FloPlast building the future











Introduction to FloPlast's Underground Drainage Systems

FIOPLAST are an established market leader in the manufacture and supply of Plastic Building and Plumbing systems in the UK. The Company's specialises in the following:

- PVC-UE Roofline, Window & Cladding Systems
- Rainwater Systems
- Soil & Waste Systems
- Underground Drainage Systems.
- MDPE Pipe and Fittings
- Hot & Cold Plumbing 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.



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





Transport, Handling & Storage

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 ties.

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 bends, gully traps and gully grids are manufactured from polypropylene.

Colour

Pipes and fittings are manufactured in golden brown (terracotta) 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.





110mm Pipe & Fittings Material: PVC-U Standard: BS 4660, BS EN 1401-1, 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 with no sharp edges, and with space restrictions in mind, will facilitate 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

Brand	110mm	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 clear and easy to get to grips with 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 - 3/6n	1		
	Plain Ended	3m	D043
	(Bale quantity 50)	6m	D046
	Perforated Plain Ended (Bale quantity 50)	6m	D046P
	Single Socket	3m	D143
	ale quantity 50) erforated Plain Ended ale quantity 50) ngle Socket ale quantity 50) G Single Socket Co	6m	D146
Pipe Coupl	ing		
9	Single Socket C	Coupling	D124
	Double Socket (Coupling	

Single Socket Bends

87½° Bend (Socket/Spigot)	D161
45° Bend (Socket/Spigot)	D163
30° Bend (Socket/Spigot)	D164
15° Bend (Socket/Spigot)	D167

Removable centre stop for

use as slip coupling

D105

Double Socket Bends

87½° Bend	D561
45° Bend	D563
30° Bend	D564
15° Bend	D567



110mm Pipe & Fittings Material: PVC-U Standard: BS 4660, BS EN 1401-1, BS EN 13476-2

Product	Code	Product
Rest Bends		Access Fittings
87½° Rest Bend	D571	
87½° Settlement Rest Bend	D570	-
Adjustable Bends		
0-90° Adjustable Bend	D560	
Large Radius Bends		
		Rodding Points
87½° Plain End	D281	PVC
45° Plain End	D283	PVC O
87½° Plain End with Channel Access	D581	PVC Sc
45° PE with Channel Access	D583	PVC Squa
Equal Junctions Double Socket		where the frame of the cover is s
87½° Junction	D190	110mm Non-Return V
45° Junction	D210	DrainGuard
Equal Junctions Triple Socket		
87½° Junction	D191	
45° Junction	D211	

Product		Code
Access Fittin	gs	
	87½° Access Bend (Socket/spigot)	D169
-	Access Pipe (Socket/spigot)	D274
	Screwed Access Cap	D292
	Channel Access Pipe PE 1mtr	D870
Rodding Poi	nts	
9	PVC Oval Rodding Point (Spigot)	D881
	PVC Oval Rodding Point (Socketed)	D882
4	PVC Square Rodding Point (Spigot)	D883
•	PVC Square Rodding Point (Socketed)	D884
	with sealed access cover suitable for loading up to 10 the cover is supported by a concrete plinth)	kN (1 tonne)
110mm Non	-Return Valve ((
	110mm Non-Return Valve-Single Flap	D550
DrainGuard		
	Fits round and square downpipe	DG1



110mm Fittings Material: PVC-U Standard: BS 4660, BS EN 1401-1, BS EN 124

Product		Code
Universal Traps		
	Universal Gully Trap (Socket/Spigot 45°)	D500
T	Low Back 'P' Trap	D501
	Leaf/Debris Interceptor Gully	D94
	Spare Square Grid	D502
	Square Blank Cover Grid	D508
4	Square Hopper Including Polypropylene Grid	D504
	Rectangle Blank Cover Grid	D507
	Rectangular Hopper Including Polypropylene Grid	D506
Bottle Gully Traps		
	Bottle Gully Circular Grid	D510
	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
	200mm Riser	D505

