




Protect the environment.
Dispose of unclean water and waste responsibly.

BiO DRAINAGE & SEWERAGE FITTINGS




DRAINAGE BEND




160 mm x 88°	63 mm x 88°
110 mm x 22.5°	50 mm x 88°
110 mm x 45°	40 mm x 88°
110 mm x 88°	

DRAINAGE "Y" JUNCTION




110 mm x 45°
50 mm x 45°
40 mm x 45°

DRAINAGE BEND WITH CLEANING EYE




160 mm x 88°	50 mm x 88°
110 mm x 88°	40 mm x 88°
63 mm x 88°	

DRAINAGE "Y" JUNCTION WITH CLEANING EYE



110 mm x 45°
50 mm x 45°
40 mm x 45°

DRAINAGE SWEPT "T"



110 mm x 88°
50 mm x 88°
40 mm x 88°


MANHOLE & GRATIN



500mm Gratin
234mm
Manhole 240mm
300mm
410mm

Gratin	500mm x 234mm
Manhole	410mm x 300mm x 240mm, 110mm

DRAINAGE SWEPT "T" WITH CLEANING EYE




110 mm x 88°
50 mm x 88°
40 mm x 88°

PLUG CONNECTOR, DRAINAGE GULLY DISH & GRATE, FLOOR TRAP



Plug Connector	110 mm x 50 mm x 50mm 110 mm x 50 mm x 40mm
Drainage Gully Dish & Grate	110mm
Floor Trap	50 mm x 40 mm x 40 mm x 40 mm

SEWERAGE BEND ONE SIDE SOCKET



SOLVENT SOCKET	RUBBER RING SOCKET
110 mm x 11.25°	110 mm x 11.25°
110 mm x 22.5°	110 mm x 22.5°

SEWERAGE INSPECTION JOINT



RUBBER RING SOCKET
110 mm

SEWERAGE BEND BOTH SIDE SOCKET



RUBBER RING SOCKET
110 mm x 60°
110 mm x 88°

SEWERAGE INSPECTION BEND



RUBBER RING SOCKET
110 mm x 45°
110 mm x 90°

SEWERAGE "Y" JUNCTION



RUBBER RING SOCKET
110 mm x 45°

SEWERAGE INSPECTION "Y" JUNCTION



RUBBER RING SOCKET
110 mm x 45° Left Hand
110 mm x 45° Right Hand

SEWERAGE "T" JUNCTION



RUBBER RING SOCKET
110 mm x 88°

WC CONNECTOR



110 mm

SEWERAGE SYSTEM

ANTON uPVC sewerage system provides a range of pipes and fittings to the domestic and industrial sewers and drains.

ANTON uPVC sewerage pipes and fittings:

- * are made to precise standards providing smooth internal surface to give good hydraulic performance.
- * are unaffected by normal soil conditions and most effluents.
- * reduces the cost of sewerage reticulation without reducing the performance standards.

ANTON uPVC PIPES FOR SEWERAGE SYSTEM

Pipes of required thickness for the required diameter of pipe for you sewerage system, can be selected from the table given in page 4 (pressure pipes and fittings catalog).

All sewerage pipes are socketed at one end and chamfered at the other end.

ANTON SEWERAGE FITTINGS SPECIAL FEATURES

Anton uPVC sewerage fittings are made to precise standard to provide a high quality performance in sewage transportation. Their special features are:

- ✘ Surfaces of fittings are clean and smooth.
- ✘ Joints are step free and gap free.
- ✘ The rubber ring jointing system has been thoroughly researched and tested and provides high resistance to root penetration and infiltration.
- ✘ Cleaning eyes on fittings facilitates cleaning or clearing of obstructions with the pipe or fitting.

Anton sewerage fittings has specially designed rubber ring sealing jointing system which provides a maximum sealing and pressure resistance to the pipe joint.

ANTON uPVC Drainage and Sewerage Pipes & Fittings Conform to  Standard.

