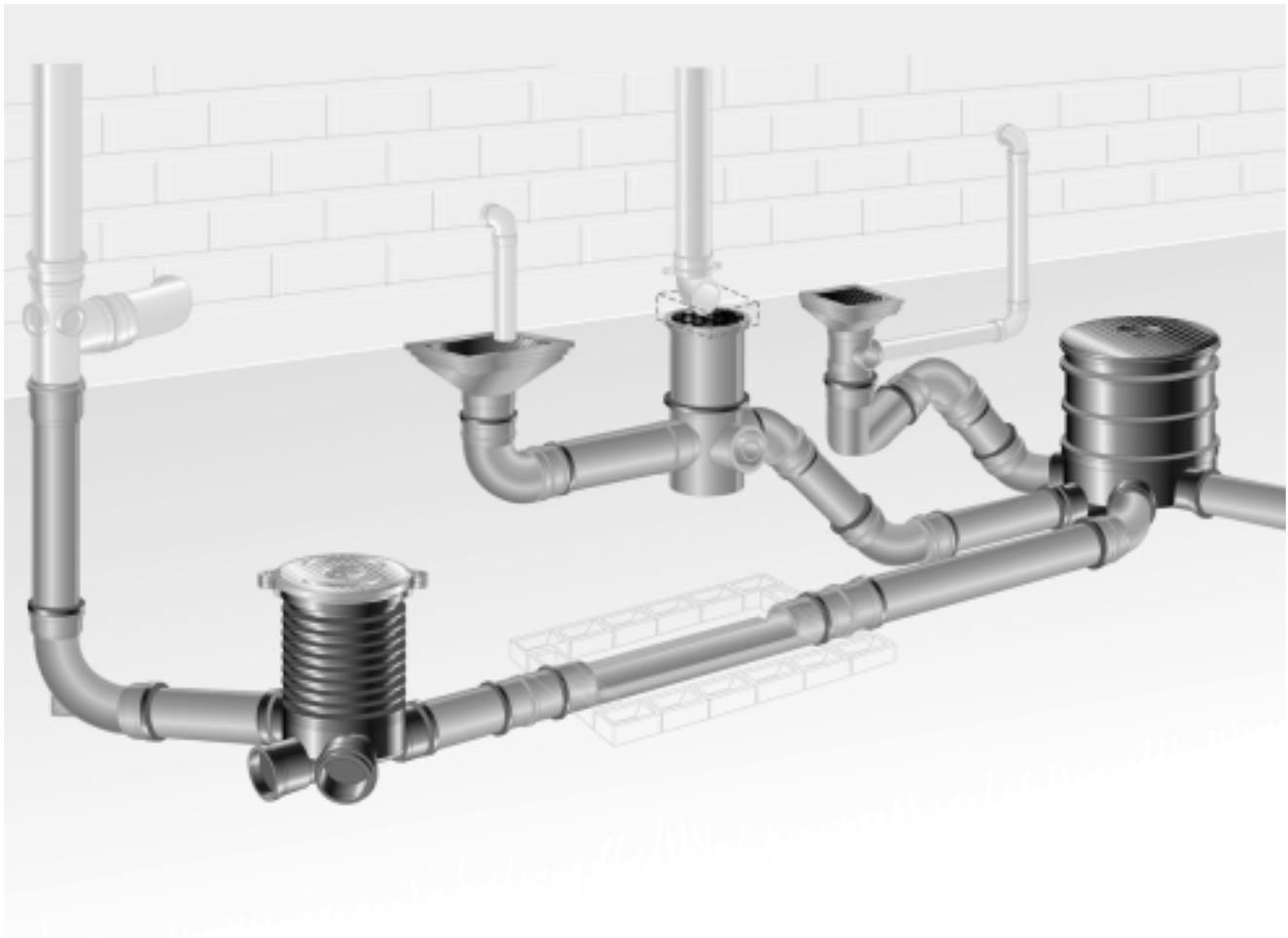


8.00

GULLIES

Hunter Underground Systems

- 8.01 Gully Introduction
- 8.02 Bottle Gully
- 8.03 Multi-Gully Trap
- 8.04 Gully Combinations
- 8.05 'P' Gully Trap
- 8.06 Courtyard Gully



8.01

Gullies introduction

8.01 GULLIES

A gully holds water, like a trap, to stop foul air escaping from the foul drainage system. Its purpose is to accept waste water from ground floor bathrooms, kitchens and utility rooms or rainwater from paved areas or roofs.

Roddable Bottle Gully

Hunter Plastics Ltd manufacture the Roddable Bottle Gully and the Multi Gully Trap. Hunter's bottle gullies incorporate a trap to retain detritus that is accessible for cleansing and also a means of access for rodding the branch drain beyond the trap. The gully is available with either a sealed, circular or square topped grating. A raising piece allows the depth to be altered to suit the installation.

The Bottle Gully has one 110mm outlet and three closed inlets for either waste pipe or 110mm connections. To discharge waste pipes to this gully adapt the smaller closed inlets by drilling them out with a 48mm hole cutter and use the correct adaptor for the boss to accept the 32mm, 40mm and 50mm waste pipe. These items will be found in the soil and waste range of products.

Support

Either a lean mix of concrete (no richer than 1 in 18) should support the Bottle Gully or a ready-made slab both should then be surrounded with granular backfill. To ensure the gully is easily accessible for cleaning out, its base should be within easy reach from ground level.