Product		Code
Hopper and Grid		
	Round Hopper and Grid	D514
	Square Hopper and Grid	D518
	Rectangular Hopper and Grid	D524
Adaptors		
9	110mm Waste Available in B W G	SP95*
	110x68mm Rainwater Available in B W G	SP96
	Universal Waste (32/40/50mm)	D95
0	Universal Rainwater (Square/Round)	D96
	80x110mm	D97
	160x110mm Level Invert (Socket/Spigot)	D99
	Supersleve Clay DS	D100
	Hepsleve Clay DS	D101

Important when ordering: Please add colour reference to code: B Black W White G Grey









110mm Fittings Material: PVC-U Standard: BS 4660, BS EN 1401-1, BS EN 124

Product		Code
Drain Connector		
	Available in B G	SP107
Connects directly into socket of a ca system to provide a socket for plasti		ipe
Flexible Couplings, Connecto	ors and Adaptors	
	Coupling 98mm-115mm	D102
The state of the s	Adaptor A: 98mm-115mm B: 120mm-136mm	D103
Socket Plug		
		D296

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 which is lightweight and easy to work with.
- Suitable for high temperature 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.



Important when ordering: Please add colour reference to code: B Black





110mm Fittings Material: Polypropylene Standard: BS EN 1401-1, BS EN 124, BS EN 13598-1 & 2

Product	Code	Product	Code
Large Inspection Chamber - 450mm Diameter	(LIC)	Mini Access Chamber - 300mm Diameter (MAC)	
270mm Deep Chamber Base 5x110mm flexible inlets Supplied with 4 socket plugs (Allows for 0-20° of movement)	D900	270mm Deep Chamber Base 5x110mm flexible inlets Supplied with 4 socket plugs (Allows for 0-20° of movement)	D800
270mm Deep Chamber Base 5x110mm fixed inlets Supplied with 4 socket plugs	D910	270mm 45° Inlet Chamber Base 3x110mm flexible inlets Supplied with 2 socket plugs (Allows for 0-20° of movement)	D801
235mm Extension Riser (Can be cut to size)	D915	270mm 90° Inlet Chamber Base 3x110mm flexible inlets Supplied with 2 socket plugs (Allows for 0-20° of movement)	D802
235mm Extension Riser and Seal (Can be cut to size)	D916	270mm 45° Inlet Chamber Base 3x110mm fixed inlets Supplied with 2 socket plugs	D810
Riser Sealing Ring (Use with each riser)	D935	100mm Chamber Riser With integral rubber ring (60mm cut down facility)	D820
450mm Plastic Cover and Frame (A15 rating)	D930	200mm Chamber Riser With integral rubber ring (60/100/150mm cut down facility)	D822
450mm Plastic Cover and Frame with 350mm restricted access (A15 rating) (For use with LC over 1.2mtr deep up to 3mtr)	D931	Square 340mm Sealed Plastic Screw Down Cover and Frame (A15 rating)	D830
Cast Iron Cover and Plastic Frame (A15 rating) (For replacement purposes only)	D923	Round 300mm Sealed Plastic Screw Down Cover and Frame (A15 rating)	D831
Block Paving Cover 450mm Square/Round	D933	Block Paving Cover 300mm Square/Round	D932
450mm Ductile Iron		800g Lubricant Gel	
Cover/Frame (B125 rating) (Conforms to the requirements of SfA7)	D934		SG800
NEW 450mm Plastic Cover and Square Frame (A15 rating)	D940		

D941

NEW 450mm Plastic Cover and Square Frame

(A15 rating) restricted access (For use with I.C. over 1.2mtr deep up to 3mtr)

To conform with document H Building Regulations H2015 use D930/D931/D940/D941 as required. 450mm inspection chamber covers are compatible with the 160mm Inspection Chamber base.



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 100mm and 200mm chamber risers, 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 for general guidance 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.

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

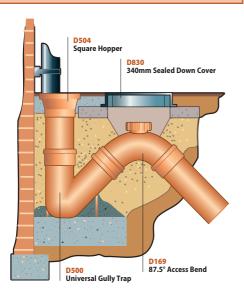
LIC Invert Depth (mm)	270	505	740	975	1210	1445	1680	1915	2150	2385	2620	2855	3090
Number of Riser Required	Base only	1	2	3	4	5	6	7	8	9	10	11	12
Cover Required		(D930) 450mm opening up to a maximum of 1200mm				(D931) 350mm opening up to a maximum of 3000mm							



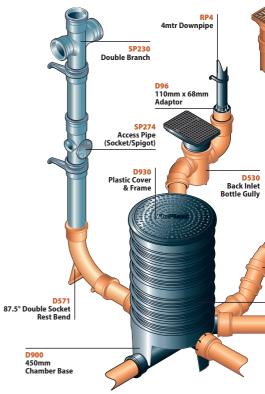
Underground Drainage

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).







