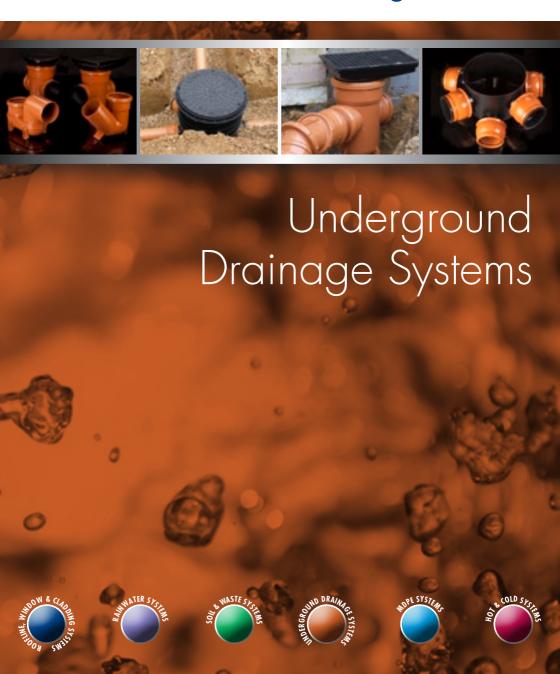
FloPlast building the future



FInPlast

HIGH QUALITY UNDERGROUND DRAINAGE SYSTEMS



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 PVC-U

Underground Drainage Systems (SN4)

BS EN 13476-2

Structured Wall Piping Systems (SN8)

BS4660 PVC-U

Ancillary Items (Rodding Eyes, Access fittings etc)

BS EN 124 Access Covers, Gratings and Frames.

BS EN 13598 - 1 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.







Standards/Quality Control

FloPlast operations embrace quality, environment and energy management systems which have been accredited by BSI to BS EN ISO 9001:2015 Certificate No. FM 501414, BS EN ISO 14001:2015 Certificate No. EMS 538445, BS EN ISO 18001:2007 Certificate No. OHS 593622 501414 and ISO 50001:2011 Certificate No. ENMS 638370.



50001

BS OHSAS 18001 Occupational Health and Saf

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











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
100gm Silicone Grease	
	SG100
125ml Solvent Cement	
○	SC125

Product		Code
250ml Solvent Cement		
	(€	SC250

www.floplast.co.uk Rainwater Systems 3



110MM PIPE & FITTINGS BS 4660, BS EN 1401-1, BS EN 124, BS EN 13476-2

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/BS 4660/BS 7158/ BS EN 124	110mm	160mm
Hepworth	1	1
Brett Martin	1	1
Osma/Wavin	1	1
Polypipe	1	1
Polypipe Terrain	1	1
Marley	1	1
Hunter	1	1

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 3m (Bale quantity 50) 6m	D043
	Perforated Plain Ended 6m (Bale quantity 50)	D046P
	Single Socket (Bale quantity 50)	D143 D146
Pipe Coupli	ng	
	Single Socket Coupling	D124
	Double Socket Coupling Removable centre stop for use as slip coupling	D105
Single Sock	et Bends	
6	87½° Bend (Socket/Spigot)	D161
	45° Bend (Socket/Spigot)	D163
	30° Bend (Socket/Spigot)	D164
	15° Bend (Socket/Spigot)	D167
Double Soc	ket Bends	
	87½° Bend	D561
	45° Bend	D563
	30° Bend	D564
	15° Bend	D567

110MM PIPE & FITTINGS BS 4660, BS EN 1401-1, BS EN 124, BS EN 13476-2







No. of the	1000	CID	
Product	Code	Product	Code
Rest Bends		Access Fittings	
87½° Rest Bend	D571	87½° Access Bend (Socket/spigot)	D169
871/2° Settlement Rest bend	D570	Access Pipe (Socker/spigot)	D274
Adjustable Bend			
0-90° Adjustable Bend (PP-Do not solvent weld)	D560	Screwed Access Cap (Spigot)	D292
Large Radius Bends		Channel Access Pipe PE 1.5m	D870
87½° Plain End	D281	Rodding Points	
45° Plain End	D283	PVC Oval Rodding Point (Spigot)	D881
87½° PE with Channel Access	D581	PVC Oval Rodding Point (Socketed)	D882
45° PE with Channel Access	D583	PVC Square Rodding Point (Spigot)	D883
Equal Junctions Double Socket		PVC Square Rodding Point	D884
		(Socketed)	D004
87½° Junction	D190	(45 rodding point with sealed access cover suitable for loading up to 10kN (1 tonne) v frame of the cover is supported by a concrete plinth)	where the
		DrainGuard	
45° Junction	D210	Fits round and square downpipe (Black)	DG1
Equal Junctions Triple Socket		110mm non-return valve C€	
87½° Junction	D191	110mm Non-Potum	D550
45° Junction	D211		



