £            | 28.51 £          |
| 110MM 45 DEG 5/5 SHORT RAD BEND 1/2/0   | UG404 | 14  | 1    | 15 £            | 38.82 £          |
| 110MM 30D 5/5 SHORT RAD BEND 1/2/0  | UG408 | 14  | 1    | 15 £            | 39.68 £          |
| 110MM 15D 5/5 SHY RAD BEND 1/2/0  | UG410 | 14  | 0    | 14 £            | 39.68 £          |
| 110MM 13 1/4D 5/5 SHY RAD BEND 1/2/0  | UG408 | 13  | 0    | 13 £            | 21.68 £          |
| 110MM 45 DEG 1/3 EQ JUNCTION 1/3  | UG405 | 21  | 0    | 21 £            | 41.65 £          |
| RAINWATER TO DRAIN CONN. 68-110MM 1   | UG254 | 0   | 2    | 2 £             | 9.07 £           |
| 140mm Sewermain (BS EN 13476-2) - PIPE  |       |     |      |                 |                  |
| DESCRIPTION <th>CODE</th> <th>QTY</th> <th>UNIT</th> <th>LIST PRICE EACH</th> <th>TOTAL LIST PRICE</th> | CODE  | QTY | UNIT | LIST PRICE EACH | TOTAL LIST PRICE |
| 140MM X 6M PVE U/G/ROUND PIPE 1/46  | UG460 | 21  | 17   | 38 £            | 171.96 £         |
| 140mm Sewermain (BS EN 13476-2) - PIPE FITTINGS   |       |     |      |                 |                  |
| DESCRIPTION <th>CODE</th> <th>QTY</th> <th>UNIT</th> <th>LIST PRICE EACH</th> <th>TOTAL LIST PRICE</th> | CODE  | QTY | UNIT | LIST PRICE EACH | TOTAL LIST PRICE |
| 140MM COUPLER (D)X(D) BS4680 1/2/0  | UG401 | 11  | 25   | 36 £            | 20.49 £          |
| 140MM X 45 DEG 5/5 SHORT RAD BEND   | UG404 | 1   | 0    | 1 £             | 47.61 £          |
| 140MM X 30 DEG 5/5 BEND 1/2/0   | UG408 | 1   | 0    | 1 £             | 70.22 £          |
| 140MM 15 DEG 5/5 SHORT RAD BEND   | UG410 | 1   | 0    | 1 £             | 70.22 £          |
| 140MM 87 3/4 DEG 5/5 SHORT RAD BEND   | UG411 | 8   | 3    | 11 £            | 78.98 £          |
| 140MM X 30 DEG 5/5 BEND 1/3/0   | UG467 | 1   | 0    | 1 £             | 82.31 £          |
| 140MM 45 DEG 1/3 EQ JUNCTION 1/3  | UG405 | 3   | 0    | 3 £             | 140.27 £         |
| 45 DEG TEE UNITS (140X140X110MM)  | UG495 | 14  | 1    | 35 £            | 6,430.75 £       |
| 140mm Sewermain (BS EN 13476-2) - ROCCING EYES  |       |     |      |                 |                  |
| DESCRIPTION <th>CODE</th> <th>QTY</th> <th>UNIT</th> <th>LIST PRICE EACH</th> <th>TOTAL LIST PRICE</th> | CODE  | QTY | UNIT | LIST PRICE EACH | TOTAL LIST PRICE |

Rigistorm-XL design 



Rainwater calculations 

Roof Sizing Calculations

| Postcode Area | Preferred Outlet Profile | Recommended Outlet Profile |
|---------------|--------------------------|----------------------------|
| BS            | Profile                  | Profile                    |

Suggested Rainfall Intensity 2mins into a Once in 1 Year Storm = 0.038 L/s/m<sup>2</sup>

Effective Roof Area = Actual Roof Area x Roof Pitch Allowance Factor

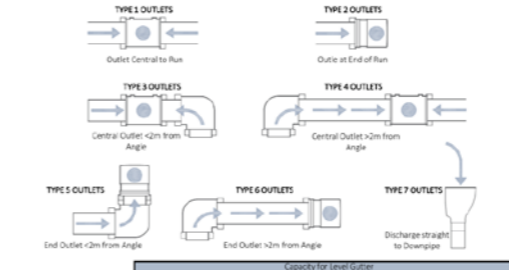
Approved Document H of the Building Regulations, Section 3, Clause 3.3

| Roof Pitch (%)     | C | 1.25 | 1.5  | 1.75 | 2.0 |
|--------------------|---|------|------|------|-----|
| Pitch Factor (1/C) | 1 | 0.8  | 0.67 | 0.57 | 0.5 |