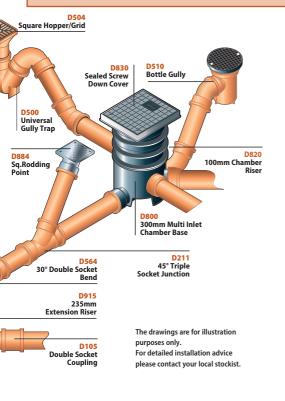


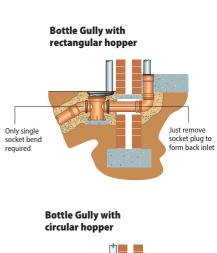
Underground Drainage

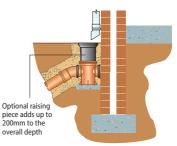
Back Inlet Bottle Gully (BIG)

- 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 Material: Polypropylene/PVC-U Standard: BS 4660, BS EN 1401-1, BS EN 13598-1&2, BS EN 13476-2, BS EN 124

Product	Code	Product	Code
Pipe - 3/6m		Equal Junctions	
Plain Ended (Bale quantity 35) 6m	6D046	87½° Junction (Double Socket)	6D190
Single Socket 3m (Bale quantity 35) 6m	6D143 6D146	45° Junction (Double Socket)	6D210
Pipe Coupling		87½° Junction	
Double Socket	6D105	(Triple Socket)	6D191
Single Socket Bends		45° Junction (Triple Socket)	6D211
ATT/02 1/6 1 // 1 //		160/110mm Unequal Junctions	
87½° Bend (Socket/spigot)	6D161	87½° Junction (Double socket)	6D198
45° Bend (Socket/spigot)	6D163	45° Junction (Double socket)	6D218
30° Bend (Socket/spigot)	6D164	160mm Large Inspection Chamber - 450 Diamo	otor (LIC
			etel (LIC
15° Bend (Socket/spigot)	6D167	160mm x 160mm 90° Chamber Base with two 45° 110mm Inlets	6D900
Double Socket Bends		235mm Extension Riser	
87½° Bend	6D561	(Can be cut to size)	D915
45° Bend	6D563	((an be cut to size) 235mm Extension Riser and Seal ((an be cut to size) Riser Sealing Ring	D916
30° Bend	6D564	(Use with each riser)	D935
15° Bend	6D567	450mm Plastic Cover and Frame (A15 rating)	D930
Adaptors		450mm Plastic Cover and Frame with 350mm restricted access (A15 rating) (For use with I.C. over 1.2mtr deep up to 3 mtr)	D931
160x110mm Level Invert (Socket/ spigot)	D99	Cast Iron cover and Plastic Frame (A15 rating)	D923
Flexi-Adaptor Cast iron/160mm	6D102	NEW 450mm Plastic Cover and Square Frame (A15 rating)	D940
Clay Adaptor A: 160mm-180mm B: 180mm-200mm Socket Plug	6D104	NEW 450mm Plastic Cover and Square Frame (A15 rating) restricted access (Foruse with I.C. over 12mtr deepup to 3mtr)	D941
0	6D900P	To conform with document H Building Regulations H2015 use D930/D931/D940/D9450mm inspection chamber covers are compatible with the 160mm Inspection Cha	



Pipe Weights

Single socket pipe

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

Plain ended pipe

Size	Length	Weight (kg/m)	Code
110mm	3m	1.6	D043
	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 & 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 lengths per bale	Dimensions height width		Weight per bale
D043 (PE)	50	3m	1.2m	245kg
D143 (SS)	50	3m	1.2m	245kg
D046 (PE)	50	6m	1.2m	490kg
D046P (PE)	50	6m	1.2m	516kg
D146 (SS)	50	6m	1.2m	490kg
6D143 (SS)	35	3m	1.2m	337kg
6D046 (PE)	35	6m	1.2m	657kg
6D146 (SS)	35	6m	1.2m	674kg