Drain Connection

If possible the roddable Bottle Gully should be connected to a manhole, but as it is roddable it may be positioned up to 22 metres away from one. Although, it can be connected straight into a drainpipe section with a 45° junction, however, the Gully must be less than 12 metres from the drain and a set of drain rods must be able to pass right through to the junction.

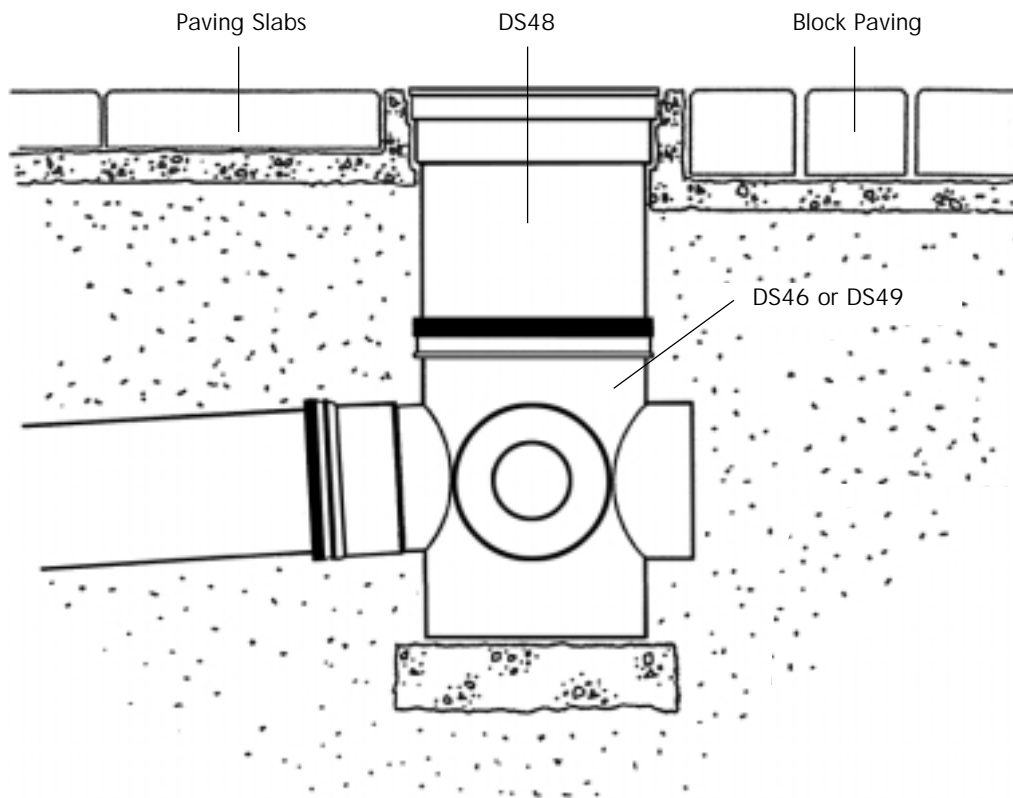
Standards

All Hunter Plastic gully fittings are manufactured to the requirements of BS4660: 2000. Gully grids meet the requirements of BS EN1253: Part 2.

