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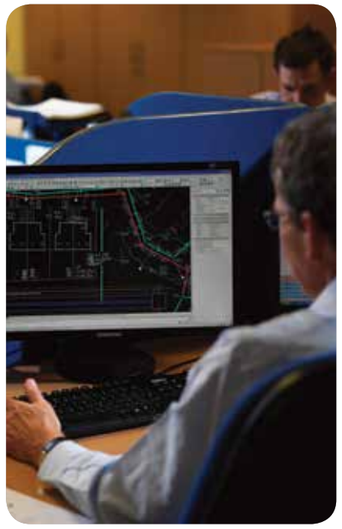
Underground Drainage

Inspection Chambers

Polypipe

A manufacturer you can trust

Polypipe Building Products is a leading UK manufacturer of drainage and plumbing products for above and below ground applications. We design, develop and supply products to the highest standards and continue to deliver on our reputation for quality, innovation and exceptional customer service. All backed by the support of our team of experts, from initial design through to installation.



Developing flexible options

Our unrivalled product portfolio comprises more than 100 systems. So whether you're a home developer or ground worker, you're sure to find the right solution for the job. Our innovation and standard of quality has earned us a place in the Top 100 Business Superbrands.

Providing intelligent engineering

The sooner we are involved in a project the more our clients can benefit from the full extent of our expertise and product offering. Working closely with you, our team of specialists will develop and deliver solutions designed to save time and cut costs, and provide the advice and support you need.

Nationwide availability

Polypipe has a national network of trusted distributors, making our products widely available throughout the UK. You can find our full range of products at all good merchants.

The sooner we are involved in a project the more our clients can benefit from the full extent of our expertise and product offering.

Why Polypipe for inspection chambers

At Polypipe, we design all of our products and systems to comply with industry regulations and standards. What's more, we are quick to respond to new regulation changes.

All of our systems meet and exceed regulatory standards and come with industry accreditations and approvals. That's why we've developed a range of products to meet the new standards within Sewers for Adoption 7th Edition (SFA7) and Building Regulations. The revised guidelines outline different standards for drains and sewers which impact the product specifications for inspection chambers.

Non-adoptable applications with drains serving individual properties are still the responsibility of each householder. However, adoptable networks with lateral drains and sewers serving more than one property and connecting to the UK public sewerage network are now the responsibility of the relevant water company. Plastic inspection chambers for adoptable scenarios must now comply with BS EN 13598.

Polypipe manufactures compliant products for both of these applications. In fact, we are the only manufacturer to provide a separate range of solutions for non-adoptable and adoptable standards.

We are the only manufacturer to provide a separate range of solutions for both non-adoptable and adoptable applications.

Stronger to last longer

Concrete piping products are fast becoming replaced with plastic substitutions in sewer applications because they are lighter, safer and easier to install – cutting project costs and minimising maintenance for the life of the product.

Light but strong

The weight of plastic pipe used in infrastructure applications is typically less than 10 percent of its concrete equivalent. As a result, they are quicker and easier to install and often require less plant hire which can provide significant cost savings. Being light in weight also reduces Health and Safety risks from handling and storage through to installation.

Flexible for a better fit

Our piping is manufactured from plastic because of its malleability. The flexibility of plastic not only allows pipes to fit into the tightest of spaces, but makes them more tolerant to deformation and movement of surrounding soil than rigid concrete pipes and minimises the risk of leakage.

Built to last

Unlike many traditional pipe materials, plastic pipes don't corrode and offer excellent resistance to a range of chemicals. When installed correctly, they require little or no maintenance in normal use as they don't rust, pit or scale. Plastic pipe systems are designed to meet long-term performance requirements, ensuring complete integrity and leak-free operation.

Plastic pipes are:

- Chemically resistant
- Light in weight but strong in use
- Quick and easy to install
- Cost effective by reducing labour and heavy plant requirements
- Effective in reducing Health and Safety risks

Polypipe Inspection Chambers are fully sealed systems manufactured from virgin high performance polypropylene for enhanced durability.