DIMENSIONS OF SEWERAGE AND DRAINAGE PIPE AND FITTING SYSTEMS (As per SLS 1325 Standard)

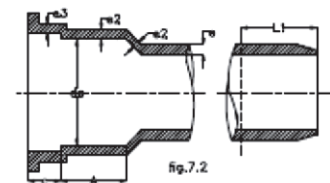
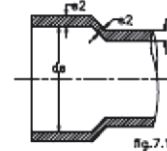


Table 1 Dimensions of Pipes

Nominal Diameter	Outside Diameter	Thickness
40	40.0-40.20	3.0-3.5
50	50.0-50.2	3.0-3.5
63	63.0-63.2	3.0-3.5
110	110.0 - 110.3	3.2 - 3.8
160	160.0 - 160.4	3.2-3.8

Table 2 Dimensions of solvent cement fittings

Nominal	Wall Thickness (Minimum)		Mean Inside Diameter of Socket ds	Socket Length (min) L2	Angle of Bend
	e	e2			
40	3.0	1.95	40.1-40.4	26	45°, 88°
50	3.0	1.95	50.1-50.4	30	45°, 88°
63	3.0	1.95	63.1-63.4	36	45°, 88°
110	3.2	2.4	110.2-110.6	48	11°, 22°, 45°, 60°, 88°
160	3.2	2.4	160.3-160.8	58	88°

Table 3 Dimensions of Ring Seal Socket and Spigots Fittings

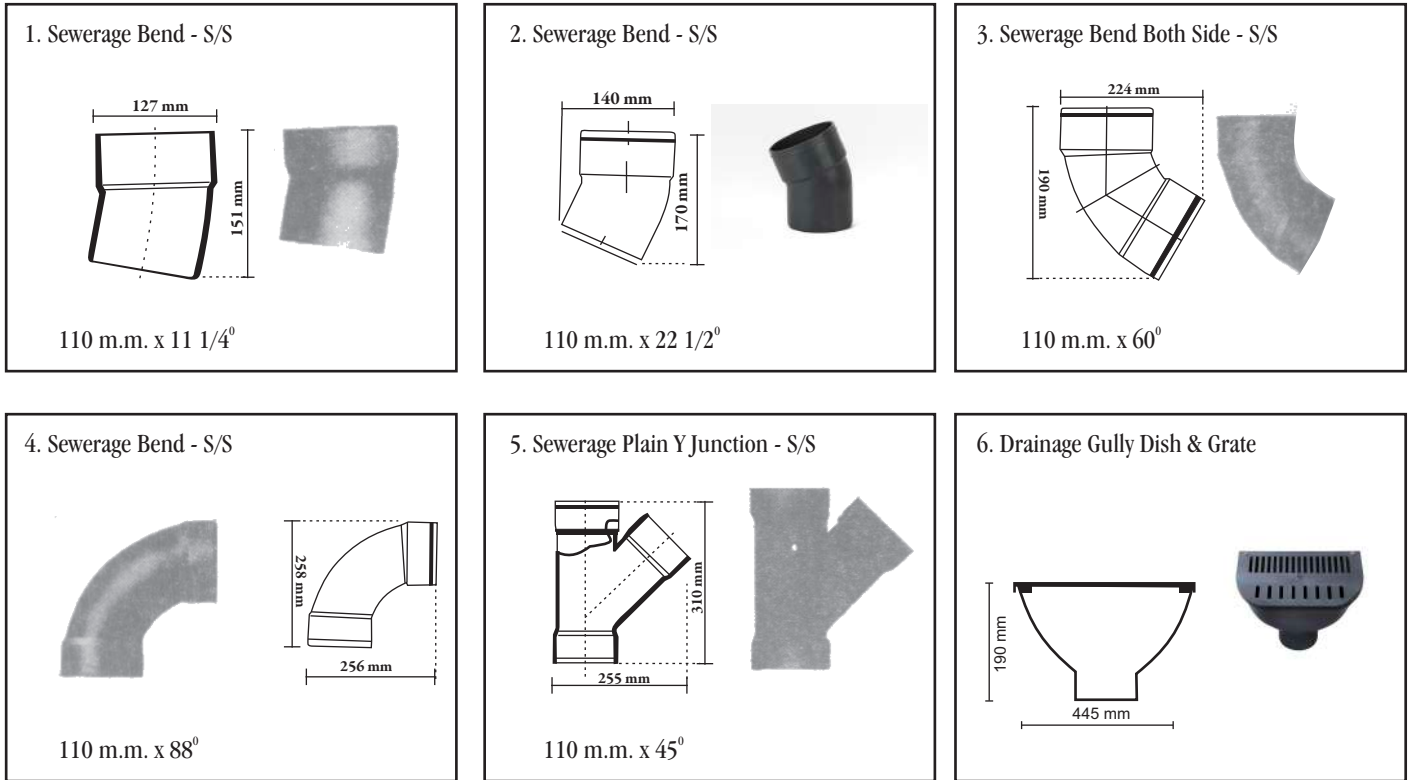
Nominal Size	Wall Thickness (Minimum)			Mean Inside Diameter of Socket (min)	Length of Socket and Spigots		
	e	e2	e3		A(min)	C(max)	L(min)
110	3.2	2.9	2.4	110.4	40	26	60

