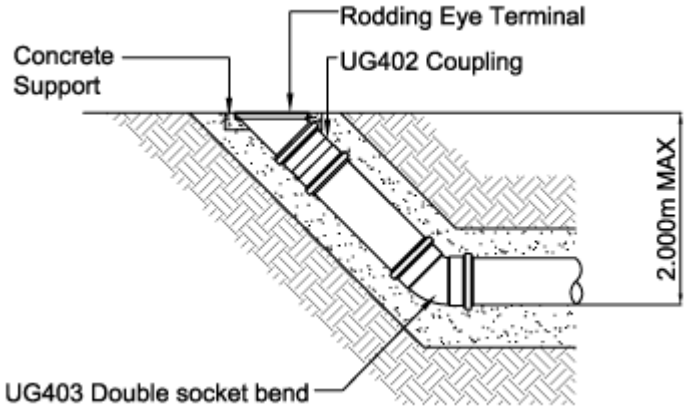
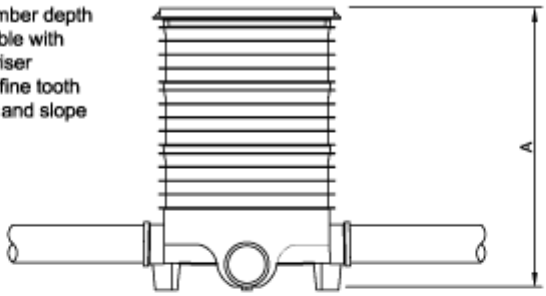
Rodding Eye Details



Inspection Chambers

CHAMBER DEPTHS

Where the required chamber depth falls between that available with standard risers, the top riser can be cut back using a fine tooth saw to the finished level and slope of surrounding ground.



		Dim 'A'			Dim 'A'
Shallow Insp. Ch. Base	+ 1 Riser	314mm	460Ø Insp. Ch. Base	+ 2 Risers	605mm
	+ 2 Risers	457mm		+ 3 Risers	803mm
	+ 3 Risers	600mm		+ 4 Risers	1000mm
				+ 5 Risers	1198mm

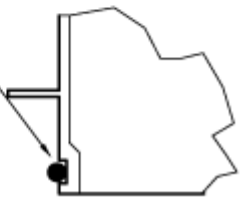
Where the depth of the inspection chamber exceeds 1.20m, a 460mm diameter Non-man Entry chamber is available, which can be used up to depths of 4.00m

JOINTING RISERS

For jointing 320mm dia. risers, a continuous bead of silicone rubber sealant (min 5mm) should be applied to the groove in the base of the side riser.

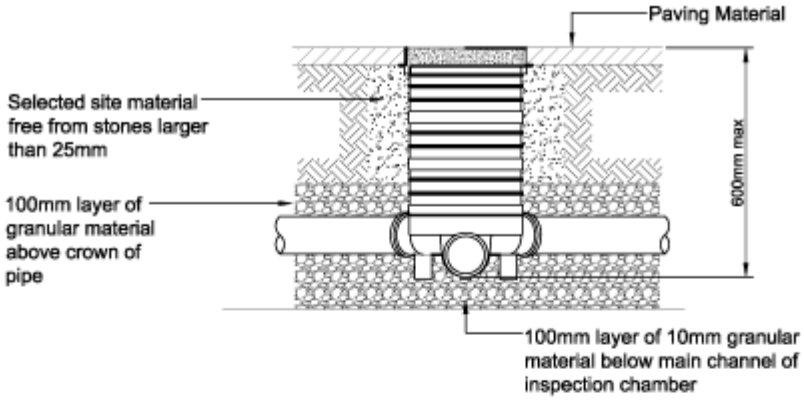
Section through base of 320mm dia. riser

For jointing 460mm dia. risers, use sealing ring code UG488 in the groove around the bottom edge of the riser