Save time and cut costs

Like all Polypipe products, our new range of inspection chambers have been built with quality materials engineered to last. What's more, all of our chambers are pre-benched and easy to cut to length without the need for special tools and equipment making the chambers quicker and easier to install.

Only pay for what you need

We supply our inspection chambers pre-benched and in segmented sections, so you only pay for the size you need. It also allows site workers to construct a chamber to the required invert to cover levels rather than spending time cutting the product to size on the site. This level of flexibility can amount to significant time and cost savings.

Right product for the right application

Our new adoptable chambers, manufactured to meet SFA7 guidelines, are an addition to our existing range rather than a replacement. This means you can be sure the products you order are fit for purpose and not over specified for your project.

Polypipe Inspection Chambers are:

- 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 EN 13598-2 Kitemark
- Available in single-piece sections or segmented construction for easy installation and reduced product waste
- Highly versatile and compatible with EN 1401 and Polysewer products

You can be sure the products you order are fit for purpose and not over specified for your project.

A choice of solutions

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. But the sooner one of our specialist consultants is involved in your project, the better they can help you find the best and most cost-effective option.

SFA210, SFA238 & UDC200

Adoptable applications

According to the new SFA7 guidelines, lateral drains and sewers that serve two or more properties and connect to the UK public sewerage network are now the responsibility of the relevant water and sewerage company. Our new range of inspection chambers can be used in these scenarios.

Adoptable drainage installations down to 3m are no longer restricted to traditional concrete chambers. However, plastic inspection chambers must comply with BS EN 13598:

Part 1: For installations down to a maximum 1.2m invert depth
Part 2: For installation downs to a maximum 3m invert depth

All of Polypipe's adoptable chambers, listed here, meet these standards.

200mm Diameter Adoptable Inspection Chambers, Covers and Frames

110mm Inspection Chambers Depth should not exceed 2m.	
Side Riser (2m effective height)	SFA238
Chamber Base with 2 connections (inlet & outlet)	SFA210
Square Cover & Frame (EN124 / Class B125)	UDC200

320mm Diameter Adoptable Inspection Chambers, Covers and Frames

110mm Inspection Chambers Depth should not exceed 2m.	
Chamber Base with 2 x 45° side branch inlets (inc. 2 blanking plugs, base & 6 risers – 1010mm high)	SFA430
Chamber Base with 4 side branch inlets - 2 x 45° & 2 x 90° (inc. 3 blanking plugs, base & 6 risers – 1010mm high)	SFA530
Side Riser (135mm effective height)	SFA431
Two Riser (270mm effective height)	SFA432
Four Riser (540mm effective height)	SFA434
Seven Riser (945mm effective height)	SFA437
Riser Sealing Ring	UG388
Round Ductile Iron Cover & Polypropylene Frame BS EN 124/B125	UDC700
Round Concrete Cover & Polypropylene Frame BS EN 124/A15	UG439
Square Concrete Cover & Polypropylene Frame BS EN 124/A15	UG499

SFA430 **SFA530** **SFA440** **SFA671** **SFA670**

460mm Diameter Adoptable Inspection Chambers, Covers and Frames

110mm, 150mm & 160mm Non-Man Entry Deep Inspection Chambers. Depth should not exceed 3m.	
110mm Chamber Base with 5 inlets (inc. 3 blanking plugs, base & 4 risers -1060mm high) Suitable for Single Wall Pipes	SFA440
150mm Chamber Base with 2 x 110mm 45° inlets & 2 x 150mm 90° open inlets (inc. 2 blanking plugs, base & 4 risers -1060mm high) Suitable for Polysewer Structured Wall Pipes	SFA671
160mm Chamber Base with 2 x 110mm 45° inlets & 2 x 160mm 90° inlets (inc. 4 blanking plugs, base & 4 risers - 1060mm high) Suitable for Single Wall Pipes	SFA670
Single Riser (215mm effective height)	SFA441
Two Riser (430mm effective height)	SFA442
Four Riser (860mm effective height)	SFA444
Eight Riser (1720mm effective height)	SFA448
Riser Sealing Ring	UG488
Round Cast Iron Cover & Cast Iron Frame BS EN 124/A15	UG419
Round Cast Iron Cover & Polypropylene Frame BS EN 124/A15	UG444
Round Concrete Cover & Polypropylene Frame BS EN 124/A15	UG497
Square Ductile Iron Cover & Frame BS EN 124/B125	UG513
Restricted Access Reducer (reduces chamber opening to a maximum of 350mm to prevent man entry)	UG514
Round Ductile Iron Cover & Frame BS EN 124/B125	UDC750