8.02

Bottle Gully

8.02 BOTTLE GULLY



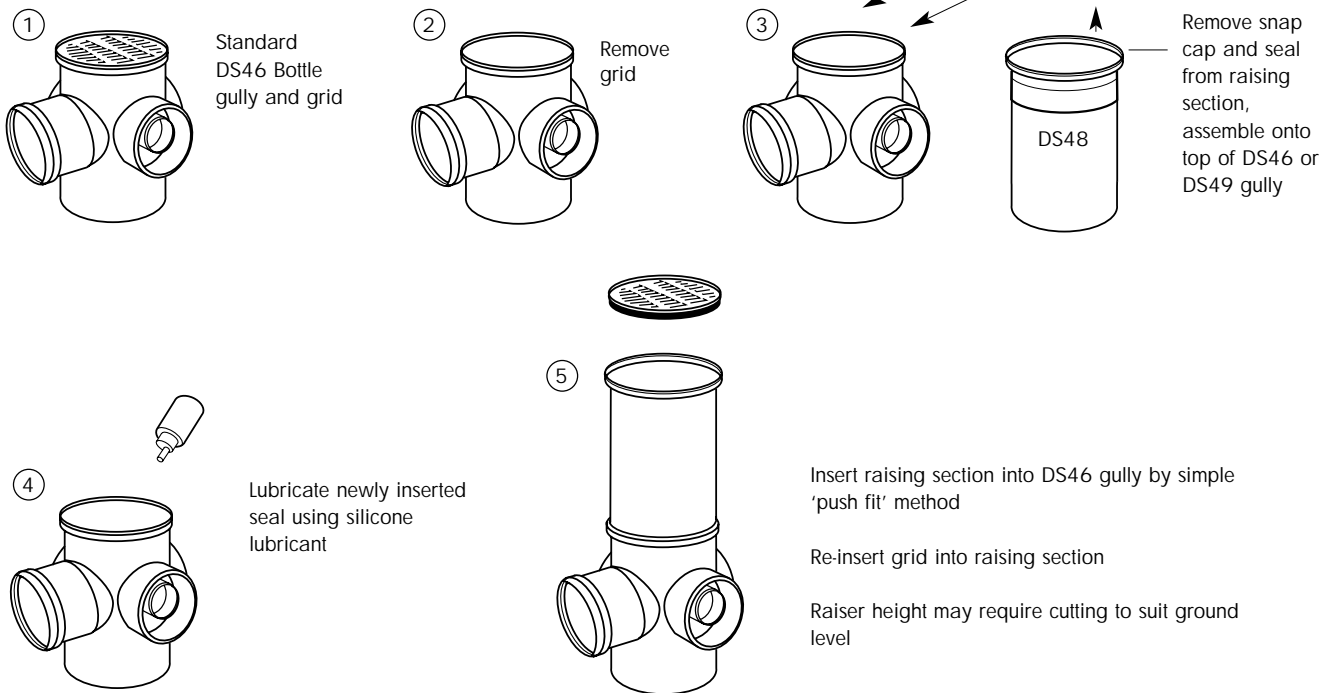
Bottle Gully

- Hunter's DS46 (Circular) and DS49 (Square) Bottle Gullies have a 50mm water seal trap and are supplied with a heavy duty grille
- Incorporating multi-functional side and back inlets, the gully will accept Waste or Rainwater pipework from 32mm up to 110mm sizes

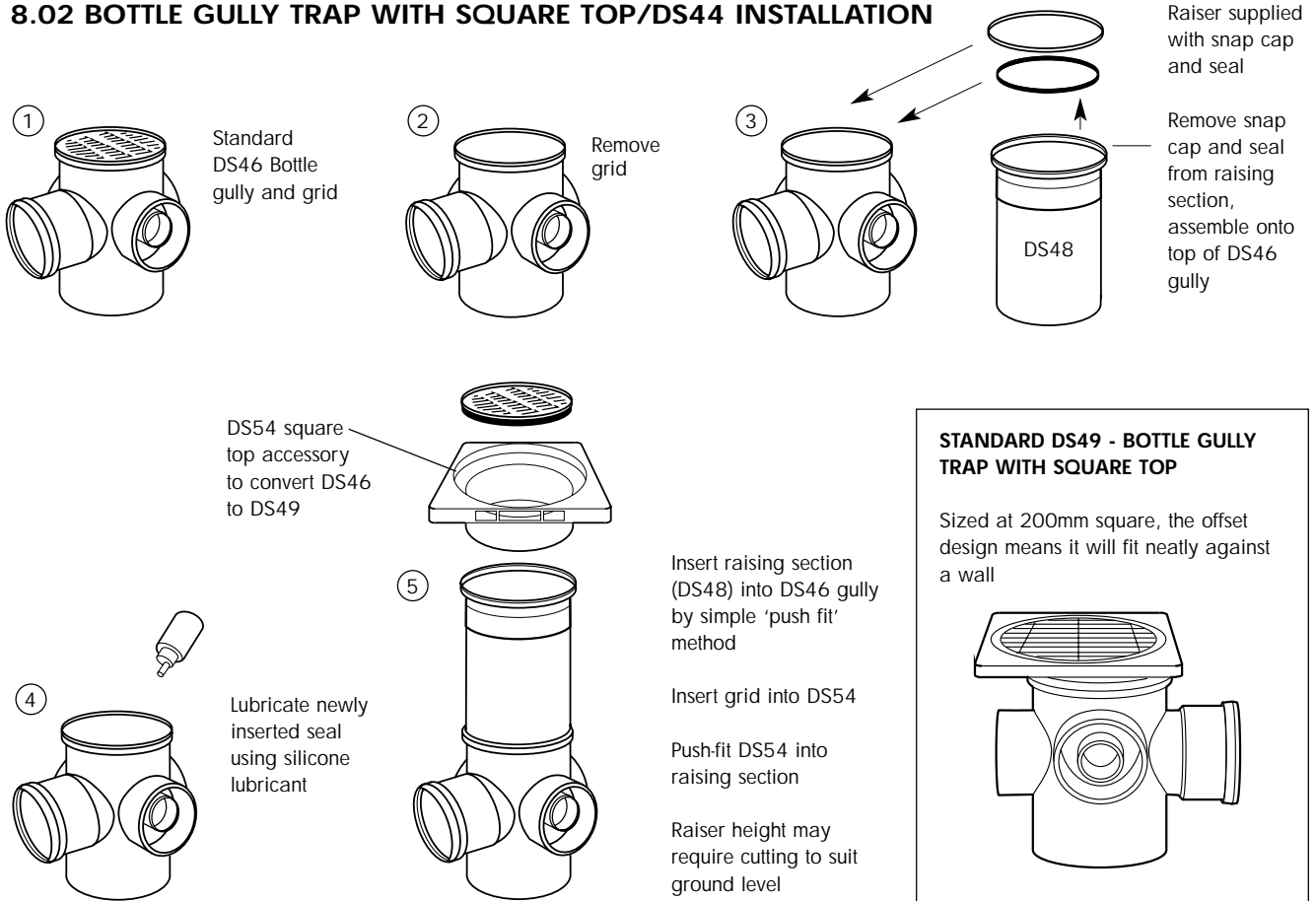
DS48 Raising Piece

- Designed for use with Hunter Bottle Gully, product is an ideal addition when laying block or slab paving
- For use on new installations or existing gullies, raises gully grating by 260mm
- Easily cut to length on-site to suit varying ground levels
- Simple push-fit connection, no solvent cements or mastic necessary

