FloPlast

building the future

Underground Drainage Systems

PVC-UE Roofline, Window & Cladding Systems | Rainwater Systems | Soil & Waste Systems | Underground Drainage Systems | MDPE Systems | Hot & Cold Plumbing Systems

FloPlast

HIGH QUALITY UNDERGROUND DRAINAGE SYSTEM

FloPlast are an established market leader in the manufacture and supply of Plastic Building and Plumbing systems in the UK. The Company's specialist areas are PVC-UE Roofline, Window & Cladding Systems, Rainwater Systems, Soil & Waste Systems, Hot & Cold Plumbing Systems and Underground Drainage Systems.

FloPlast Underground Drainage Systems comply where applicable with the requirements of the following British Standards.

BS EN 1401-1: 2009 PVC-U
Underground Drainage Systems (SN8)

BS EN 13476-2: 2007
Structured Wall Piping Systems (SN8)

BS4660: 2000 PVC-U
Ancillary Items (Rodding Eyes, Access fittings etc)

BS EN 124: 1994 Access Covers, Gratings and Frames.

BS EN 13598 - 1: 2010 Plastic Inspection Chamber for Drainage.

"Plastic piping systems for non-pressure underground drainage and sewerage. Unplasticised polyvinyl chloride (PVC-U). Polypropylene (PP) and Polyethylene (PE)."

Part 1: Specification for ancillary fittings including shallow inspection chambers.

For CE DOP's (Declaration of Performance), please refer to our website at www.floplast.co.uk.

Drainage Pipe has a British Standard Kitemark.

bsi. PVC-U, PP, PE Piping Drainage & Sewerage BS EN 13476-2 KITEMARK™ KM 563462

bsi. PVC-U Piping Systems Drainage & Sewerage BS EN 1401-1 KITEMARK™ KM 563461

bsi. PVC-U Piping Systems Drainage & Sewerage BS EN 1401-1 KITEMARK™ KM 544332

Standards/Quality Control

FloPlast operations embrace quality, environment and energy management systems which have been accredited by BSI to BS EN ISO 9001:2008 Certificate No. FM 501414, BS EN ISO 14001:2004 Certificate No. EMS 538445, BS EN ISO 18001:2007 Certificate No. OHS 593622 501414 and ISO 50001:2011 Certificate No. ENMS 638370.

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | ISO 50001 Energy Management | BS OHSAS 18001 Occupational Health and Safety Management

All products are subject to continuous quality control procedures and products manufactured to British Standard Specifications are marked accordingly.

BBA BBA nssPlus

Transport, Handling & Storage

FloPlast PVC-U pipes are supplied in secure bales bound with straps within timber frames, **FloPlast** recommend that the movement of bales is carried out by the fork lift or other mechanical device using webbing or rope strings.

The bales may be stacked up to a maximum of three high, providing that the timber frames are placed on each other.

Fittings are generally supplied in plastic bags and should be stored away from direct sunlight. If they have to be stored outside, the bags should be opened to prevent temperature build-up.

Application

FloPlast Underground Drainage Systems are designed for use in gravity drainage and sewerage installations at depths of up to ten metres.

Composition

All drainage pipes and the majority of fittings are manufactured from unplasticised Polyvinyl Chloride (PVC-U). Inspection chambers, 0 - 90° adjustable bend, gully traps and gully grids are manufactured from polypropylene.

Colour

Pipes and fittings are manufactured in golden brown with exceptions as indicated in the product guide.

Terms & Conditions of Sale

Goods are sold subject to our Standard Terms and Conditions of Sale, copies of which are available upon request.

FloPlast Limited reserve the right to modify or extend any product range or published information without prior notice.