Kitemark Licence No.
KM585205

A choice of solutions

UG438

UG437

UG537

Non-adoptable applications

Drains that only serve individual properties remain the responsibility of each householder. Polypipe inspection chambers to BBA approvals or BS 7158 in 320mm and 460mm diameters can continue to be used in these applications, for both shallow access and non-man entry installations.

320mm Diameter Non-Adoptable Inspection Chambers, Covers and Frames

110mm Shallow Access Chambers Depth should not exceed 600mm. Sockets include captive ring seal for chamfered pipes.	
Chamber Base with 2 x 45° side branch inlets (170mm with 2 blanking plugs)	UG437
Chamber Base with 4 side branch inlets - 2 x 45° & 2 x 90° (170mm with 3 blanking plugs)	UG537
Side Riser (135mm effective height)	UG438
Riser Sealing Ring (For Dry Fix to UG438)	UG388
Round Concrete Cover & Polypropylene Frame [A]	UG439
Round Aluminium Sealed Cover & Frame [C]	UG436
Square Concrete Cover & Polypropylene Frame [A]	UG499
Round PVC Cover and Frame [C] (Complete with seals and fixing screws)	UG501
Square PVC Cover and Frame [C] (Complete with seals and fixing screws)	UG502
Plastic Frame to Riser Fixing Kit	FRK504
Round Ductile Iron Cover & Polypropylene Frame BS EN 124/B125	UDC700
Recessed Pavior Cover Polypropylene Frame and Tray 390 x 390	URP720

UG431

UG440

UG670

460mm Diameter Non-Adoptable Inspection Chambers, Covers and Frames

110mm & 160mm Inspection Chambers Depth should not exceed 1m. Sockets include captive ring seal for chamfered pipes.	
110mm Chamber Base with 4 side branch inlets 2 x 45° & 2 x 90° (220mm with 3 blanking plugs)	UG440
160mm Chamber Base with 4 side branch inlets 2 x 110mm x 45° & 2 x 160mm x 90° (258mm with 4 blanking plugs)	UG670
Side Riser (215mm effective height)	UG431
Riser Sealing Ring (For Dry Fix to UG431)	UG488
Round Cast Iron Cover & Cast Iron Frame BS EN 124/A15	UG419
Round Cast Iron Cover & Polypropylene Frame BS EN 124/A15	UG444
Round Concrete Cover & Polypropylene Frame BS EN 124/A15	UG497
Square Polypropylene Cover and Frame [A+] (Complete with seals and fixing screws)	UG512
Round Polypropylene Screw Down Cover & Frame BS7158 [A+]	UG511
Square Ductile Iron Cover & Frame BS EN 124/B125	UG513
Plastic Frame to Riser Fixing Kit (for use with UG511)	FRK500
Plastic Frame to Riser Fixing Kit (for use with UG512)	FRK502
Spare Black Ties (30) (for FRK 500) Not suitable for Cast Iron Frames	FRK501
Key Lifting and Handle	CLH500
Round Ductile Iron Cover & Frame BS EN 124/B125	UDC750
Recessed Pavior Cover Polypropylene Frame BS729 Galvanised Steel Tray 540 x 540	URP760

