

SWR

PREMIUM FITTINGS FOR SEWERAGE APPLICATIONS

BEND 87.5° <table border="1"> <thead> <tr><th>D</th><th>H</th><th>A</th><th>B</th></tr> </thead> <tbody> <tr><td>75</td><td>130</td><td>91.3</td><td>146</td></tr> <tr><td>90</td><td>163.5</td><td>106</td><td>153.4</td></tr> <tr><td>110</td><td>185.4</td><td>127</td><td>185</td></tr> <tr><td>160</td><td>260</td><td>179</td><td>260</td></tr> </tbody> </table>	D	H	A	B	75	130	91.3	146	90	163.5	106	153.4	110	185.4	127	185	160	260	179	260	DOOR BEND 87.5° <table border="1"> <thead> <tr><th>D</th><th>H</th><th>A</th><th>B</th><th>C</th></tr> </thead> <tbody> <tr><td>75</td><td>130</td><td>91.3</td><td>146</td><td>80</td></tr> <tr><td>90</td><td>163.5</td><td>106</td><td>153.4</td><td>80</td></tr> <tr><td>110</td><td>185.4</td><td>127</td><td>185</td><td>110</td></tr> <tr><td>160</td><td>260</td><td>179</td><td>260</td><td>110</td></tr> </tbody> </table>	D	H	A	B	C	75	130	91.3	146	80	90	163.5	106	153.4	80	110	185.4	127	185	110	160	260	179	260	110	SINGLE T <table border="1"> <thead> <tr><th>D</th><th>H</th><th>A</th><th>B</th></tr> </thead> <tbody> <tr><td>75</td><td>190.3</td><td>133</td><td>91.3</td></tr> <tr><td>90</td><td>224.9</td><td>163</td><td>106</td></tr> <tr><td>110</td><td>259.9</td><td>194</td><td>127</td></tr> <tr><td>160</td><td>355</td><td>258</td><td>162</td></tr> </tbody> </table>	D	H	A	B	75	190.3	133	91.3	90	224.9	163	106	110	259.9	194	127	160	355	258	162	SINGLE T WITH DOOR <table border="1"> <thead> <tr><th>D</th><th>H</th><th>A</th><th>B</th><th>C</th></tr> </thead> <tbody> <tr><td>75</td><td>190.3</td><td>133</td><td>91.3</td><td>80</td></tr> <tr><td>90</td><td>224.9</td><td>163</td><td>106</td><td>80</td></tr> <tr><td>110</td><td>259.9</td><td>194</td><td>127</td><td>110</td></tr> <tr><td>160</td><td>355</td><td>258</td><td>162</td><td>110</td></tr> </tbody> </table>	D	H	A	B	C	75	190.3	133	91.3	80	90	224.9	163	106	80	110	259.9	194	127	110	160	355	258	162	110	REDUCING T <table border="1"> <thead> <tr><th>D</th><th>B</th><th>H</th><th>A</th></tr> </thead> <tbody> <tr><td>90</td><td>50.3</td><td>224.9</td><td>106</td></tr> <tr><td>110</td><td>50.3</td><td>259.9</td><td>127</td></tr> <tr><td>110</td><td>91.3</td><td>259.9</td><td>127</td></tr> <tr><td>160</td><td>127</td><td>355</td><td>160</td></tr> </tbody> </table>	D	B	H	A	90	50.3	224.9	106	110	50.3	259.9	127	110	91.3	259.9	127	160	127	355	160
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ORI-PLAST LIMITED

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Ori-Plast®
 HEALTHY PIPES

SWR PIPES CATALOGUE

LONG-TERM COVERAGE
 FOR DRAINAGE
 AND SEWERAGE



PIPES & FITTINGS
 NO LEAD
 NO HEAVY METALS

Industry | Construction
 Real Estate | Plumbing | Sanitary
 Commercial | Residential Buildings



Quality is our Pride

Conventional cast iron & asbestos cement pipes are known to have problems like rusting and corrosion after a few years of usage. Ori-Plast uPVC SWR (Soil, Waste, Rain water) drainage systems are immune to such weaknesses and therefore are ideal for both domestic and commercial premises.

Ori-Plast offers an exhaustive range of light weight, corrosion resistant, chemical resistant and low maintenance Pipes & Fittings. They have high stability and great impact strength to resist mechanical damage in case of rough handling. These pipes also do not combust, making them a safer choice.

Ori-Plast pipes, because of stability and high impact strength are not prone to mechanical damage due to rough handling. Moreover, these pipes are rust proof and do not support combustion.

Ori-Plast pipes and fittings are the perfect combination of quality and value for money, surpassing industry benchmarks with every innovation.