ANCILLARIES

Product	Code
40ml Compressed Silicone Lubricant Spray	
	SL40
800gm Lubricant Gel	
 Water Council Approved KIWA KM 51564 BS6209	SG800

Product	Code
100gm Silicone Grease	
	SG100
125ml Solvent Cement	
 CE	SC125

Product	Code
250ml Solvent Cement	
 CE	SC250

- **FloPlast** socketed underground pipe incorporates the latest blown end technology. The easy fit rubber seal is held in place via a circular plastic insert allowing a retention of the seal in transit and a perfect connection for jointing.
- All Push-Fit underground fittings have a captive seal and snap cap which are designed to be user-friendly - no sharp edges, and with space restrictions in mind, allow for an easy fit connection. The seal is double ribbed, and the sockets incorporate a recessed area to provide space for the rubber seal to locate as the pipe is inserted, forming a high-capacity pressure point.

Manufacturers that produce to these standards: BS EN 1401:2009 / BS 4660:2000 BS 7158:2001 / BS EN 124:1994	110mm	160mm
Hepworth	✓	✓
Brett Martin	✓	✓
Osma/Wavin	✓	✓
Polypipe	✓	✓
Polypipe Terrain	✓	✓
Marley	✓	✓
Hunter	✓	✓

FloPlast Installation Videos

Our step-by-step installation videos (available online), make it clearer and easier to get to grips with the all the technical elements involved in what may be a complex process.

Visit www.floplast.co.uk and download a pdf step by step guide to help with your installation.

Product		Code
Pipe		
	Plain Ended (Bale quantity 50) 3m 6m	D043 D046
	Single Socket (Bale quantity 50) 3m 6m	D143 D146
Pipe Coupling		
	Single Socket Coupling	D124
	Double Socket Coupling Removable centre stop for use as slip coupling	D105
Single Socket Bends		
	87½° Bend (Socket/Spigot) 45° Bend (Socket/Spigot)	D161 D163
	30° Bend (Socket/Spigot) 15° Bend (Socket/Spigot)	D164 D167
Double Socket Bends		
	87½° Bend	D561
	45° Bend 30° Bend 15° Bend	D563 D564 D567
	87½° Rest Bend	D571
	87½° Settlement Rest bend	D570
	0-90° Adjustable Bend (PP-Do not solvent weld)	D560
110mm non-return valve		
	CE 110mm Non-Return Valve-Single Flap	D550
Large Radius Bends		
	87½° Plain End 45° Plain End 87½° PE with Channel Access 45° PE with Channel Access	D281 D283 D581 D583

110MM PIPE & FITTINGS BS 4660:2000, BS EN 1401-1:2009, BS EN 124:1994, BS 7158:2001



Product	Code
Equal Junctions	
 87½° Junction (Double Socket) 45° Junction (Double Socket)	D190 D210
 87½° Junction (Triple Socket) 45° Junction (Triple Socket)	D191 D211
Access Fittings	
 87½° Access Bend (Socket/spigot)	D169
 Access Pipe (Socket/spigot)	D274
 Screwed Access Cap (Spigot)	D292
 Channel Access Pipe PE 1.5m	D870
Rodding Points	
 PCV Oval Rodding Point (Spigot)	D881
 PCV Oval Rodding Point (Socketed)	D882
 PCV Square Rodding Point (Spigot)	D883
 PCV Square Rodding Point (Socketed)	D884
(45 rodding point with sealed access cover suitable for loading up to 10kN (1 tonne) where the frame of the cover is supported by a concrete plinth)	
DrainGuard	
 Fits round and square downpipe (Black)	DG1

Product	Code
Universal Traps	
 Universal Gully Trap (Socket/Spigot 45°)	D500
 Low Back 'P' Trap	D501
 Leaf/Debris Interceptor Gully (Black)	D94
 Spare Square Grid (Polypropylene)	D502
Universal Traps	
 Square Blank Cover Grid	D508
 Square Hopper Including Polypropylene Grid	D504
 Rectangle Blank Cover Grid	D507
 Rectangular Hopper (Including Polypropylene Grid)	D506