(PE): Plain ended pipe (SS):Single socket pipe



Installation Guide - Pipe & Fittings

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:

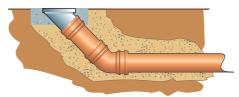
- SP96: 110mm x 68mm Rainwater Adaptor for round downpipe. RDS2 should be used with SP96 for connection to 65mm square downpipe.
- **D96**: Universal Rainwater Adaptor for square and round downpipe.
- D95: Universal Waste Adaptor for 32mm, 40mm and 50mm waste pipe connection to 110mm Soil/ Drainage.

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.





Installation Guide - 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.



Installation Guide - Large Inspection Chamber (LIC)

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 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.

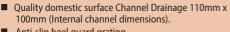
Side branches of the chamber should not be used to change the direction of the main flow, as a self-cleansing flow through the chamber cannot be guaranteed.

Should the connection of D930/D931/D940/D941 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.

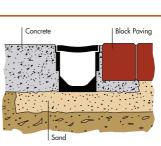


Flourain 110mm Domestic Channel Drainage Material: Polypropylene/Galvanised steel Standard: BS EN 1433 Attestation level 3

Product	Code	Product	Code
Channel Drain with Plastic Grate - 1mtr (Pallet qt		Channel Drain with Galvanised Grate - 1mtr (Pallet gr	
Chamies Frank Wall Laste Grace Title (Lance que	D700	The state of the s	D701
Drain Corner with Plastic Grate C6		Drain Corner with Galvanised Grate (6	
	D710		D720
Garage Pack with Plastic Grate (Pallet quantity 1	l6) (€	Garage Pack with Galvanised Grate (Pallet quantity	16) 🤇€
Land to the state of the state	D750	AND DESCRIPTION OF THE PARTY OF	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 with Plastic Grate	C€	Sump/Trap Unit and Basket with Galvanised Gra	ite (€
	D732		D733
End Cap (€		Threshold Channel Drain - 1mtr (6	
	D711	War and the state of the state	D730
End Outlet (6		Channel Drain Jointing Clip	
Ò	D712		D734
Balloon Guard		Corner Spacer (€	
	D714	\$	D715



- 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.





Installation Guide - FloDrain 110mm Domestic Channel Drainage

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
- 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
- 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



Ground Guard Lightweight ground reinforcement system suitable for pedestrian areas and light vehicle access

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:

Product

Couplings

- 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
GroundGuar	d Tiles	
	Pack of 20 = 3 square metres 1 Tile = 390 x 390 x 40mm	
	Tested in excess of 200 tonnes	G40

per square metre spread load

Land Drainage Standard: BS 4962, Licence No: KM557607

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.

	80mm	LC80
	100mm	LC100
Multi-Junction Branch		
	60/80/100mm	LJ100
Land Drainage - 25m Coil		
	80mm x 25m	L8025
	100mm x 25m	L10025

No Size O.D

Code









Ancillaries

800g Lubricant Gel

Product	Code	Proc
40ml Compressed Silicone Lubricant Spray		125
	SL40	Park I
100g Silicone Grease		250
	SG100	Park

Product	Code
125ml Solvent Cement C€	
	SC125
250ml Solvent Cement C€	
	SC250

Number of joints achievable (for guidance only)						
Lubricant	32mm	40mm	50mm	110mm		
100g Silicone Grease	160	120	100	60		
800g Lubricant Gel	1200	950	800	450		
40ml Silicone Spray	600	420	400	225		

Number of joints achievable (for guidance only)						
Solvent Cement	32mm	40mm	50mm	110mm		
125ml	27	27	27	7		
250ml	55	55	55	15		



SG800

FloPlast building the future



Contact Details:

FloPlast Limited Castle Road Eurolink Business Park Sittingbourne Kent ME10 3FP UK

Tel

01795 431731

Sales Office Direct Line

01795 421422

Fax

01795 431188

E-mail

sales@floplast.co.uk

Website

www.floplast.co.uk



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Brochures available:















