THE BENEFITS

Prefixed Rubber Ring:

This ensures that the ring does not come out during installation or transportation

Socket Length Extra:

With extra length, 3m long pipe retain their exact length (i.e 3m) even after installation

Chamfered Pipe End:

Snug interference are a perfect fit for permanent joints

Light Weight:

Being light weight, these pipes are convenient and easy to handle

Corrosion Resistant:

Being non-corrosive in nature, continuous contact with water causes no damage to the material of the pipes

Chemical Resistant:

Being acid & alkali proof and resistant to oxidising and reducing agents, these SWR pipes are safer with great longevity.

Maintenance

Minor Damage: Cut a piece of pipe vertically. Apply a thin coat of PVC solvent cement around the damaged portion. Simply stick it and let it dry.

Major Damage: Cut a bigger piece. Slide one repair coupler into the lower pipe and the other into the upper pipe.

Further, these SWR pipes are



Lead & Heavy Metals Free



Light Weight



Cost Effective



Long Lasting



Rodent Repellant



Non-Conductive

THE SANITATION UPGRADATION

Single Stack System

In this system, only one main vertical pipe is provided to collect night soil and waste matter from respective branch pipes. The main pipe is ventilated by providing a cowl at the top, though a vent pipe may also be provided as an added security. Suitable for small housing schemes, this system involves two different pipelines.

Double Stack System

Being the best and most advantageous type of sanitation system, two sets of vertical pipes are laid - one for drainage of night soil and the other for waste matter. The soil fixtures like latrines and urinals are all connected through branch pipes to the vertical soil pipe (110mm size), while the sullage fixtures such as baths, sinks and wash basins are connected through branch pipe to the vertical waste pipeline (75mm size). Ventilation of both these lines by a separate vent pipeline is recommended to prevent the accumulation of foul gases. This system has four different pipelines and is suitable for big housing complexes.



Easy steps to install Ori-Plast SWR pipes



Cutting of Pipes

Cut the SWR pipes in square form with a toothed saw. A square shape meter can be used for the cutting.



Deburring Pipe ends & Chamfering

The burrs should be removed from both ends- outside & inside. The outer end should then be suitably chamfered by using a file to ease entry of the pipe into the socket end.



Checking the Socket End

Clean the socket end with the help of a piece of cloth to remove loose dirt, especially from the pre-fit PP Rubber Ring. Apply Ori-Plast Rubber Lubricant to smoothen the socket.



Rubber Lubricant

In order to insert the pipe into the socket end easily, enough rubber lubricant must be applied both on the pipe end and the rubber washer.



Assembly

The pipe is inserted completely into the socket. The pipe is withdrawn by 10-12 mm from the socket to accommodate for the thermal expansion. The pipe clips are fixed on the wall to hold the assembly in position, before moving to other sets of joints.



INSTALLATION PROCEDURE

SITE INSTRUCTIONS

Laying Instructions & Joining Procedures

Clean outside the pipe's spigot end & inside the sealing groove of the fitting. Apply the lubricant uniformly to the spigot end, sealing ring and pass the spigot end into the socket until fully inserted. Mark the position of the socket edge with a pencil and withdraw the pipe to accommodate for thermal expansion space.

Spacing Of Pipe Clips

With horizontal runs, the pipe clips should be placed at intervals of less than 10 times the outside diameter of the pipes. Vertical lines are spaced at 1m to 2m depending on the pipe diameter.

Concealed Installation

For concealed installation of drain lines, slots are made on the wall/concrete to allow stress-free installation. To insert pipes & fittings into the slots without a cement base, a thin coating of PVC solvent cement should be applied and then dry sand should be sprinkled after that. Allow it to dry. This forms a good base for proper cement fixation. This process is repeated while joining PVC material to CI/AC materials. Check on the leakage before concealing the system. Branch lines are provided to existing SWR piping systems using Ori-Plast fittings such as Y or T. Single or double repair couplers are used for this purpose.

Surface Installation

Ori-Plast Pipe Clips must be used with an approximate spacing of 900mm. For horizontal laying and 180mm for vertical laying.

Underground Installation

For laying uPVC SWR pipes in trenches, the trench width should not be less than pipe diameter plus 300mm for trench depth of 600-1000mm, depending upon the pipe size and slope required for gravity flow. Care should be taken to prevent dirt from entering the

joints. Pipe lines should not be laid on submerged rock and should be mandatorily tested before filling back the trench.

Testing Before Use

Ori-Plast uPVC SWR drainage system can be directly put to use immediately after installation. For testing, seal hermetically all openings are to be tested. The water level mark should ideally be raised to a height of 3m above the highest point of the section being tested, or as the Inspection Officer may direct. Every joint should be examined for leaks before the system is put into use.

SWR FITTINGS



Sweep Tee



Door Bend