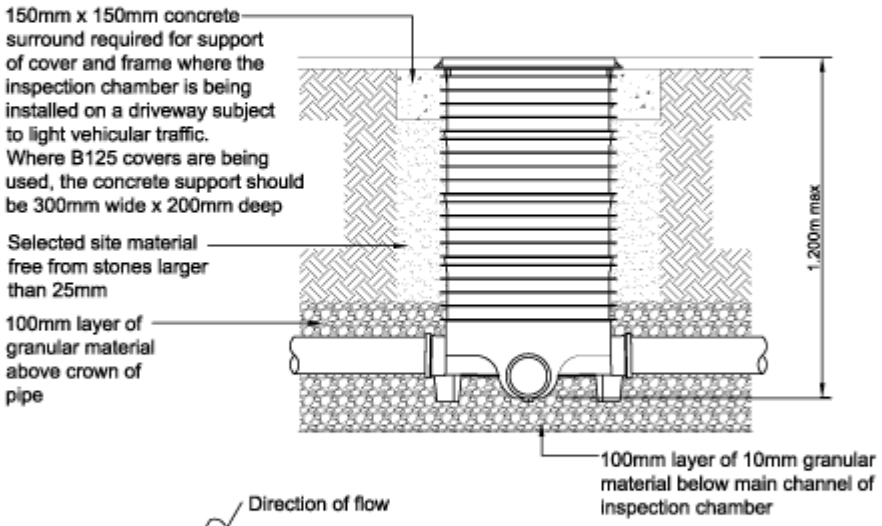


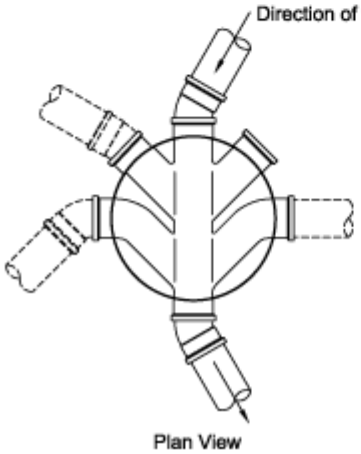
Section through base of 460mm dia. riser

SHALLOW INSPECTION CHAMBER DETAIL



460mm dia. INSPECTION CHAMBER DETAIL





1. In all installations, the main channel of the inspection chamber should always be used. Where the chamber is being used as a change of direction for the drainage system, short radius bends of 11¼°, 15°, 30° and 45° can be used in the inlet and outlet to achieve the required angle.
2. Side inlet branch connections enter the inspection chamber approx. 55mm above the invert of the main channel
3. 320mm dia. chambers are supplied with 2no. blanking plugs for the side inlets and 460mm dia. chambers are supplied with 3no. blanking plugs.

Installation Procedures

1. Excavate to the required depth for the Polypipe Non Man Entry Deep Inspection Chamber system allowing for space around the unit to work in.
2. Install the chamber base unit on at least 100mm of granular material.
3. Connect up all pipe work connections to the base using the recommended procedure for ring seal and Polysewer structured wall pipes.
4. Backfill using as dug or granular material up to a point just below the top of the base unit allowing room to connect the next riser section.
5. Ensure both the base riser sections are all clean and free from any dirt and debris and using the riser sealing ring (UG488) connect riser sections (available in 215, 415, 830 and 1740mm sections) together. Refer to Product Selection Guide for riser requirements.
6. All riser sealing rings and riser sockets should be lubricated before installation.
7. Use the FRK503 fixing kit to secure riser sections together in three equi-spaced positions.
8. Continue to backfill just below finished ground level.
9. Lubricate the frame seal and install to the required depth and angle. The ICDC1 sealed polypropylene cover and frame allows 90mm telescopic adjustment and 10° angular adjustment and has a reduced diameter of 350mm in accordance with Approved Document H to the Building Regulations 2000 (see also BS EN 752).
10. Ensure that all four screws in the cover and frame are screwed down.
11. Use the frame to riser fixing kit, FRK502 to fix the frame to the riser in four positions.
12. If installing in a driveway a concrete surround should be installed around the frame to a depth of 225mm and width of 300mm to provide support to the cover and frame.

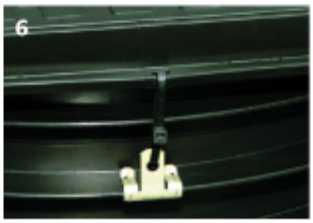
Attaching fixing kit clip (FRK503)

Clips should align for fixing

Pass jointing tie through clips and tighten

The Risers are now secure

Cover and Frame fixing procedure as above (FRK502)

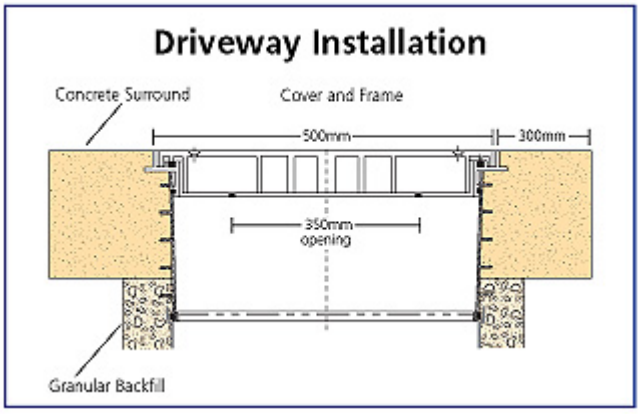


Frame secured to Riser

Test Procedure

Testing should be carried out in accordance with BS EN 1610, as follows:

1. Remove the cover from the chamber.
2. Connect drain rods together to reach the required depth complete with a double worm attachment on the end.
3. By opening the Schrader valve and applying pressure remove as much air as possible from the test bag.
4. Wind the neck of the test bag into the double worm attachment until it is secure within the attachment.
5. Ensuring that the valved end of the hose does not fall down the chamber, lower the bag down the chamber and into the channel section of the pipeline to be tested. The bag should be inserted down the pipeline as far as possible using the channel section as a guider.
6. It is advisable to leave the rod attached until such time as the bag is inflated. This will assist in keeping the bag in position. Use a bicycle pump to inflate the bag observing the manufacturers maximum pressure recommendations.
7. Once the bag has been inflated and a steel drain plug and manometer is in place at the other end of the pipeline the air test can be applied in accordance with BS EN 1610.
8. Once the air test is complete remove the bag by connecting the double worm attachment, using the hose as a guider down the chamber. Remove as much air as possible from the bag and use the rod/double worm attachment to free the bag from the pipeline. Remove all test equipment from the chamber.