Product	Code
Bottle Gully Traps	
 Bottle Gully Circular Grid	D510
 **NEW** Bottle Gully Square Grid	D515
 Bottle Gully Rectangular Grid	D520
 Back Inlet Bottle Gully Rectangular Grid	D530
 Back Inlet Bottle Gully Circular Grid	D540
 Round Hopper and Grid (215mm diameter with height adjustment of 32mm)	D514
 **NEW** Square Hopper and Grid (216x216mm with height adjustment of 32mm)	D518
 Rectangular Hopper and Grid (295x216mm with height adjustment of 32mm)	D524
 200mm Riser	D505
Adaptors	
 110x50mm Waste Adaptor (Grey/Black/White) 110x68mm Rainwater Adaptor (Grey/Black/White)	SP95 SP96
 Universal Waste Adaptor (32/40/50mm)	D95
 Universal Rainwater Adaptor (Square/Round)	D96
 80x110mm Adaptor	D97
 160x110mm Level Invert (Socket/Spigot)	D99
 Supersleve Clay Adaptor DS (Black) Hepsleve Clay Adaptor DS (Black)	D100 D101

Features & Benefits

- Provides an efficient means of waste water drainage and foul discharge from above ground drainage systems.
- Manufactured in PVC-U to give a strong durable product, lightweight and easy to work with and suitable for high temperatures and waste discharge.
- Fittings have an aesthetic modern look, are compact in size yet remain within the British Standard specification.
- Push-Fit joint through an innovatively designed seal and snap cap system.
- Comprehensive range of fittings to suit most installations and which integrate with all FloPlast above and below ground drainage systems.
- Colours available: Terracotta.

Product	Code
Drain Connector	
 (Black/Grey only)	SP107
Connects directly into socket of a cast iron clay or plastic pipe system to provide a socket for plastic pipe.	
Flexible Couplings, Connectors and Adaptors	
 Flexi-Coupling 98mm-115mm	D102
 Flexi-Adaptor A: 98mm-115mm B: 120mm-136mm	D103
Socket Plug	
	D296

110MM PIPE & FITTINGS BS 4660:2000, BS EN 1401-1:2009, BS EN 124:1994, BS 7158:2001



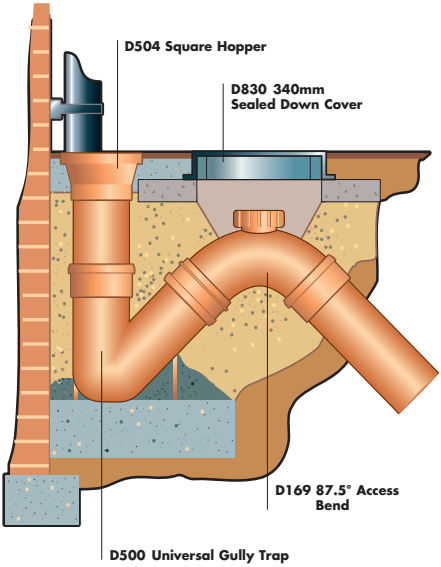
Product	Code
Large Inspection Chamber - 450mm Diameter (LIC)	
 270mm Deep Chamber Base - 5x110mm flexible inlets / Supplied with 4 socket plugs (Allows for 0-20° of movement)	D900
 270mm Deep Chamber Base - 5x110mm fixed inlets / Supplied with 4 socket plugs	D910
 235mm Extension Riser (Can be cut to size)	D915
 Riser Sealing Ring (Use with each Riser)	D935
 235mm Extension Riser and Seal (Can be cut to size)	D916
 450mm Plastic Cover & Frame (35 kN)	D930*
 450mm Plastic Cover & Frame with 350mm Restricted Access (35 kN) (For use with I.C. over 1.2mtr deep up to 3mtr)	D931*
 Cast Iron Cover & Plastic Frame (35 kN) (For replacement purposes only)	D923
 Block Paving Cover 450mm Square/Round	D933
 450mm Ductile Iron Cover/Frame (B125) Conforms to the requirements of SfA7.	D934