Approved Document H of the Building Regulations, Section 3, Table 1

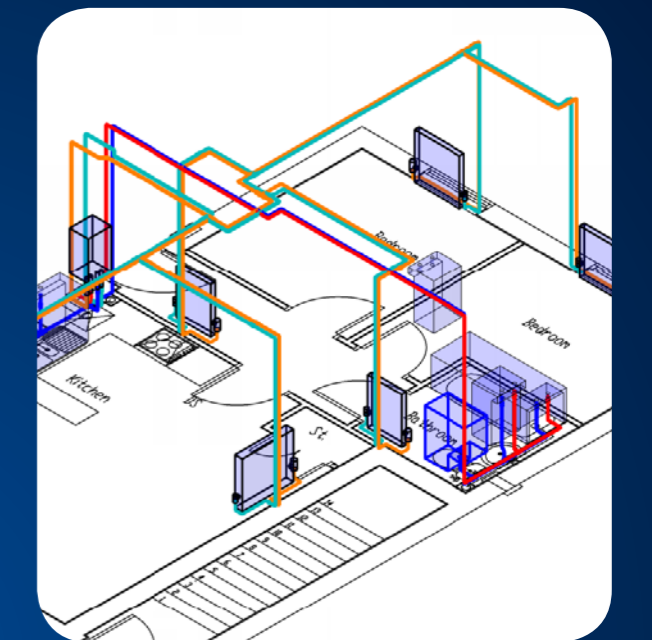
BS EN 12056-3:2000 Paragraph 4.1

Q = F x A x C (C = 1.0)



| Capacity for outlet with a 1000mm diameter | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--|--------|--------|--------|--------|--------|--------|--------|
| Plastic Half Round                         | 0.060  | 0.100  | 0.132  | 0.165  | 0.215  | 0.275  | 0.400  |
| 110mm Half Round                           | 1.813  | 0.912  | 1.050  | 1.141  | 0.811  | 0.866  | 1.400  |
| 110mm Half Round                           | 4.420  | 2.300  | 4.140  | 4.130  | 2.700  | 1.180  | 10.700 |
| Plastic Half Round                         | 1.950  | 1.900  | 3.400  | 3.400  | 1.900  | 1.700  | 4.900  |
| 110mm Square                               | 2.187  | 1.083  | 1.500  | 1.600  | 0.975  | 1.025  | 1.400  |
| Zone                                       | 1.04   | 1.01   | 1.900  | 1.800  | 1.000  | 1.000  | 1.400  |
| Roofing TYP System Plus                    | 4.200  | 2.100  | 3.300  | 3.300  | 1.900  | 1.900  | 4.200  |

Hot & cold take off (BOM) 