8.02 BOTTLE GULLY RAISING PIECE/DS48 INSTALLATION

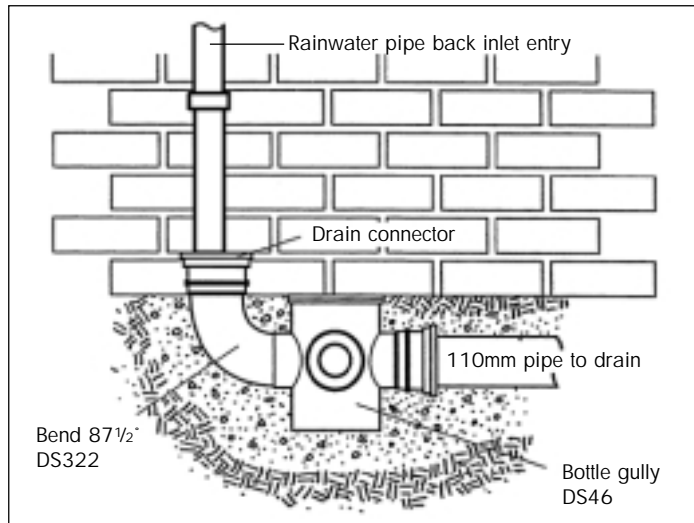


8.02 BOTTLE GULLY TRAP WITH SQUARE TOP/DS44 INSTALLATION

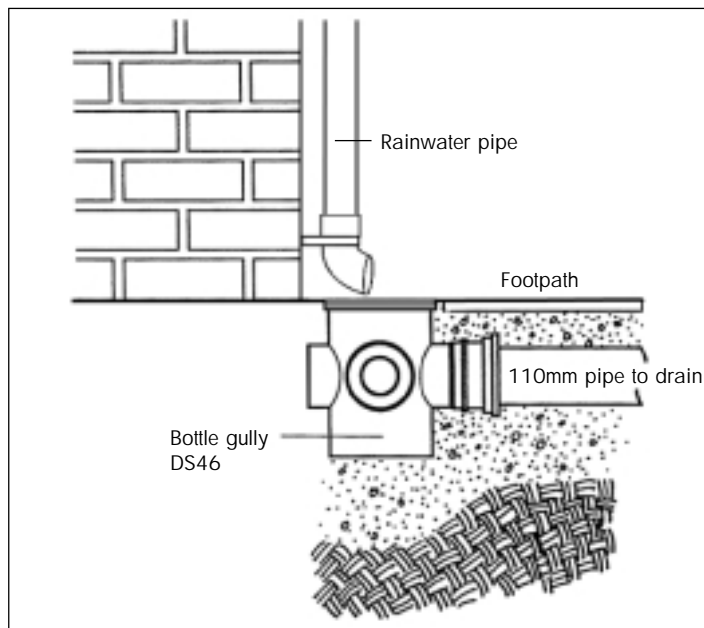


8.02 BOTTLE GULLY APPLICATIONS

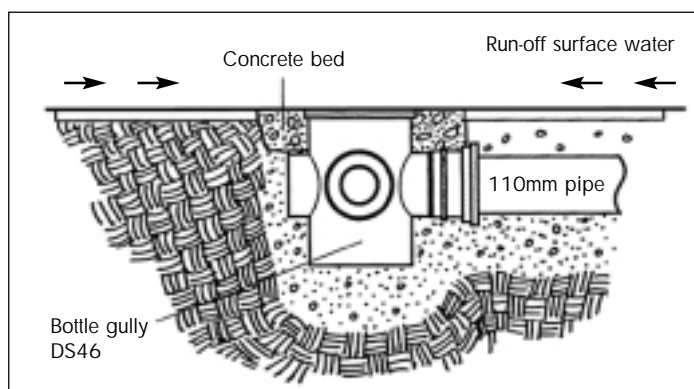
RAINWATER PIPE TO BOTTLE GULLY BACK ENTRY