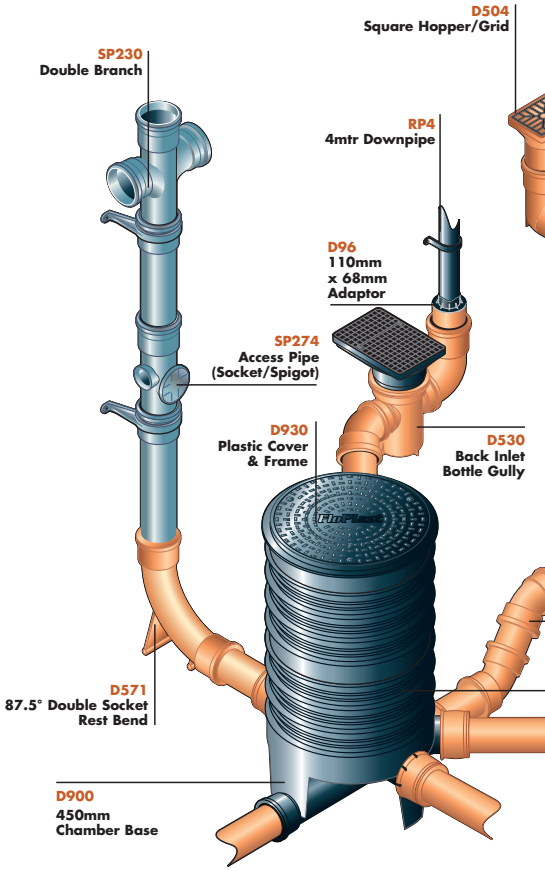
*To conform with new document H Building Regulations H2000 use D930 or D931 as required.

Product	Code
Mini Access Chamber - 300 Diameter (MAC)	
 270mm Deep Multi Inlet Chamber Base - 5x110mm flexible inlets / Supplied with 4 socket plugs (Allows for 0-20° of movement)	D800
 270mm 45° Inlet Chamber Base - 3x110mm flexible inlets / Supplied with 2 socket plugs (Allows for 0-20° of movement)	D801
 270mm 90° Inlet Chamber Base - 3x110mm flexible inlets / Supplied with 2 socket plugs (Allows for 0-20° of movement)	D802
 270mm 45° Inlet Chamber Base - 3x110mm Fixed inlets / Supplied with 2 socket plugs	D810
 100mm Chamber Riser With integral rubber ring (60mm cut down facility)	D820
 200mm Chamber Riser With integral rubber ring (60/100/150mm cut down facility)	D822
 340mm Sealed Screw Down Cover and Frame (35kN)	D830
 Block Paving Cover 300mm Square/Round	D932

Installation Guide - Universal Gully Trap with access facility

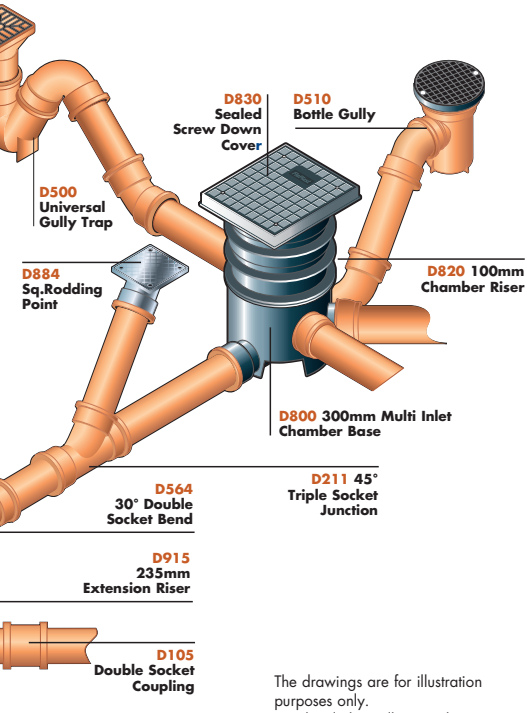
- The gully should be assembled out of the ground.
- Place the gully on a substantial base e.g. Pre-cast concrete slab, bricks etc and stabilise by concreting base up to the level where the supporting feet meet the gully body. Ensure that concrete does not enter the ring seal joint.
- Connect the Access Bend (D169) onto the 45° spigot end of the gully using FloPlast Silicone lubricant to assist with easy insertion.
- Make connection to drainage run using socketed pipe (D146).
- Backfill with suitable material to the required level.
- To complete the access installation, set in concrete an airtight 340mm Sealed PVC Cover and Frame (D830).