A choice of solutions

ICDB1

ICDB2

ICDB3

460mm Diameter Non-Adoptable Inspection Chambers, Covers and Frames

110mm, 150mm and 160mm Non Man Entry Deep Inspection Chambers For use at depths exceeding 1m but less than 4m.	
110mm Chamber Base with 5 inlets (inc. 3 blanking plugs, base & 4 risers - 1060mm high) Suitable for Single Wall Pipes	ICDB3
150mm Chamber Base with 2 x 110mm 45° inlets & 2 x 150mm 90° open inlets (inc. 2 blanking plugs, base & 4 risers -1060mm high) Suitable for Polysewer Structured Wall Pipes	ICDB1
160mm Chamber Base with 2 x 110mm 45° inlets & 2 x 160mm 90° inlets (inc. 4 blanking plugs, base & 4 risers - 1060mm high) Suitable for Single Wall Pipes	ICDB2
Single Riser (215mm effective height)	ICDR1
Two Riser (430mm effective height)	ICDR2
Four Riser (860mm effective height)	ICDR4
Eight Riser (1720mm effective height)	ICDR8
Riser Sealing Ring	UG488
Square Cover & Frame 350mm Opening [A+] (Complete with seals and fixing screws)	ICDC1
Plastic Frame to Riser Fixing Kit - use 1 kit per cover (for use with UG512 and ICDC1)	FRK502
Riser to Riser Fixing Kit - use 1 kit per riser	FRK503
Restricted Access Reducer (reduces chamber opening to a maximum of 350mm to prevent man entry)	UG514
Round Ductile Iron Cover & Frame BS EN 124/B125	UDC750
Recessed Pavior Cover Polypropylene Frame BS729 Galvanised Steel Tray 540mm x 540mm	URP760

UG491

UG490

UG490

Rectangular Non-Adoptable Inspection Chambers, Covers and Frames

110mm Rectangular Inspection Chamber Depth should not exceed 1m. Sockets include seal for chamfered pipes. Main channel inlet & outlet are plain end and require couplers or socketed pipes.	
610 x 460mm Chamber Base with 4 side branch inlets 2 x LH & 2 x RH x 90° (330mm with 3 blanking plugs)	UG490
610 x 460mm Side Riser (180mm effective height)	UG491
610 x 460mm Steel Cover & Polypropylene Frame [A]	UG496
610 x 460mm Concrete Cover & Polypropylene Frame [A]	UG495

Loading Classification for Covers and Frames

A = Equivalent to Class A15 load category of BS EN 124: 1994 (Pedestrians & pedal cyclists only)
A+ = Tested to withstand 35kN test load (Light vehicular traffic on domestic drives)
C = Tested to withstand 10kN test load (non-vehicular traffic only)

Kitemark Licence No.
KM61546

If you are working to Sewers for Adoption 7 guidelines, Polypipe's inspection chambers, covers and frames on pages 6 and 7 are compliant. For non-adoptable applications, you can continue using the Polypipe ranges on pages 8, 9, 10 and 11.

Typical adoptable applications

The products in our new range of adoptable inspection chambers are fully sealed systems manufactured from virgin high performance polypropylene for enhanced durability.

They are available in 200mm and 320mm diameter sizes for maximum depth to invert of 2m, and 460mm for 3m depth. They are also compatible for use with 110mm/160mm EN1401 pipes and our Polysewer 150mm diameter pipes.

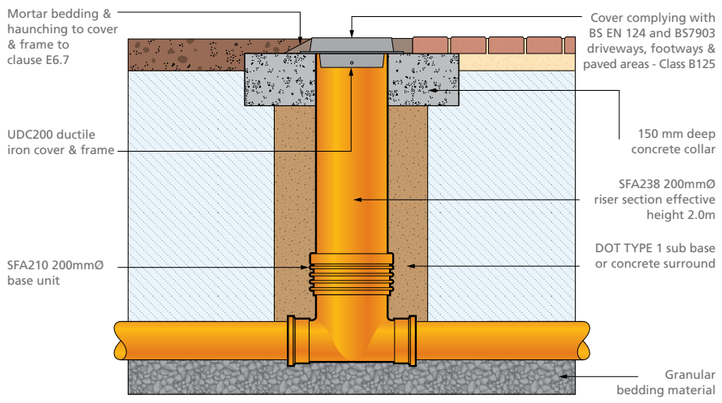
All of these new products comply with BS EN 13598 Part 2 for deep installations, and meet the elevated temperature cycling requirements to comply with Part 1.