110MM PIPE & FITTINGS BS 4660, BS EN 1401-1, BS EN 124

Product		Code
Universal Traps		
	Universal Gully Trap (Socket/Spigot 45°)	D500
70	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
7	Rectangular Hopper (Including Polypropylene Grid)	D506
Bottle Gully Traps		
	Bottle Gully Circular Grid	D510
1	Bottle Gully Square Grid	D515
1	Bottle Gully Rectangular Grid	D520
*	Back Inlet Bottle Gully Rectangular Grid	D530
•	Back Inlet Bottle Gully Circular Grid	D540

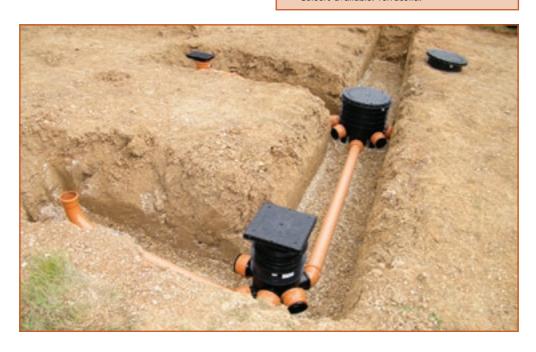
Product		Code				
Hoppers and	Grids					
	Round Hopper and Grid (215mm diameter with height adjustment of 32mm)					
	Square Hopper and Grid (216x216mm with height adjustment of 32mm)	D518				
	Rectangular Hopper and Grid (295x216mm with height adjustment of 32mm)	D524				
	200mm Riser	D505				
Adaptors						
0	110mm Waste Adaptor (Grey/Black/White)	SP95				
9	110x68mm Rainwater Adaptor (Grey/Black/White)	SP96				
	Universal Waste Adaptor (32/40/50mm)	D95				
0	Universal Rainwater Adaptor (Square/Round)	D96				
9	80x110mm Adaptor	D97				
	160x110mm Level Invert (Socket/Spigot)	D99				
	Supersleve Clay Adaptor DS (Black) Hepsleve Clay Adaptor DS (Black)	D100 D101				

110MM PIPE & FITTINGS BS 4660, BS EN 1401-1, BS EN 124

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

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.



D296



1 1 0 MM PIPE & FITTINGS BS 4660, BS EN 1401-1, BS EN 124, BS EN 13598-1+2



Block Paving Cover

(B125)

450mm Square/Round

450mm Ductile Iron Cover/Frame

Conforms to the requirements of SfA7.

D933

D934

Code

D800

D801

D802

D810

D820

D822

D830

D831

D932

Base ·

2 socket plugs

Block Paving Cover

300mm Square/Round

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

INSPECTION CHAMBERS (POLYPROPYLENE)

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.

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

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 752:2008 Drain and sewer systems outside buildings and BS EN 1610:2015 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.

LIC Invert Depth (mm)	270	505	740	975	1210	1445	1680	1915	2150	2385	2620	2855	3090
	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			to a	(D931) 350mm opening up to a maximum of 3000mm								

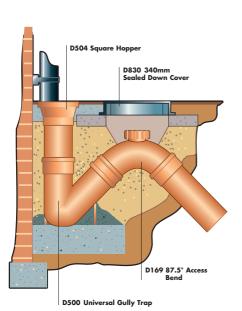
www.floplast.co.uk Underground Drainage Systems 9



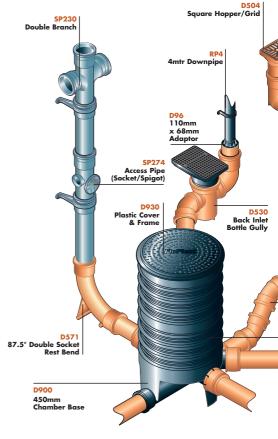
UNDERGROUND DRAINAGE

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).





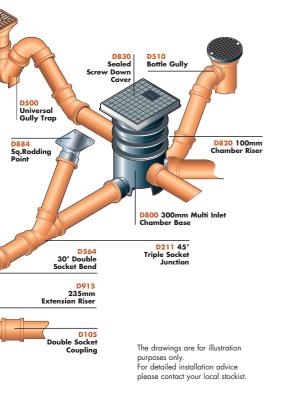


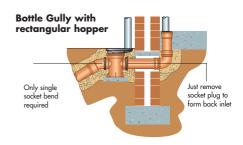
UNDERGROUND DRAINAGE

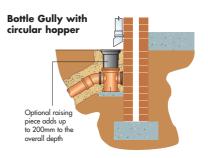
Back Inlet Bottle Gully (BIG)

- 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.