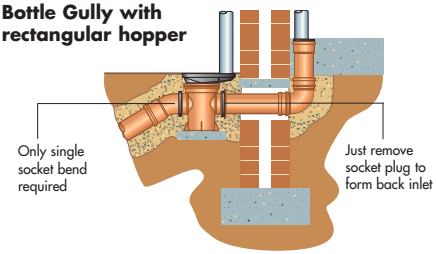
Back Inlet Bottle Gully (BIG)

- Screw down, hinged rectangular heavy duty hopper.
- Heavy duty circular hopper available (D540).
- Both hoppers allow for height adjustment of 32mm.
- Sealed dip tube easily removed for rodding purposes.
- Gully riser allows an increase of invert depth up to 200mm (D505). Maximum of one riser only.
- Back inlet socket plug easily removed. No need to drill.

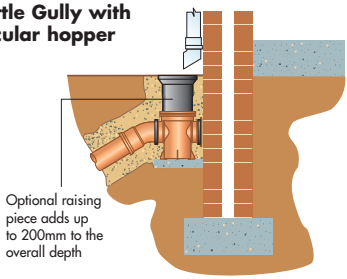


The drawings are for illustration purposes only.
For detailed installation advice please contact your local stockist.

Bottle Gully with rectangular hopper



Bottle Gully with circular hopper



FloPlast 300mm Mini Access Chamber and 450mm Large Inspection Chamber offer an alternative to traditional manholes and may be used in depths of up to 600mm for the MAC, 1200mm and 3000mm for the Large Inspection Chamber.

300mm Mini Access Chamber (MAC)

FloPlast innovative design for the MAC, brings unrivalled flexibility to the underground drainage market.

The MAC has flexible connections for all inlets allowing a 10° movement in any direction. This is of great assistance to the installer where the connecting pipes are not perfectly aligned with the MAC inlets. In many instances it will eliminate the need to install an extra bend and provide a saving on the cost of the installation.

In addition, the variety of inlet combinations available on the **FloPlast** Mini Access Chamber and the choice of two chamber risers, 100mm and 200mm, provide installers with a significant advance in the ease of which they can plan and install their drainage system. The MAC base is designed to facilitate the stacking of bases on top of one another to give a space saving storage solution for the merchant stockist.

In summary, the **FloPlast** Mini Access Chamber design and flexibility provides a practical, innovative and cost effective solution for the provision of access in a drainage system.

BS EN 13598 - 1: 2010 Plastic Inspection Chamber for drainage.

UK Patent No. GB2357127.

450mm Diameter Large Inspection Chamber (LIC)

FloPlast product innovation is again demonstrated with its 450mm Diameter Large Inspection Chamber.

To comply with the changes to Approved Document H of The Building Regulations 2000, significant research and development has gone into the design of this unique product. The chamber base incorporates five 110mm flexible inlets, which allow 10° of movement in any direction.

The plastic cover and frame can take loadings of up to a maximum of 35kN. Should the connection of D930/D931 cover and frame be required directly to the base D900/D910, then riser D915 must be used and cut to suit, by cutting just above the bottom most large flange/rib.

(Please ensure sealing rings are used in conjunction with each riser section).

FloPlast installation details are concise, however they are provided as general guidelines only.

FloPlast recommend that reference should be made to the appropriate Codes of Practice for Underground Drainage Systems.

European Standards BS EN 752: 1997 Drain and sewer systems outside buildings and BS EN 1610: 1998 Construction and testing of drains and sewers, have been introduced. These have replaced British Standards BS8301 (Code of Practice for Building Drainage).

Meets with the requirements of Sewers for Adoption - 7th Edition (SfA7), type 3 and 4 typical inspection chamber detail.