RAINWATER PIPE TO BOTTLE GULLY GRATING



SURFACE WATER RUN-OFF TO BOTTLE GULLY



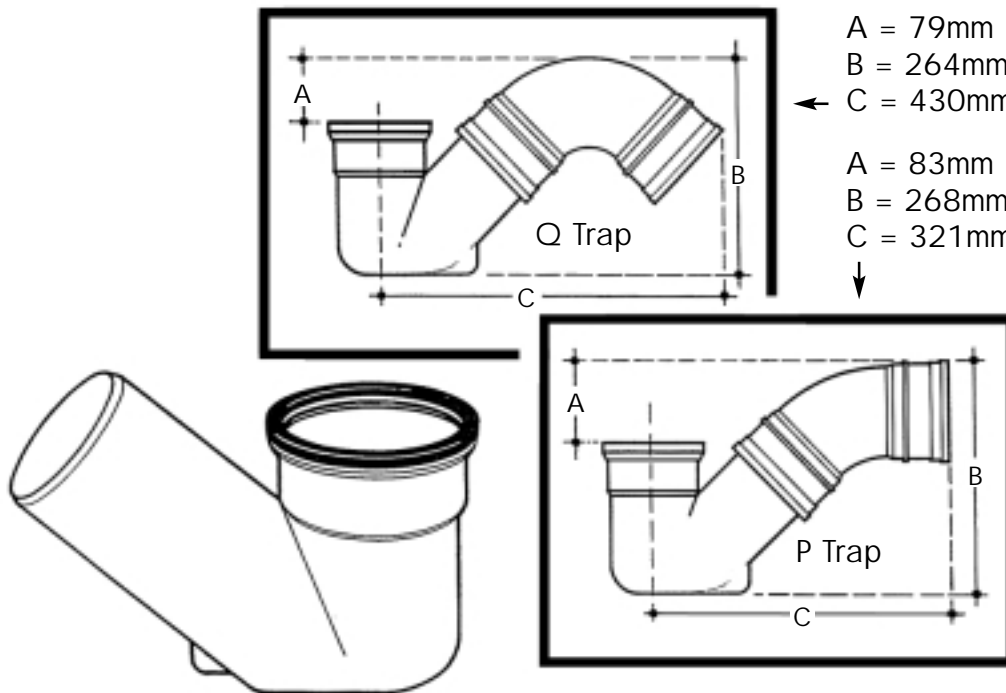
8.03

Multi Gully Trap

8.03 MULTI GULLY TRAP

Where a roddable gully is not required, the Multi Gully Trap (DS12) may be used. A hopper and grating act as the inlet into the gully trap. Hoppers are joined to gully traps with a short piece of 110mm diameter drain pipe. Glue the hopper to the pipe and push the chambered and lubricated end into the socket of the gully trap. The waste pipe should terminate below the grating but above the water line. A 45° or 90° double socketed bend is pushed onto the gully to achieve the required angle of the outlet. (See diagram)

There are ranges of products that allow rainwater pipe to be connected directly to the drain Multi Gully Trap. They are fitted over a section of chamfered drainpipe, lubricated and pushed onto the Multi Gully Trap.



PRODUCT DETAILS

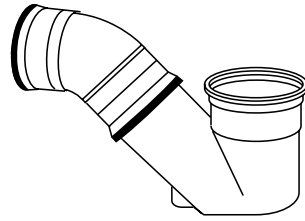
110mm Multi - Gully Trap To be used in conjunction with the following bends:

To form	Expansion Tail	Spigot Tail
'P' Trap	DS676	DS331
'Q' Trap	DS671	DS322
'S' Trap	DS671	+ DS331

GULLY TRAPS - BEND ARRANGEMENTS

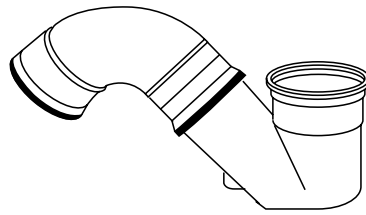
'P' TRAP

-using DS12 with DS676 (45° Bend).



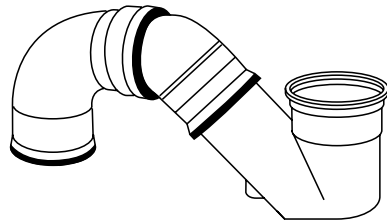
'Q' TRAP

-using DS12 with DS671 (87½° Bend).



'S' TRAP

-using DS12 with DS331 (45° Bend) and DS671 (90° Bend).



8.04

Gully Combinations

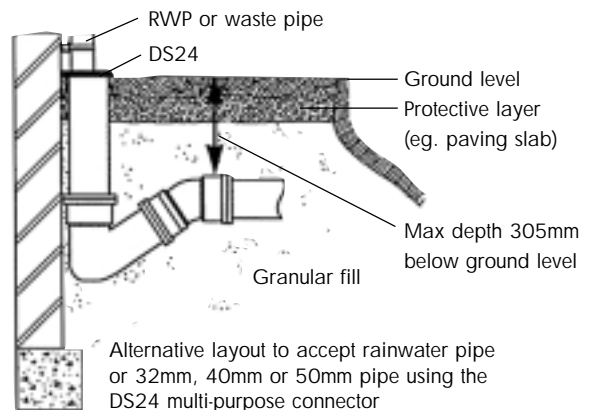
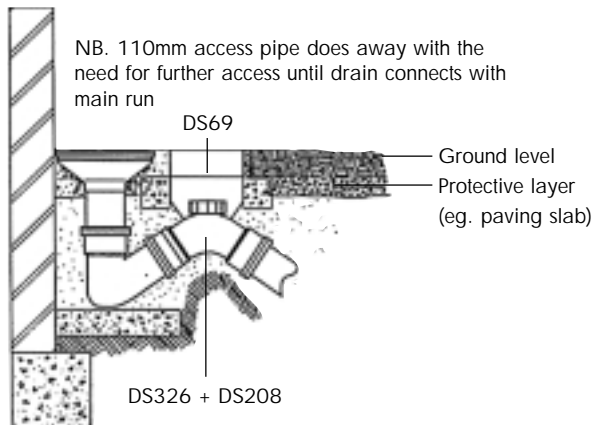
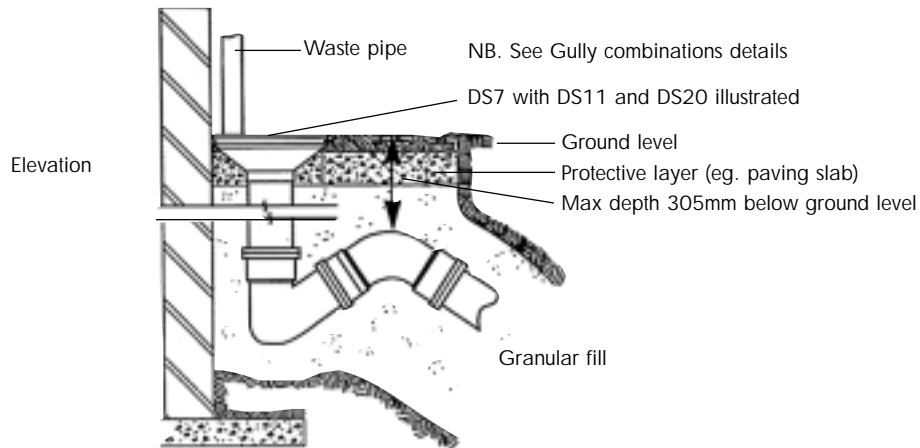
8.04 GULLY COMBINATIONS

