

# Nu-Drain<sup>TM</sup>

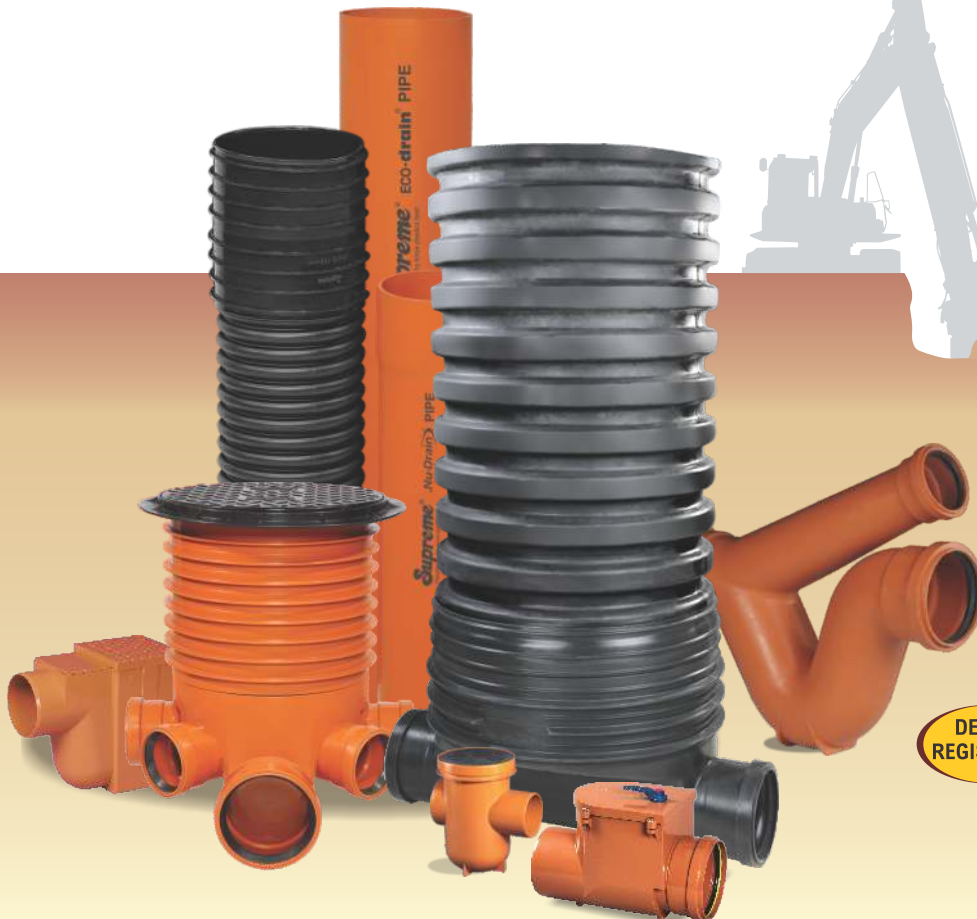
## Underground Drainage and Sewer System

*... an underground revolution*

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has been a torch bearer in the transition from conventional to advanced plastic piping products in the country. Its customer centric approach fuels its research for designing unmatched quality products to meet the aspirations of its quality conscious customers. The innovative product portfolio offered by Supreme is extensive in range and application and comprises variety of pipes and vast spectrum of fittings totaling over 8000 diverse products.

Nu-Drain underground drainage system is one among the many innovative products offered by the Supreme. It is a breakthrough in underground sewerage system technology

giving several advantages over erstwhile underground sewerage products. Supreme Nu-Drain is totally free from different problems that are often associated with the conventional brick masonry chambers and stoneware or concrete pipes. This promising system has the potential to change the face of sanitation, construction and environment in the country and will certainly enhance the quality of life by improving the quality of sanitation. Nu-drain comprises complete piping system, different sizes of inspection chambers, manholes, covers and accessories. Supreme is the pioneer in introducing this value added system and the only company to offer complete underground drainage and sewerage solution with required technical support.



DESIGN  
REGISTERED



**Jeevan bhar ka saath...**

## The system

Supreme underground drainage and sewerage system has been designed with a view to modern man's inclination towards health, hygiene and his aversion to filth and pollutants. It is hence important that the system should be of good quality and should be able to function year after year without any leakage or defects. It becomes unpleasant and expensive to address the problems that arise in conventional underground products. Such problems may happen due to poor product quality or due to faulty construction and outdated technology.