Useful Measurements for Installation of MAC & LIC

	Mac	inc' Lid
Base only	270	300
Base + one riser (100mm)	370	400
Base + one riser (200mm)	470	500
Base + (1 x 100 x 1 x 200) risers	570	600

LIC Invert Depth (mm)	270	505	740	975	1210	1445	1680	1915	2150	2385	2620	2855	3090
Number of Riser Required	Base only	1	2	3	4	5	6	7	8	9	10	11	12
Cover Required	(D930) 450mm opening up to a maximum of 1200mm					(D931) 350mm opening up to a maximum of 3000mm							

160MM PIPE & FITTINGS, PVC-U BS EN 1401-1:2009, BS EN 124:1994, BS 7158:2001



Product			Code
Pipe			
	Plain Ended (bale quantity 33)	6m	6D046
	Single Socket (bale quantity 33)	3m 6m	6D143 6D146
Pipe coupling			
	Double Socket Coupling Removable centre stop for use as slip coupling		6D105
Single socket bends			
	87½° Bend (Socket/spigot) 45° Bend (Socket/spigot)		6D161 6D163
	30° Bend (Socket/spigot) 15° Bend (Socket/spigot)		6D164 6D167
Double socket bends			
	87½° Bend		6D561
	45° Bend 30° Bend 15° Bend		6D563 6D564 6D567
Adaptors			
	160x110mm Level Invert (Socket/spigot)		D99
	Flexi-Adaptor Cast iron/160mm	CE	6D102
	Clay Adaptor A: 160mm-180mm B: 180mm-200mm	CE	6D104
Equal junctions			
	87½° Junction (Double Socket) 45° Junction (Double Socket)		6D190 6D210
	87½° Junction (Triple Socket) 45° Junction (Triple Socket)		6D191 6D211

Product		Code
160/110mm Unequal junctions		
	160x110mm 87½° Junction (Double socket)	6D198
	160x110mm 45° Junction (Double socket)	6D218
160mm Large Inspection Chamber - 450 Diameter (LIC)		
	160mm x 160mm 90° Chamber Base With two 45° 110mm Inlets	6D900
Use a proprietary adhesive such as Siroflex MS Polymer or CT1 Sealant & Construction Adhesive to seal first riser to base.		
	235mm Extension Riser (Can be cut to size)	D915
	Riser Sealing Ring (Use with each riser)	D935
	235mm Extension Riser and Seal (Can be cut to size)	D916
	450mm Plastic Cover & Frame (35 kN)	D930*
	450mm Plastic Cover & Frame With 350mm restricted access (35 kN) (For use with I.C. over 1.2mtr deep up to 3mtr)	D931*
	Cast Iron cover & Plastic Frame (35 kN)	D923

*To conform with new document H Building Regulations H2000 use D930 or D931 as required.

Trench Detail and Backfill Material
The trench should be constructed 300mm wider than the outside diameter of the pipe to be installed. Where the "as dug" material is suitable, the bottom of the trenches may be trimmed to form a pipe bed. The material can also be used as a sidefill and backfill. Imported granular backfill materials such as pea shingle, used in accordance with the recommendations of BS5955 Part 6: 1980 Appendix A, having a nominal particle size not exceeding 10mm, should be used as required up to and over the crown of the pipe. When this has been achieved the "as dug" material can be replaced into the trench. Once 300mm of material has been replaced, mechanical compaction can commence.

Testing
Testing of all drainage installations should be carried out in accordance with the requirements of the appropriate approving authority, using either air or water testing. References should be made to current editions of Building Regulations (Approved Document 'H') BS EN 752:1997 and BS EN 1610:1998. Where drainage appears inside buildings BS EN 12056 should also be consulted.

Jointing
Pipe End Preparation
When cutting pipes ensure that all ends are chamfered and are free from swarf, grit and dirt.

Ring Seal Joints
The **FloPlast** Ring Seal Joint acts as both a seal and expansion joint. The following sequence should be adhered to:

- Check that all ring seal sockets are properly located in their recessed position.
- Ensure spigots and ring seal sockets are dry, clean and free from grit and dirt.
- Lubricate all ring seal fittings. This will allow for a fast and efficient connection.
- Ensure all pipes and fittings are in the correct position.
- Insert pipe fully into the socket, then withdraw pipe by a minimum of 12mm. This will allow for expansion.

Adaptors
External rainwater downpipes can be connected directly to a surface water drain or, depending on the design, via a gully trap to the underground drainage system.