Product Selection Guide														
	code	depth (mm)												
		1300	1400	**1600**	1800	**2000**	2200	**2500**	2600	**2900**	3100	**3300**	3500	**3800**
Base	ICDB1, ICDB2 or ICDB3	1	1	1	1	1	1	1	1	1	1	1	1	1
1 Riser - 215mm	ICDR1	1		1		1		1		1		1		1
2 Riser - 430mm	ICDR2		1	1			1	1			1	1		
4 Riser - 860mm	ICDR4				1	1	1	1					1	1
8 Riser - 1720mm	ICDR8								1	1	1	1	1	1
Sealing Rings	UG488	1	1	2	1	2	2	3	1	2	2	3	2	3
Riser Fixing Kits	FRK503	1	1	2	1	2	2	3	1	2	2	3	2	3
Cover & Frame	ICDC1	1	1	1	1	1	1	1	1	1	1	1	1	1
Frame Fixing Kits	FRK502	1	1	1	1	1	1	1	1	1	1	1	1	1

The ICDC1 Cover and Frame also allows 90mm telescopic adjustment and 10° angular adjustment.

Covers and Frames

It is important to select a cover and frame with a suitable load classification for the location of the chamber. l classifications are as follows:

(A) Equivalent to Class A15 load category of BS EN 124:1994 (Pedestrians and Pedal Cyclists only)

(A+) Tested to withstand 35Kn test load (Light vehicular traffic on domestic drives)

(C) = Tested to withstand 10Kn test load (non-vehicular traffic only)

320mm dia. Covers & Frames	**460mm dia. Covers & Frames**
UG439 Circular Concrete Cover & PP Frame (C)	UG497 Circular Concrete Cover & PP Frame (A)
UG499 Circular Concrete Cover & PP Frame (C)	UG419 Cast Iron Cover & Frame (A)
UG436 Aluminium Sealed Cover & Frame (C)	UG444 Cast Iron Cover & PP Frame (A)
UG501 Circular PVC Sealed Cover & Frame (C)	UG511 Circular PP Cover & Frame (A+)
UG502 Square PVC Sealed Cover & Frame (C)	UG512 Square PP Sealed Cover & Frame (A+)

Where a heavier duty cover is required, UDC700 (320mm) and UDC750 (460mm) ductile iron covers and frames are available to BS EN 124/B125 tested to wisthand 125Kn test loads.

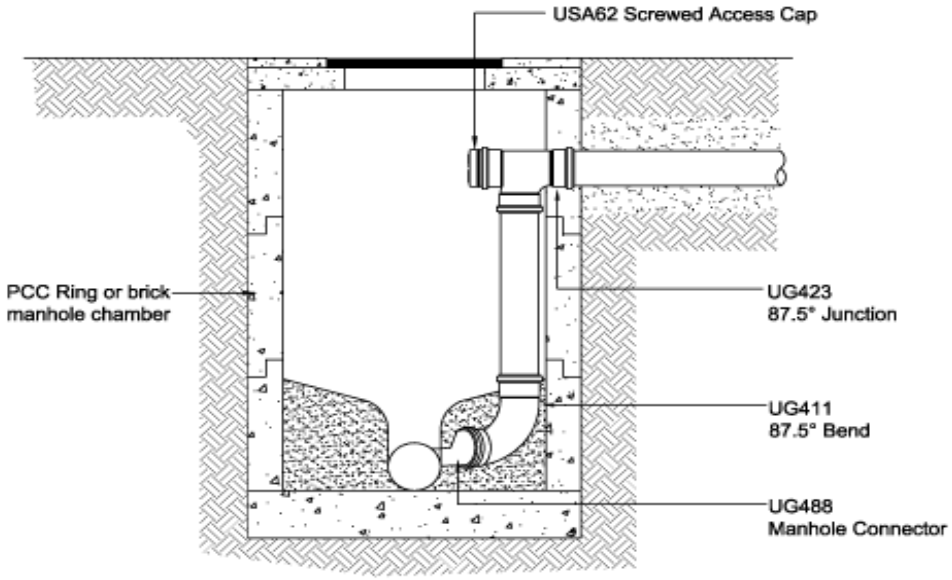
URP720 (320mm) and URP760 (460mm) galvanised steel recessed pavior covers are available which will withstand a 100Kn test load.

Covers for Internal Use

The current Building Regulations do not require that internal inspection chambers have a double seal cover. Consequently, any of the sealed covers detailed above are suitable for internal use.

Backdrop Manholes & Yard Gullies

1. Internal Backdrop Manhole Detail



2. Yard Gully Detail