The Multi-Gully Trap (DS12) may be used with a wide range of bends offering a choice of P, Q or S trap outlets.

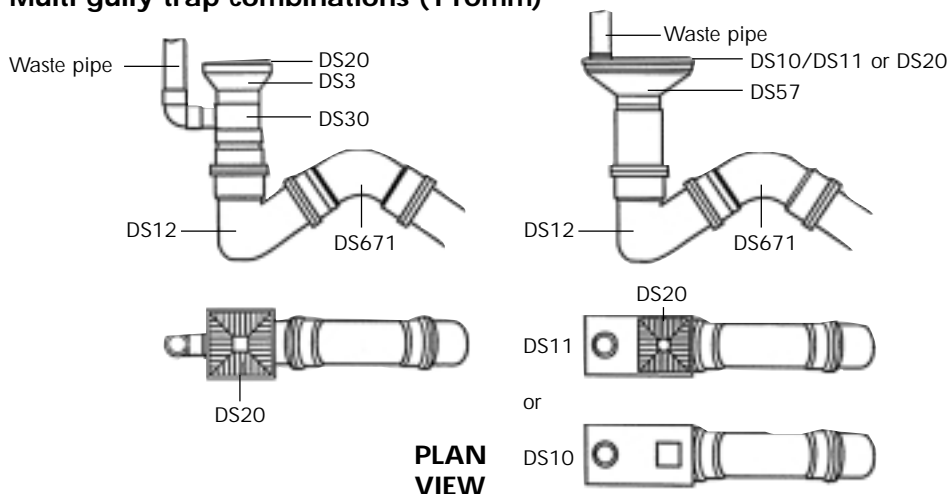
The appropriate hopper should be attached to the trap out of the ground, and the whole assembly may be placed on a ready-made concrete slab, connected to the main drain, and backfilled with a selected granular material.

If the assembly is not protected by pavings or concrete at ground level eg., in a garden, then a concrete slab should be bedded above the outlet bend to prevent damage from garden implements. To ensure the gully is easily accessible for cleaning out, its base should be within easy reach from ground level.

Outlined below are some typical installations and multi gully trap combinations.



Multi gully trap combinations (110mm)



8.05

'P' Gully Trap

8.05 'P' GULLY TRAP (DS1) INSTALLATION

Technical specification - Hunter 110mm 'P' Gully Trap description

The Hunter 'P' gully traps are moulded in golden brown and have inlet and outlet sockets each with a seal capable of receiving the spigot of 110mm diameter PVCu pipe.

Delivery to site and storage

The 'P' gully traps are supplied unprotected and it is important that care is taken to avoid damage. If a long period of storage on site is envisaged the traps should be protected from strong sunlight.