Supreme Nu-Drain is intended to carry soil and waste from building to roadside sewers or drains and from there to the treatment plant or disposal point. This system offers multiple advantages over traditional drainage products for all sorts of drainage and sewerage applications and installations. Nu-Drain is highly recommended for buildings where hygiene is a prerequisite such as hospitals, hotels etc. This can also be used for rainwater collection and disposal, including rainwater harvesting. Thus, Nu-Drain is a complete solution for

underground drainage and sewerage application. Being 100% watertight, it is free from ingress and seepage of water and is considered to be the most hygienic. Unlike conventional drainage products, it is free from pollution of underground water, soil or ill effects on building foundations. In this fast age, this product has emerged as blessing to the housing and construction sector. Due to tremendous saving in time and labour, installation of this system is quite simple and fast. The choice of the raw material, the structural accuracy and the strict quality control imparts high degree of reliability. As a result Nu-Drain is now approved by MCGM and emerged as a superior substitute to conventional products.

### Product specifications

Plastic moulded inspection chambers are made as per BS and EN standards. Solid wall uPVC Nu-Drain pipes confirms to IS:15328-2003, Hi-tech structured wall pipes viz. Eco-drain, Foam Core and Ultra Plus DWC pipes conforms to IS:16098 and meets all the test requirements of European and International standards.

## Features and benefits

**Great flexibility** - Due to availability of readymade inspection chambers and manholes along with long lengths of lighter weight pipes and different components, installation of this system is very convenient and fast.

**Perfect hydraulic properties** - Mirror smooth inside surface of the pipes and streamline design of the chambers and manholes greatly reduces the possibility of blockages and maximizes the flow characteristics. As a result, carrying capacity of these pipes can be increased by 40% over concrete pipes.

**Great strength** - Products are sufficiently durable to meet site-loading requirements.

**100% watertight system** - Pipe, riser or the shaft connection with the chamber base is absolutely watertight and unique design of pipe joints with click ring and sealing ring makes the system completely leak proof.

**Hygienic and safe** - Trouble free performance of the joints without blockages and leakages ensure high standards of hygiene.

**Minimum excavation cost** - Because of simple jointing technique, trench width can be kept to a minimum and smoother bore of the pipe allows high flow rates at relatively flatter gradients.

**Different flow profile designs** - Inspection chambers are available in different flow profiles/configurations of inlet(s) and outlet in different sizes to suit the site requirements. Inlets that are not needed can be closed with the help of blanking plugs.

**Minimal maintenance** - Optimum functional qualities and good hydraulic properties play an important part in reducing the need for jetting and other forms of maintenance and therefore operational costs are considerably reduced.

**Longer life and overall economy** - It is free from problems like corrosion and susceptibility to chemical reactions and strong enough to carry soil and traffic loads. Nu-Drain is sufficiently durable and offers long and trouble free service life.

## Product range

Supreme Nu-Drain Underground Drainage and Sewer System comprises the following components

1. Different sizes of Ultra Inspection Chambers and Manholes
2. Piping system with different structured wall pipes, complete fittings and accessories including traps
3. Covers in different sizes and load classes

### Ultra 250

This unique inspection chamber of 250x110mm in uPVC is featured with the provision of 75mm trap. One can, therefore

directly combine soil and waste lines to reduce the cost. This is also available without trap and hence customer has choice to use this chamber as per site requirements. This small version of inspection chamber is recommended for small bungalows/houses where maximum invert depth is up to 600mm.

### Ultra 315, Ultra 355 and Ultra 450

Ultra inspection chambers in these sizes comprise chamber base, riser(s)/shaft in specially developed Polypropylene/PE grade. Covers and frame are made in composite plastic and GRP.

Entire assembly provides a completely sealed system up to ground level. It offers a wide variety of flow profiles, giving an option for all drainage applications between 110 to 200mm sizes. The choice of the different configurations provides a comprehensive, level invert system with excellent flow characteristics. The invert depth can be obtained by using multiple risers or suitable length of shaft.

Ultra 315 inspection chamber is designed to collect 110mm drains at invert depth up to 625mm using risers (max 2 risers) whereas Ultra 355 inspection chamber is designed to collect 160/110mm drains at invert depths up to 690mm by using shaft/riser(s).