160MM PIPE & FITTINGS, PVC-U BS EN 1401-1, BS EN 124, BS EN 13598-1+2







	1		
Product	Code	Product	Code
Pipe		Equal junctions	
Plain Ended (bale quantity 33) 6m	6D046	87½° Junction (Double Socket)	6D190
Single Socket 3m (bale quantity 33) 6m	6D143 6D146	45° Junction (Double Socket)	6D210
Pipe coupling		87½° Junction (Triple Socket)	6D191
Double Socket Coupling Removable centre stop for use as slip coupling	6D105	45° Junction (Triple Socket)	6D211
Single socket bends		160/110mm Unequal junctions	
87½° Bend (Socket/spigot)	6D161	160x110mm 87½° Junction (Double socket)	6D198
45° Bend (Socket/spigot)	6D163	160x110mm 45° Junction (Double socket)	6D218
30° Bend (Socket/spigot)	6D164	160mm Large Inspection Chamber - 450 Diameter	· (LIC)
15° Bend (Socket/spigot)	6D167	160mm x 160mm 90° Chamber Base With two 45° 110mm Inlets	6D900
Double socket bends		235mm Extension Riser	D915
Double socker bends		(Can be cut to size)	D/13
87½° Bend	6D561	Riser Sealing Ring (Use with each riser)	D935
45° Bend	6D563	235mm Extension Riser ((an be cut to size) Riser Sealing Ring (Use with each riser) 235mm Extension Riser and Seal ((an be cut to size) 450mm Plastic Cover & Frame (35 kN)	D916
30° Bend	6D564	450mm Plastic Cover & Frame (35 kN)	D930*
1 <i>5</i> ° Bend	6D567	450mm Plastic Cover & Frame With 350mm restricted access (35 kN) (For use with 1.C. over 1.2mtr deep up to 3mtr)	D931*
Adaptors		(101 030 WINI N.C. OVOL 1.2 MINI doup up to Unitry)	
160x110mm Level Invert (Socket/spigot)	D99	Cast Iron cover & Plastic Frame (35 kN)	D923
Flexi-Adaptor		*To conform with new document H Building Regulations H2000 use D930 or D931	us required.
Flexi-Adaptor (ast iron/160mm	6D102	Socket Plug	
Clay Adaptor A: 160mm-180mm B: 180mm-200mm	6D104		6D900P

WEIGHTS AND DIMENSIONS

Pipe weights

Single socket pipe

Size	Length	Weight (kg/m)	Code
110	3m	1.63	D143
110mm	6m	1.63	D146
1/0	3m	3.03	6D143
160mm	6m	3.21	6D146

Plain ended pipe

Size	Length	Weight (kg/m)	Code
110	3m	1.6	D043
110mm	6m	1.26	D046
160mm	6m	3.03	6D046

Plain ended perforated pipe

Size	Length	Weight (kg/m)	Hole size	Hole Centres	No. of Holes	Code
110mm	6m	1.72	7mm	20mm	210	D046P

Pipe and fitting dimensions

Wall Thickness

Product	min/max	110mm	160mm
Pipes	min	3.2	4
Fittings	min	3.2	4

Mean outside diameter pipe and fittings spigot

Min/Max	110mm	160mm	
Min	3.2	4	
Max	3.8	4.6	

Size of bales

Product	No. of 3m/6m	Dime	Weight	
Troduct	lengths per bale	height	width	per bale
D043	50	3m	1.2m	245kg
D143	50	3m	1.2m	245kg
D046	50	6m	1.2m	490kg
D146	50	6m	1.2m	490kg
6D143	35	3m	1.2m	337kg
6D046	35	6m	1.2m	657kg
6D146	35	6m	1.2m	674kg



INSTALLATION GUIDE

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 752:2008 and BS EN 1610:2015. 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:

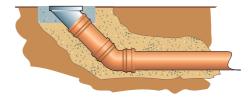
- SP96: 110mm x 68mm Rainwater Adaptor for round downpipe. RDS2 should be used with SP96 for connection to 65mm square downpipe.
- D96: Universal Rainwater Adaptor for square and round downpipe.
- **D95:** Universal Waste Adaptor for 32mm, 40mm and 50mm waste pipe connection to 110mm Soil/ Drainage.

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. For SfA7 installations the invert depths are 1000mm and 3000mm

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 selftapping 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.

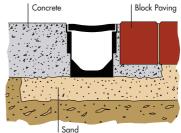
Side branches of the chamber should not be used to change the direction of the main flow, as a selfcleansing flow through the chamber cannot be guaranteed.