200mm for 2m Max Depth

200mm SFA7 Inspection Chamber (Type 4)

Maximum depth from cover level to soffit of pipe 2m, non-entry. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.

SITED IN DRIVEWAYS, FOOTWAYS AND LANDSCAPED AREAS



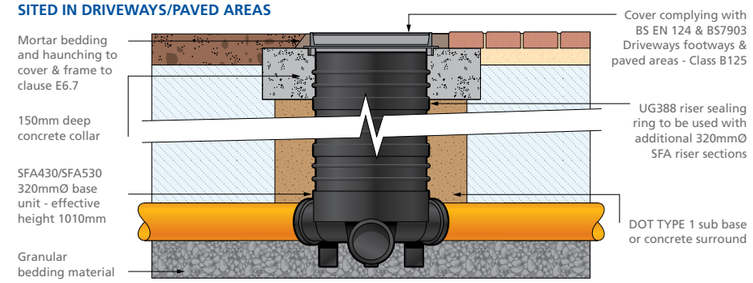
Polypipe are the experts in underground drainage so contact us to discuss the specifics of your project. Visit **www.polypipe.com/buildingproducts** or call: **01709 770000**

320mm for 2m Max Depth

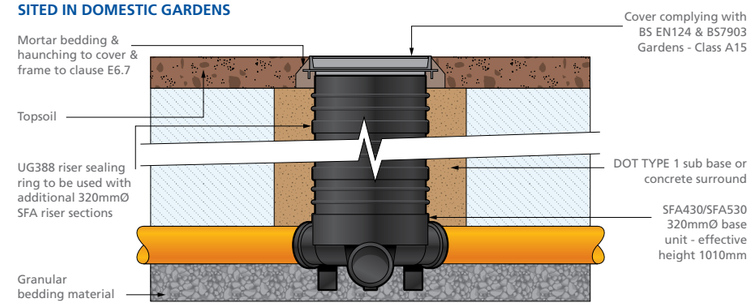
320mm SFA7 Inspection Chamber (Type 4)

Maximum depth from cover level to soffit of pipe 2m, non-entry. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.

SITED IN DRIVEWAYS/PAVED AREAS



SITED IN DOMESTIC GARDENS

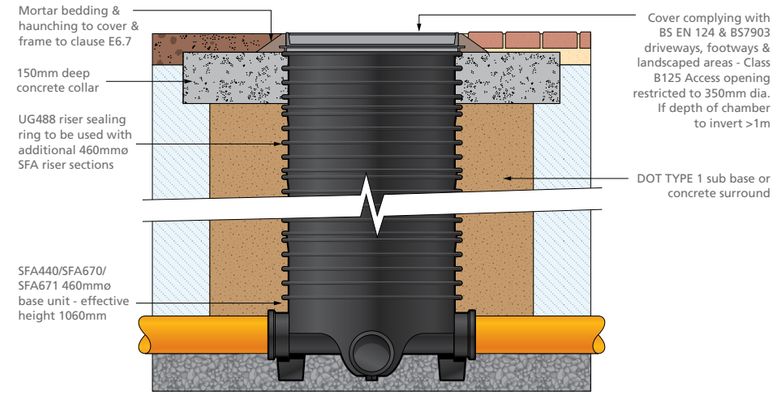


460mm for 3m Max Depth

460mm SFA7 Inspection Chamber (Type 3)

Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3m, non-entry. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.