BIM Library  





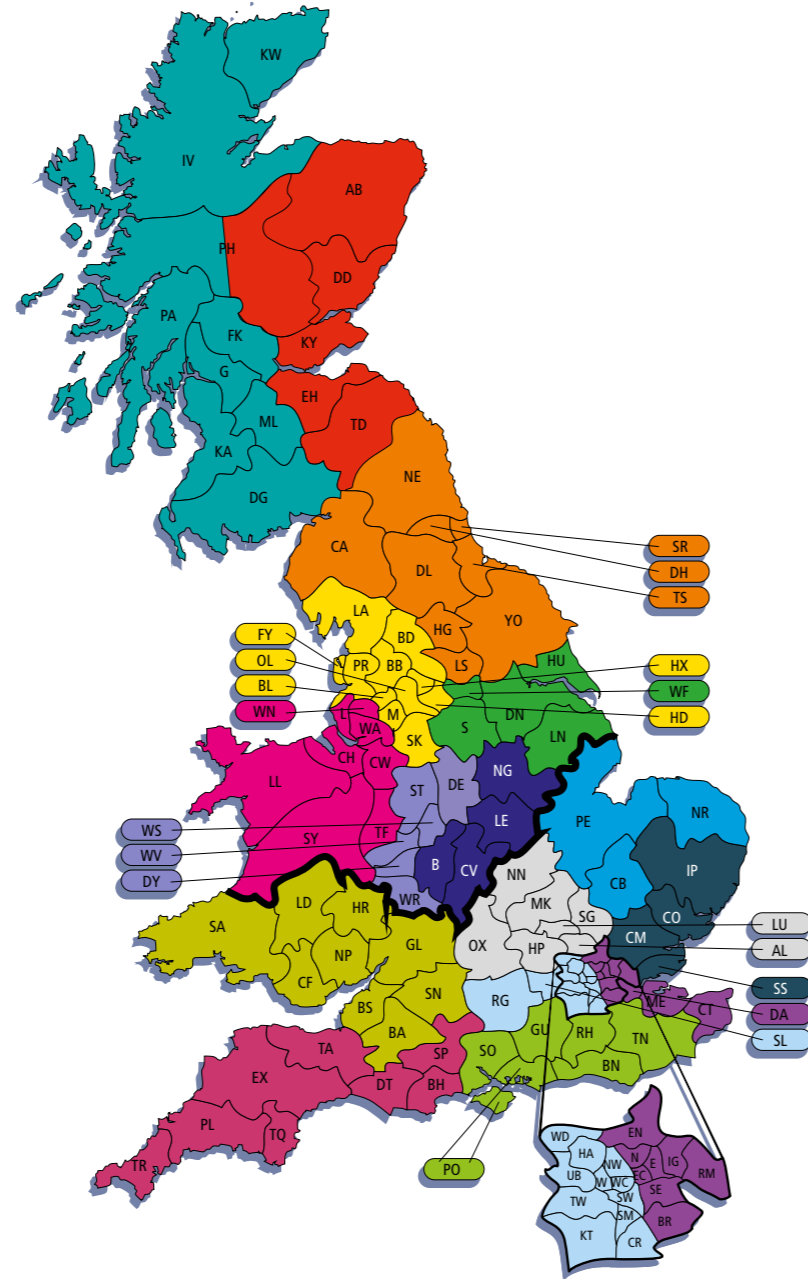
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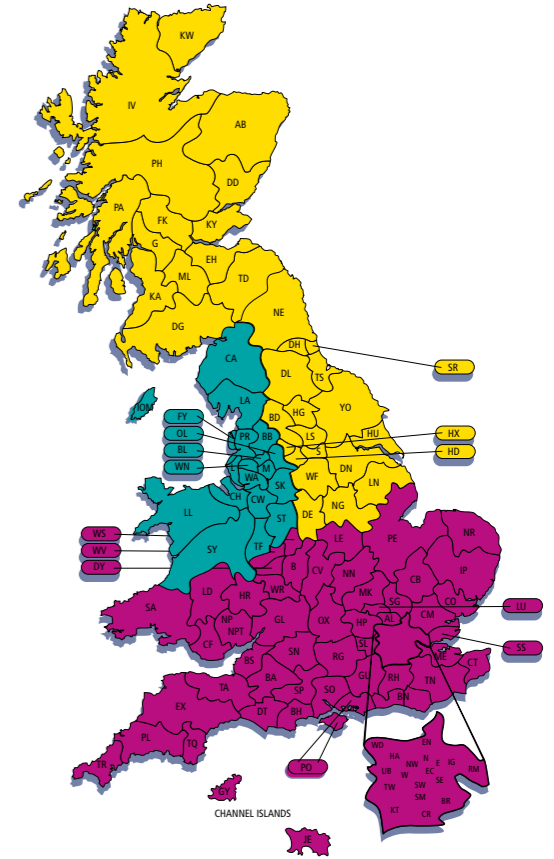
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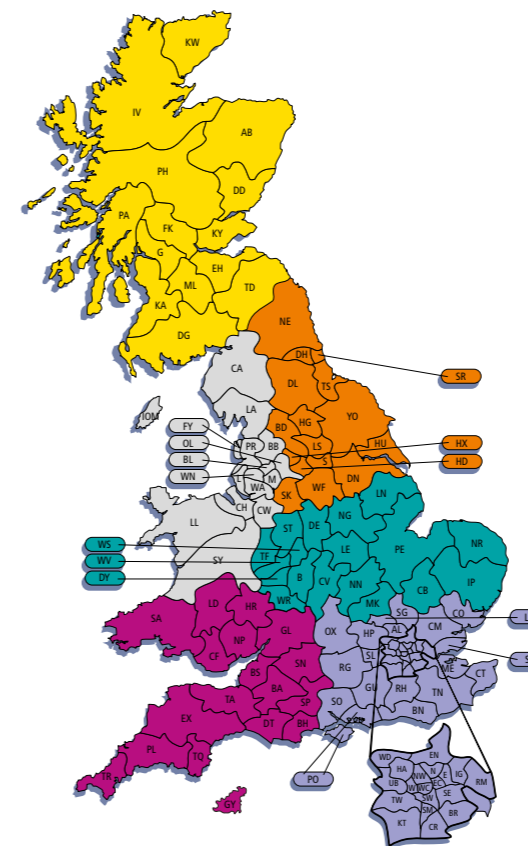
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# Product Specification

## Overview brochure



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