Installation

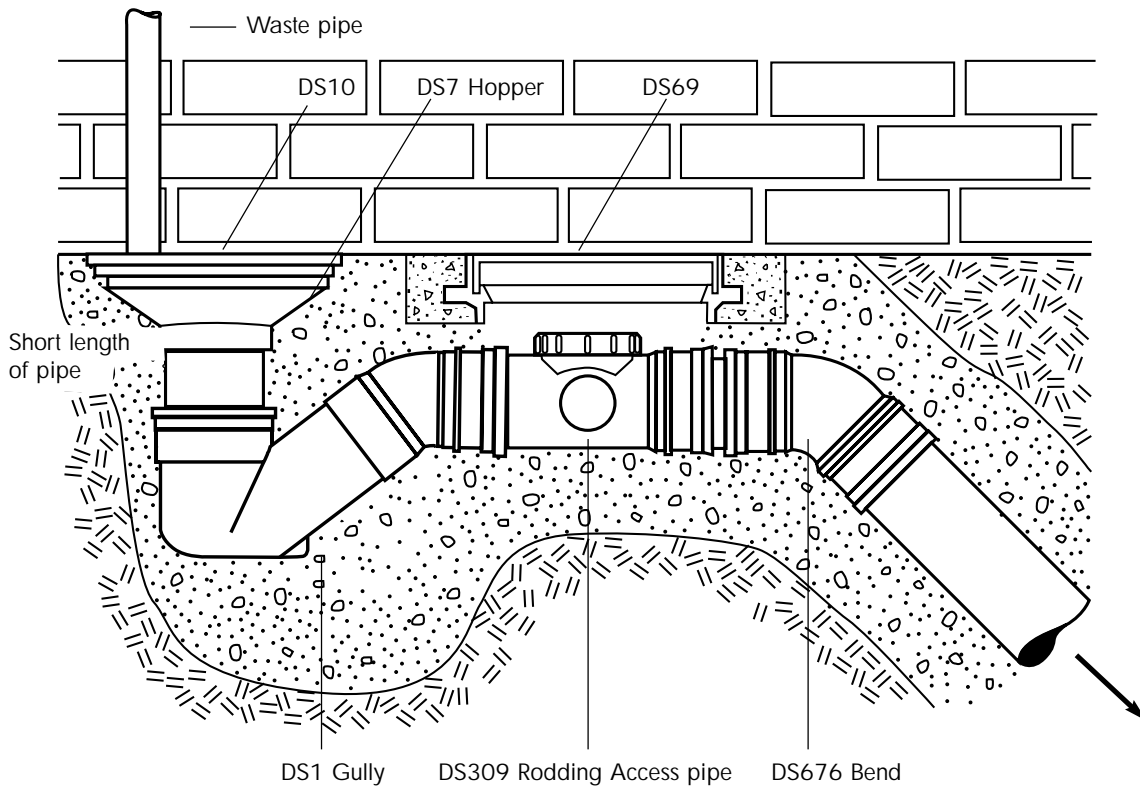
The 'P' gully traps should be bedded on a minimum of 50mm of 10mm nominal single-sized aggregate. Alternatively, granular material in accordance with the recommendations of Appendix A may be used but having a particle size not exceeding the specified in Table one section 6.09 for a 110m PVCu pipe.

Backfilling is carried out using suitable granular material as described up to a level of 100mm above the crown of the trap. If preferred, the traps may be surrounded by a lean mix concrete.

The crown of the traps should not be more than 305mm below ground level, and suitable protective material should be placed on the granular fill.

Precautions must be taken during and after installation to protect the traps from damage due to site traffic.