All dimensions are given in millimeters

ANTON SEWER & DRAIN FITTINGS

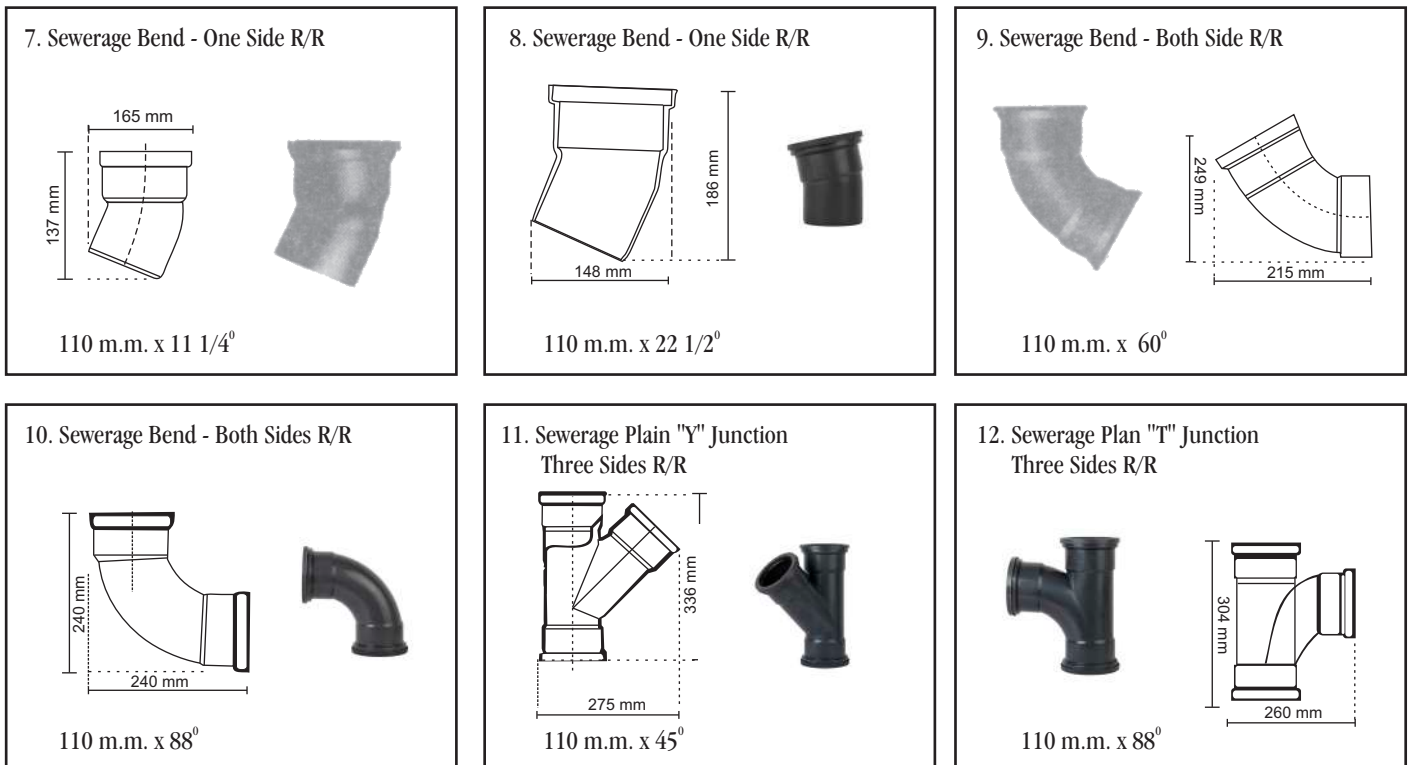
Solvent Cement Joints

fig. 1



Fittings with Rubber Ring Socket


fig. 2



Rubber Ring Socket Fittings with Inspection Eye


fig. 3

13. Sewerage Joint
With Cleaning Door
Both Sides R/R



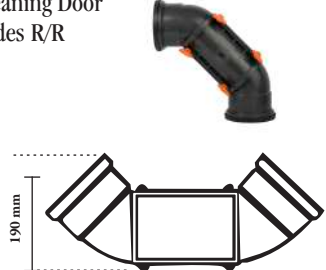
110 m.m.

14. Sewerage Bend
with Cleaning Door
Both Sides R/R



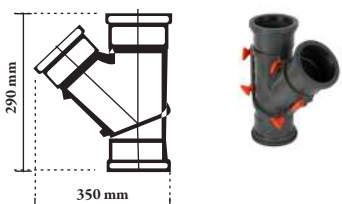
110 m.m. x 45°

15. Sewerage Bend
with Cleaning Door
Both Sides R/R



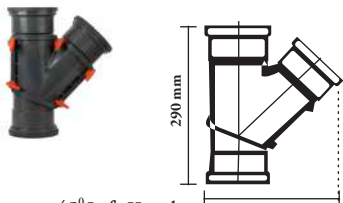
110 m.m. x 90°

16. Sewerage "Y" junction with
Cleaning Door
Both sides R/R



110 m.m. x 45° Right Hand

17. Sewerage "Y" Junction
with Cleaning Door
Three Sides R/R

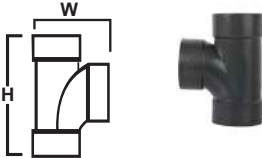


110 m.m. x 45° Left Hand

fig. 4

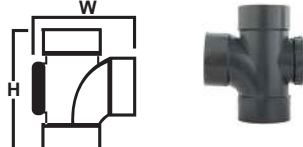