SITED IN DOMESTIC DRIVEWAYS OR FOOTWAYS



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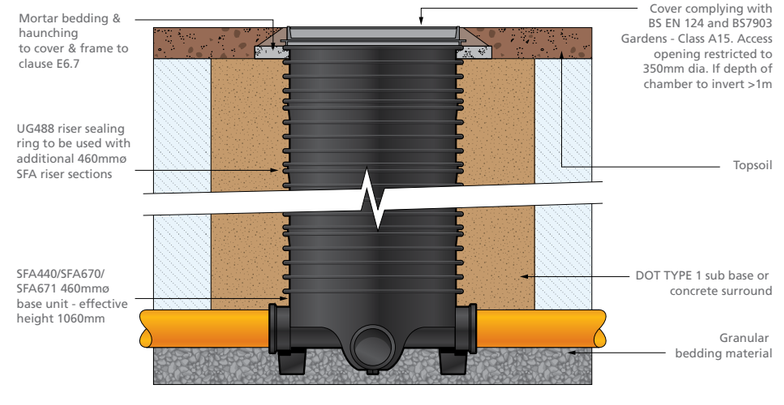
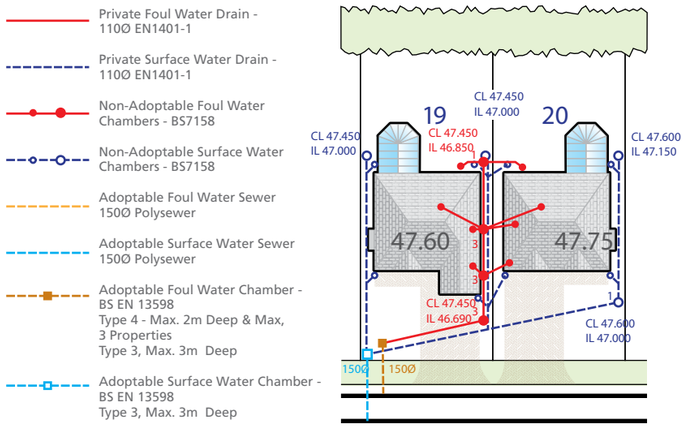


Example design layouts

The developer has a choice as to how they design when working to SFA7 and our support team can help find the best solution for each project. An example SFA7 layout can be seen below, as compared to layouts which meet previous SFA6 guidelines.

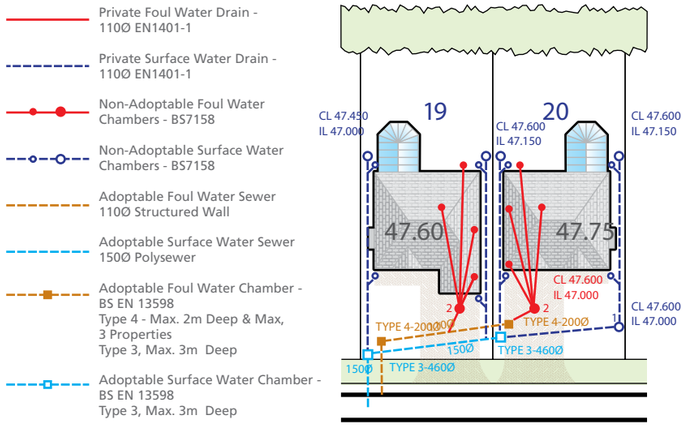
Sewers for Adoption 6

This is an example of a design layout according to earlier SFA6 regulations.



Sewers for Adoption 7

Early research suggests that this is one of the more cost-effective design layout options compliant with the new SFA7 standards.



There are many layouts which are compliant with SFA7 guidelines.
More layouts can be downloaded at www.polypipe.com

A solution to every project

Ask us for more information about the best product systems for your project. Our consultants have the technical and regulatory knowledge to help you meet the broad range of requirements throughout the project approval process.

We also offer a range of end-to-end design services, drawing on the expertise of our in-house specialists and engineers to help you specify our products to achieve the most cost effective solution.

SFA210, SFA238 & UDC200
200mm Polypipe
Inspection Chamber

SFA430 (plus side risers)
320mm Polypipe
Inspection Chamber

SFA670 (plus side risers)
460mm Polypipe
Inspection Chamber

For more information on all of our Underground Drainage products visit www.polypipe.com/buildingproducts or call: 01709 770000

Product Guide for Inspection Chambers

Polypipe Building Products

Broomhouse Lane

Edlington

Doncaster

DN12 1ES

Tel +44 (0) 1709 770000

Fax +44 (0) 1709 770001

Email residential@polypipe.com

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