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

FIODrain DOMESTIC CHANNEL DRAINANGE BS EN 1433 Attestation Level 3

Product	Code	Product	Code
Channel - 1 Metre length including grate (Pallet quantity 90) ←		Channel with Galvanised Grate (Pallet quantity 90) €	
AND THE REAL PROPERTY.	D700	No of the last of	D701
Drain Corner (€		Drain Corner with Galvanised Grate (€	
	D710		D720
Garage Pack (Pallet quantity 16) (€		Galvanised Garage Pack (Pallet quantity 16) (€	
Charles and Charle	D750	Section of the last of the las	D751
(Consists of 3x1m Channel lengths plus 1x End cap & 1x End outlet)		(Consists of 3x1m Channel lengths plus 1x End cap & 1x End outlet)	
Sump/Trap Unit and Basket C€		Sump/Trap Unit and Basket with Galvanised Grate	€ (€
	D732		D733
End Cap (€		Threshold Channel Drain - 1m C€	
	D711	The second second	D730
End Outlet (€		Corner Spacer (€	
Ö	D712	*	D715
Balloon Guard		Channel Drain Jointing Clip	
	D714		D734
Quality domestic surface Channel Drainage	,	Concrete Block Paving	



Anti-slip heel guard grating.

and outlet).

110mm x 100mm (Internal channel dimensions).

• Garage Pack available (3 x 1m length, end cap

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.

FIODrain DOMESTIC CHANNEL DRAINANGE RS FN 1433 Attectation Level 3

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 EN 1401 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



Easy to use channel to channel locking system



Certified to Load Class A15 BS EN 1433 = 1.5 tonne



Built in heel guard and anti slip system



90° Tee



4 Way Junction



90° Bend



GroundGuard GROUND REINFORCEMENT SYSTEM

Ground Guard 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.



Suitable for:

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

Please visit www.floplast.co.uk for installation instructions.

Product		Code
GroundGuard Tiles		
****	Pack of 20 = 3 square metres 1 Tile = 390 x 390 x 40mm	G40
<i>99</i>	Tested in excess of 200 tonnes per square metre spread load	G40

LAND DRAINAGE

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).

Product	No Size O.D	Code
Land Drainage - 25m Coil		
	80mm x 25m 100mm x 25m	L8025 L10025

Perforated Plain Ended Pipe	
6m	D046P

Code

BS EN 1401, BS EN 13476-2

Product

System Features

- Perforated and coiled land drainage pipe is manufactured in HDPF
- 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
Couplings		
	80mm 100mm	LC80 LC100
Multi-Junction Branch		
	80/100mm	Ш100

NEW STORM WATER TWIN WALL PIPES AND FITTINGS

INEW STORM WA			LO AND IIIIINO	3
Product	Size	Code	Product	Size
6m PE Pipe			Reducing 90° Tee	
	150mm	6T150	-	225mm x 150
	225mm	9T225		
	300mm	12T300	100	300mm x 225
	450mm	18T450		450mm x 300
6m Fully Perforated PE Pipe			Reducing 45° Offset Tee	
	1 <i>5</i> 0mm	6T1 <i>5</i> 0P		225mm x 150
	225mm	9T225P		
	300mm	12T300P		300mm x 225
	450mm	18T450P	-	450mm x 300
Coupling			Seal	
	150mm	6T105		150mm
	225mm	9T105		225mm
	300mm	12T105		300mm
	450mm	18T105		450mm
45° bend			Adaptors/Reducers	
A	1 <i>5</i> 0mm	6T563		150 TW - 160
		9T563		225mm x 150
(B) (B)	225mm			300mm x 225
100	300mm	12T563		450mm x 300
90° bend			800gm Lubricant Gel	
	1.50mm	6T561		
(60x)	225mm	9T561	The state of the s	N/A
		12T561		
N. 48	300mm	121561	Custom Factors	
90° Tee			System Features • For use with agricul	tura anasta faciliti-
	1.50mm	6T191	Manufactured and	
	225mm	9T191	BBA HAPAS Roads	and Bridge
-2000	225mm	91191	Standards	E

All seals must be lubricated.

Other variations of fittings/pipes are available for special order.

300mm

12T191

- ilities and civils.
- Standards.

Code

9T198

12T198

18T198

9T218

12T218

18T218

6T150R

9T225R

12T300R

18T450R

6T100

9T99

12T99

18T99

SG800

- · Made primarily from recycled material.
- Easily cut to required length.
- Smooth bore delivering excellent flow rates.
- A fraction of the weight of concrete pipes.
- Savings due to reduced manpower and plant costs.

FloPlast building the future









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Brochures available:















April 2019





