Drainage Fittings

18. Drainage Swept "T"



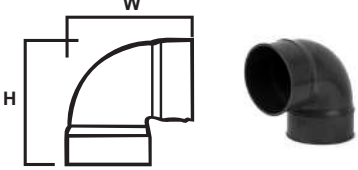
	W	H
40 mm x 88°	80	98
50 mm x 88°	94	117
110 mm x 88°	193	250

19. Drainage Swept "T" with
Cleaning Eye



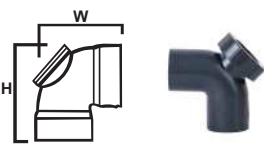
	W	H
40 mm x 88°	104	98
50 mm x 88°	117	117
110 mm x 88°	205	250

20. Drainage. Bend



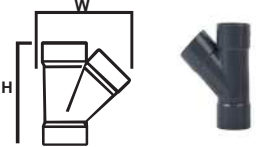
	W	H
40 mm x 88°	104	98
50 mm x 88°	103	103
63 mm x 88°	117	117
110 mm x 45°	206	251
110 mm x 88°	205	250
160 mm x 88°	207	252

21. Drainage Bend with
Cleaning Eye



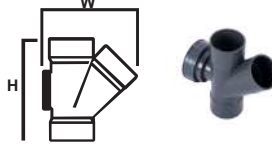
	W	H
40 mm x 88°	100	100
50 mm x 88°	116	116
63 mm x 88°	130	130
110 mm x 88°	185	188
160 mm x 88°	270	270

22. Drainage "Y" Junction



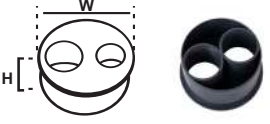
	W	H
40 mm x 88°	92	120
50 mm x 88°	114	144
110 mm x 45°	234	276