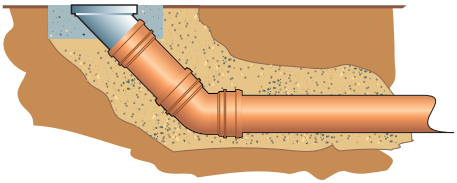
The diameter of FloPlast's 110mm PVC- U above and below ground drainage systems are the same and therefore a direct connection may be achieved without the use of an adaptor. Where rainwater pipes connect directly to a drain, a suitable reducer will be required as follows:

- SP96 110mm x 68mm Rainwater Adaptor for round downpipe. RDS2 should be used with SP96 for connection to 65mm square downpipe.
- D96 Universal Rainwater Adaptor for square and round downpipe.
- D95 Universal Waste Adaptor for 32mm, 40mm and 50mm waste pipe connection to 110mm Soil/ Drainage.

Connection to other materials such as Cast Iron, Supersleve and Hepsleve, is achieved by the use of a range of rigid and flexible couplings and adaptors.

Access and Rodding Points
Access is very important on all installations for testing, inspection, and removal of any blockage or debris. Rodding in both directions can be achieved by using a Mini Access Chamber (MAC) or 450mm Large Inspection Chamber (LIC) in conjunction with access fittings.

Rodding points are more commonly used in storm water drainage systems where the rodding point is located at the head of the drain run connection to a chamber, and being no further than 22 metres away from the chamber. The rodding point should be enclosed in a concrete surround to provide support and to ensure that it does not become mislaid at ground level.



Inspection Chambers
Mini Access Chamber (MAC)

A mini access chamber has a relatively narrow riser shaft, and is used for inspecting, clearing, and rodding a drain line.

The narrowness of the riser shaft permits limited clearing and rodding to a maximum depth to invert of 600mm.

For SfA7 installations this chamber can be installed up to 2000mm.

Any unused side connections should be sealed with a plain socket plug.

Should bends be required to change direction, these should be sited at the point of entry to the chamber.

Side branches of the chamber should not be used to change direction of the main flow, as a self-cleansing flow through the chamber cannot be guaranteed.

Intermediate depths can be achieved by cutting a riser at the indicated points.

The frame and cover should also be adjusted to suit the level of the adjacent ground and surrounded in a minimum of 50mm of concrete.

Scan with your smart phone to watch our Underground installation video

Large Inspection Chamber (LIC) incorporating Non Man Entry Restricted Access Cover & Frame

The large diameter of the riser shafts of inspection chambers enables them to be installed to a maximum depth to invert of 1200mm when used in conjunction with a 450mm opening cover and frame. The chamber complies with Approved Document H of the Building Regulations 2000 by using the 350mm reduced opening cover and frame for installations over 1200mm up to a maximum of 3000mm invert depth.

The chamber is installed on a suitable bed dependent on the quality of the trench and backfill materials.

Backfilling is continued up to approximately 50mm of the finished ground level.

The frame and cover are placed on a bed of concrete around the top of the uppermost shaft, and adjusted to the finished level.

The frame is securely fixed through the wall of the chamber at the set location points using self-tapping screws. The cover is then secured to the frame with the captive screws. It is impossible for the cover to be removed without undoing the screws.

Intermediate depths can be achieved by cutting the riser at 60mm intervals; the frame also has 55mm of telescopic adjustment.

Any unused side connections should be sealed with a plain socket plug.

Should bends be required to change direction, these should be sited at the point of entry to the chamber.

Side branches of the chamber should not be used to change the direction of the main flow, as a self-cleansing flow through the chamber cannot be guaranteed.

Should the connection of D930/D931 cover and frame be required directly to the base D900/D910, then riser D915 must be used and cut to suit, by cutting just above the bottom most large flange/rib.

FloPlast

GroundGuard GROUND REINFORCEMENT SYSTEM

GroundGuard is a linked paving system, manufactured from Polyethylene, that provides a durable safe and eco-friendly surface for grass reinforcement, ground stabilisation and gravel retention for pedestrian and vehicle access areas.