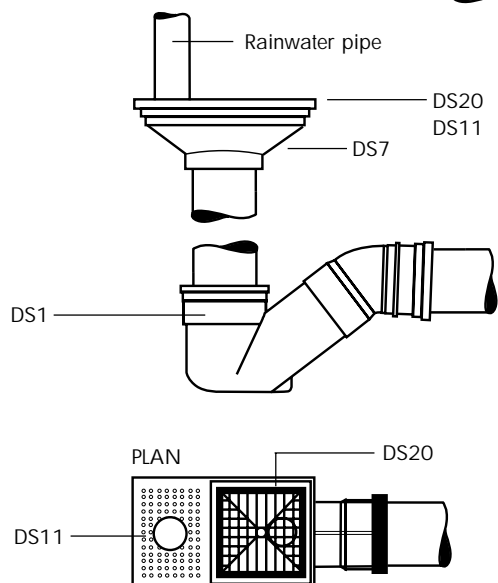
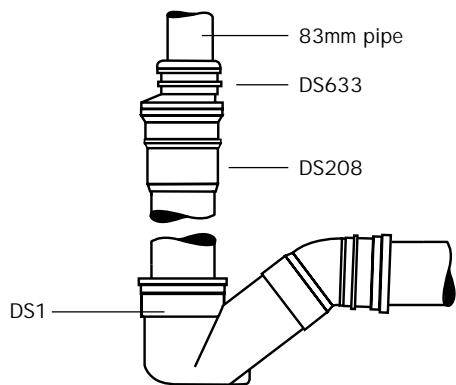
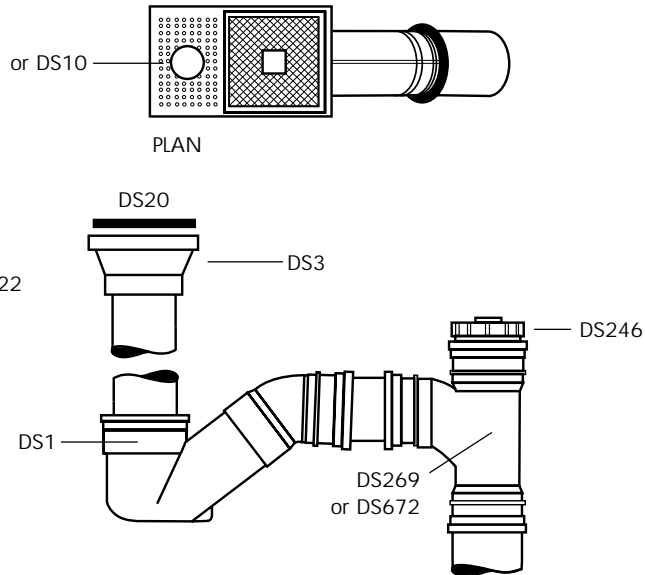
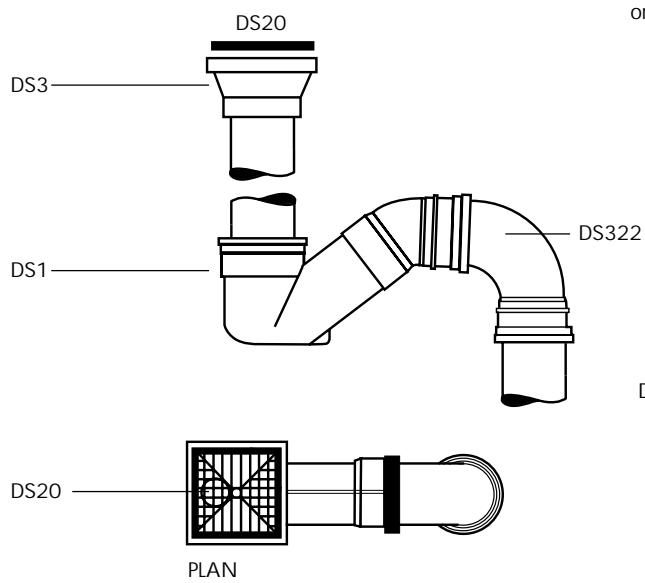
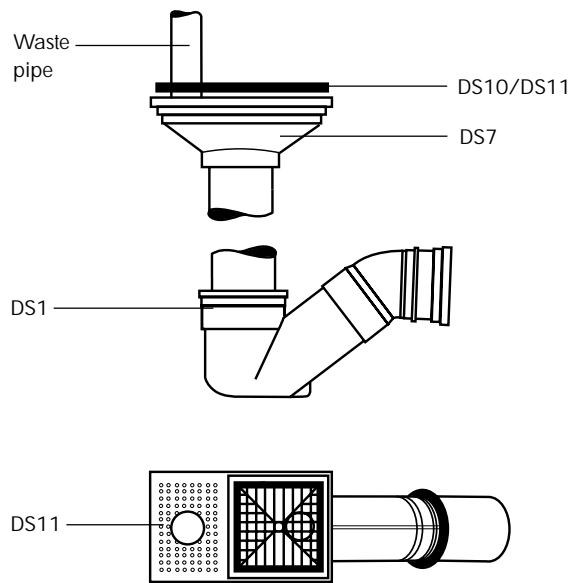
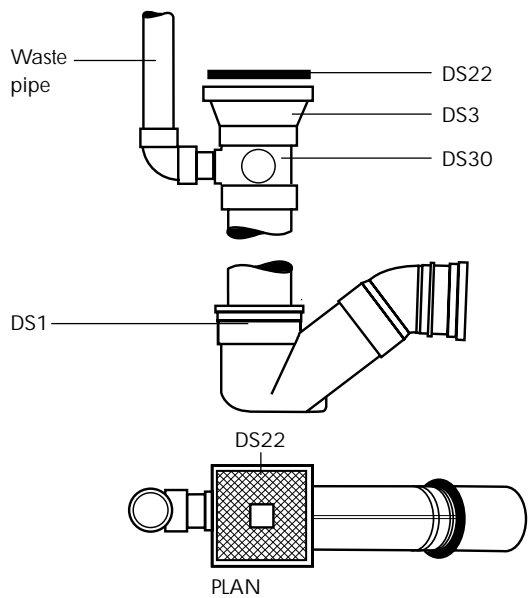
When connecting pipework to the 'P' gully traps the spigots of the pipes should be well chamfered (approximately 30° to the centre line of the pipe) and the recommended lubricant applied to the pipe. The pipe spigot is inserted into the 'P' gully trap socket to the correct depth, making allowance for thermal expansion.



'P' Trap DS1 to take discharge from same fittings but via back inlet hopper.

Note: 110mm access pipe obviates the need for further access until the drain connects with main run.

For details of Waste fitting, see Hunter Waste Leaflet

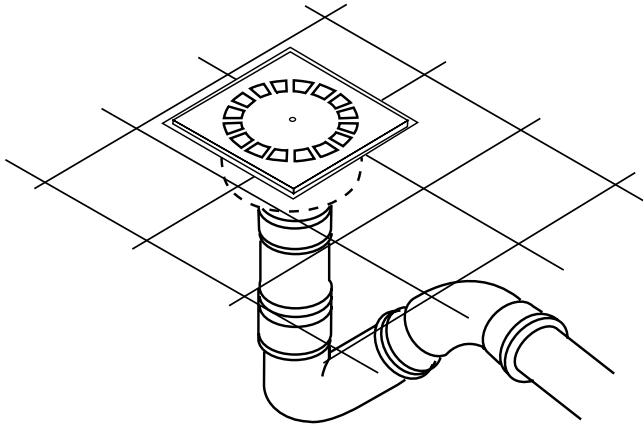


8.06

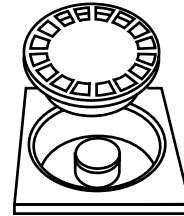
The Courtyard Gully

The Courtyard Gully

The courtyard gully (DCR300 or DCP300) is designed to drain water from paved, concreted or tarmacked areas; such as patios and driveways and when joined into foul water drainage is fitted into the Multi Gully Trap. It could also be fitted below the garden tap or in areas that you wash down regularly. The grating is easily lifted to allow the removal of debris from its built in silt trap.



TRAPPED INSTALLATION FOUL WATER CONNECTION



- For domestic driveways, patios, commercial garages, wash down areas and pedestrian thoroughfares
- Integral silt trap
- Suitable for an average family car (Max 1 tonne wheel load at 18MPH)
- Not affected by sunlight, resists most chemicals