23. Drainage "Y" Junction with
Cleaning Eye



	W	H
40 mm x 45°	120	122
50 mm x 45°	130	144
110 mm x 45°	253	276

24. Plug



	W	H
110 mm x 50 X 40	120	50
110 mm x 50 X 50	120	50

TYPICAL STACK LAYOUT

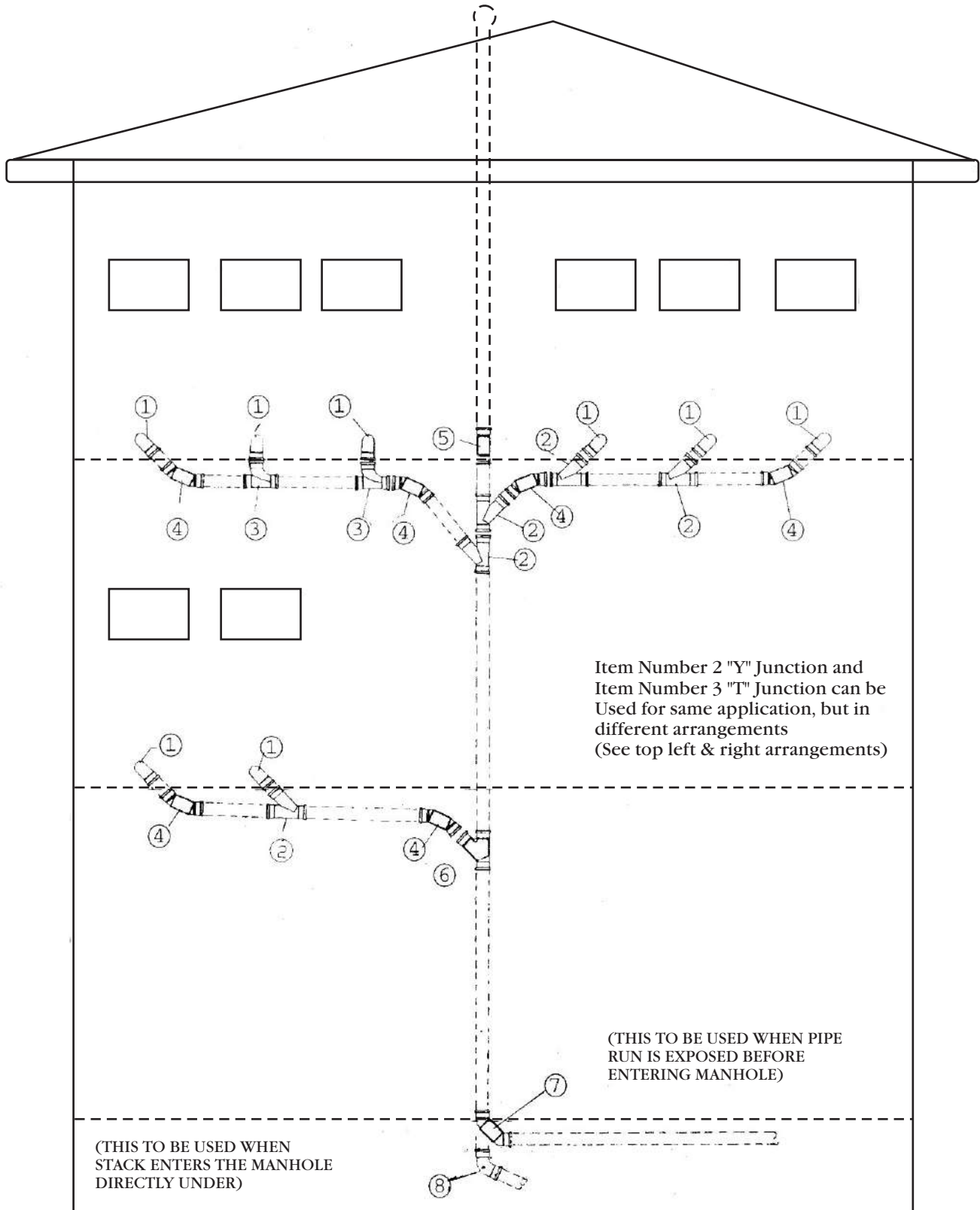
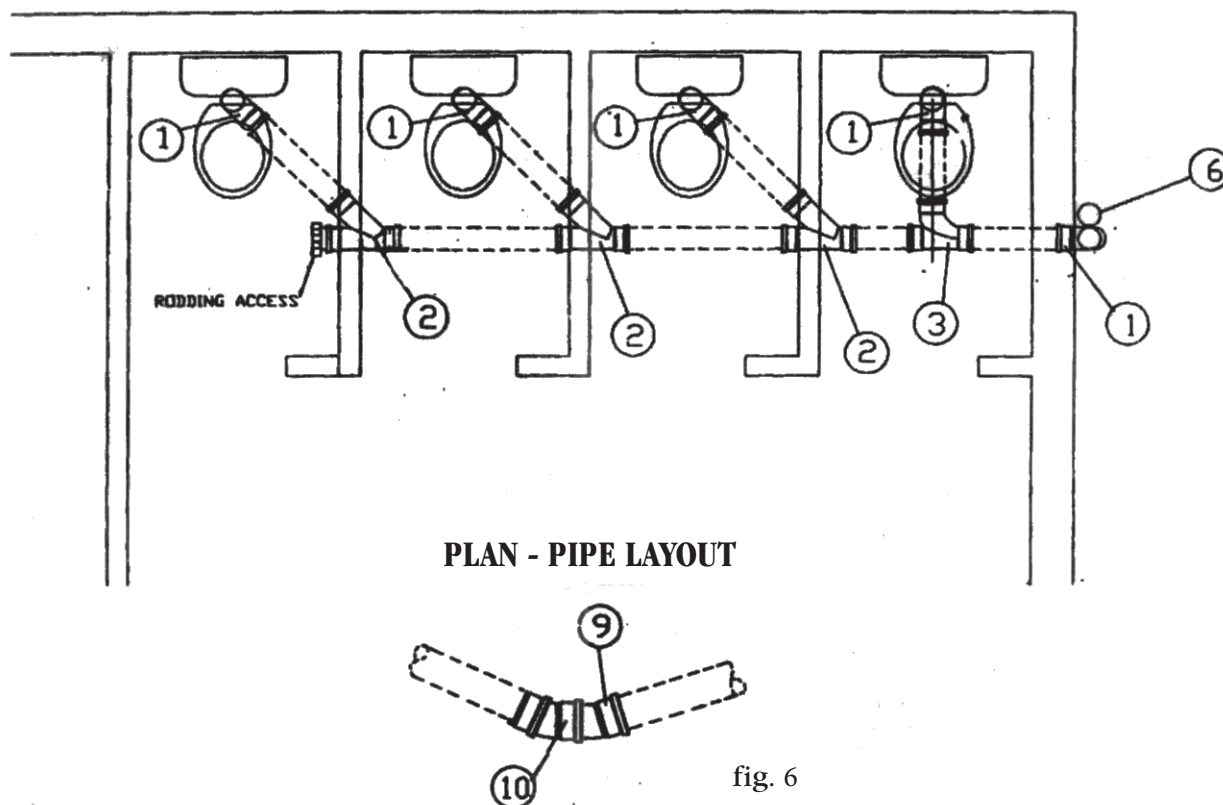


fig 5



TYPICAL USE OF SHALLOW BENDS FOR PIPE DEVIATION

1. BEND 110MM X 88°
2. PLAIN Y JUNCTION
3. PLAIN T JUNCTION 110mm⁰
4. INSPECTION BEND 110mmx45°
5. INSPECTION JOINT 110mm
6. INSPECTION 'Y' JUNCTION 110mm x 45° L/H (*)
7. INSPECTION BEND 110mm x 90°
8. BEND 110mm x 60°
9. BEND 110mmx 22 ½°
10. BEND 110mm x 11 ¼°

For the sewage transportation a proper installation of a pipe system is required.

Select pipe of dia 110 mm with the recommended thickness (Given in table 1) and fittings according to the requirements of the plumbing layout. Proper layout has to be designed according to the load of sewer, number of branches and the locations of connecting points of the sewerage line.

*LEFT HAND & RIGHT HAND UNITS AVAILABLE