GroundGuard is suitable for:

- Additional/overflow grass car parks.
- Walkways and disabled access routes.
- Golf buggy paths.
- Driveways and residential lawn parking.

Product	Code
GroundGuard Tiles	
 Pack of 20 = 3 square metres 1 Tile = 390 x 390 x 40mm Tested in excess of 200 tonnes per square metre spread load	G40

*Price per pack of 20

LAND DRAINAGE CORRUGATED COLED LAND DRAINAGE PIPE MANUFACTURED IN PVCu

Land Drainage is used to remove excess water from fields and gardens, in fact any area where excessive water is a problem.

The perforations allow seeping water to ingress the pipe, capillary action then maintains the water within the pipe allowing it to flow to its destination i.e. Stormwater Attenuation Tanks, also known as Modular Plastic Geo Cellular Units (egg crates) or a watercourse (stream, lake etc).

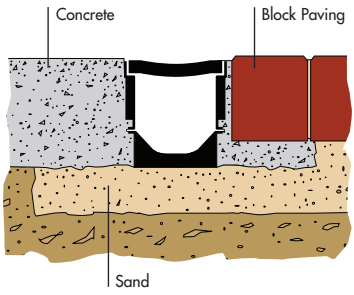
System Features

- Perforated and coiled land drainage pipe is manufactured in HDPE.
- Normally used in agriculture and in building construction sites.
- Particularly beneficial in areas with heavy ground conditions i.e. clay.
- Relieves hydrostatic pressure.

Product	No Size O.D	Code
Land Drainage - 25m Coil		
	80mm x 25m 100mm x 25m	L8025 L10025
Couplings		
	80mm 100mm	LC80 LC100
Multi-Junction Branch		
	80/100mm	LJ100

FloDrain DOMESTIC CHANNEL DRAINANGE

- Quality domestic surface Channel Drainage 110mm x 100mm (Internal channel dimensions).
- Anti-slip heel guard grating.
- Garage Pack available (3 x 1m length, end cap and outlet).
- 5 tonne spread load. 1.5 tonne point load.
- 4 outlets per length for maximum flexibility.
- Quad section for corners and junctions.
- Concave grid for maximum flow.



Product	Code
Channel - 1 Metre length including grate 	D700
Drain Corner 	D710
Garage Pack  (Consists of 3xD700 plus 1xD711 and 1xD712)	D750
End Cap 	D711
End Outlet 	D712
Channel Drain with Galvanised Grate 	D701
Drain Corner with Galvanised Grate 	D720
Galvanised Garage Pack  (Consists of 3xD701 plus 1xD711 and 1xD712)	D751
Sump/Trap Unit and Basket 	D732

Product	Code
Threshold Channel Drain - 1m 	D730
Channel Drain Jointing Clip 	D734

Domestic Channel Drainage
Easy To Install With Concrete or Paving

1. Dig trench for FloDrain, allowing for 50mm deep compacted sand base and wide enough for a minimum of 100mm backfill of concrete on each side.
2. Fix a string line to finishing height of grate 2mm below final surface level.
3. Allow a fall of approx. 5mm for every 1m length (1:200).
4. Start installation at lowest point of the run to accommodate any cut lengths which should be installed at the point furthest from the outlet.
5. FloDrain joints and end caps to be sealed with silicone sealant.
6. Use an end cap at highest point of FloDrain.
7. Connect the lowest end of FloDrain to 110mm PVC- U BS EN1401 drainage pipe using either an end outlet or the preformed channel bottom outlet to allow water to drain away. Contact **FloPlast** for additional coupling details for other connections e.g. clay pipes etc.
8. FloDrain can be cut to length with a hacksaw. Install with grate fitted.
9. Protect grate with tape before concrete is poured.
10. Finish concrete 2mm above level of grate.
11. Allow 72 hours to cure before vehicle use or removing grates.
12. To remove grate, simply run a screwdriver along the edge of the grate to dislodge.
13. If installing block paving or paving slabs, haunch around channel with concrete to a height which allows the depth of the block or slab to finish 2mm above the level of grate.

All FloDrain installations must be set in concrete.

FloPlast
building the future

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17/11/15