Ultra 450 inspection chamber is designed to provide the method of collecting 110/160/200mm drains at invert depths up to 1280mm by using risers (max 5 risers) and 1295mm by using shaft. Concentric grooves are given on the exterior face of the riser which acts as cutting guides and shallower depths can be achieved by cutting the riser. Shaft should be cut on the top of corrugation for proper placement of the sealing ring.

### Ultra 600

The Ultra 600 inspection chamber consists of the base, corrugated shaft and adjustable telescopic adapter which provides proper seating base for GRP/SFRC ring and cover. Use of telescopic adapter is not mandatory. The Ultra 600 base with 250mm inlet(s)/outlet is available in 6 different flow configurations. All flow configurations are provided with specially designed swivel adapters which allows a free angular deflection of 7.5° from the center line in each direction. This flexibility makes it possible to directly adjust the pipe connection in the trench.

This robust chamber is suitable for installation depths from 0.8 to 5m. The shaft provides excellent resistance to ground movement and heavy traffic loads. Ultra 600 is suitable for 250mm pipes and eccentric reducers are available to connect 160 and 200mm pipes.

In addition to 600x250mm size inspection chamber, recently we have introduced inspection chamber in 600x200mm and 600x315mm sizes. This is available in four different configurations and is offered with and without integral shaft. This avoids the use of eccentric reducers while using 200mm size to further reduce the cost to the consumer. This strong and sturdy product is superior and helpful in many ways.

Simple and reliable "insitu" connections can be easily made in the shaft to create additional connections.

### In-situ adapter

Besides, inlet(s) of selected flow profile of the chambers base, additional connections can also be made through shaft or cone at different heights or angles using specially designed in-situ adapters. These adaptors are available in 75, 110, 160 and 200mm sizes which can be used for assessing any line even in post installation condition.

### Inspection Chambers: Invert depths with different combinations

Ultra chamber/manhole	Combination of base, cover/frame and riser/shaft	Invert depth (mm)
Ultra 250	Base - self invert	220
	Base with shaft length - 320mm	450
	Base with shaft length - 470mm	600
Ultra 315	Base - self invert	210 - 305
	Base with 1 riser	335 - 465
	Base with 2 risers	495 - 625
Ultra 355	Base - self invert	268 - 350
	Base with 1 riser	415 - 650
	Base with shaft length - 465mm	608 - 690
Ultra 450	Base - self invert	365 - 420
	Base with 1 riser	530 - 600
	Base with 2 risers	700 - 770
	Base with 3 risers	870 - 940
	Base with 4 risers	1040 - 1110
	Base with 5 risers	1210 - 1280
	Base with shaft length - 460mm	680 - 735
	Base with shaft length - 710mm	930 - 985
	Base with shaft length - 1020mm	1240 - 1295
	Base and shaft with 110 and/or 160mm branch	695 - 750
Ultra 600	Base - self invert	460 - 600
	Base with shaft length - 600mm	860 - 1000
	Base with shaft length - 900mm	1160 - 1300
	Base with shaft length - 1200mm	1460 - 1600
	Base with shaft length - 1500mm	1760 - 1900
	Base with shaft length - 1800mm	2060 - 2200
	Base with shaft length - 2100mm	2360 - 2500
	Base with shaft length - 2400mm	2660 - 2800

### Cover solution

Heavy weight frame and covers in composite material for Ultra 315 and Ultra 450 are designed to tilt and rotate to suit site conditions. These covers are designed for 3.5 MT wheel load and are suitable for light traffic movements. These are provided with 4 screw holes suitable for self tapping. In addition to these, sealed covers for internal use, light duty (LW) covers for pedestrian areas are also available. For heavy traffic conditions, GRP frame and covers are also made available. Besides plain covers, covers with gratings are also made available.

Recently we have introduced covers for Ultra 355 in 3.5 MT, 600x450mm in 5 MT and 300x300mm gully top covers in composite plastics.

### Hi-tech, high performance pipes

For underground drainage and sewerage application we offer almost all varieties of structured wall pipes in different sizes.

These pipes are noticeably lighter and are less expensive than any existing PVC pipe of similar stiffness and many times lighter than the concrete pipes with equivalent load carrying capacity. These pipes are made as per IS:16098 and offered in 6m length. Besides these structured wall pipes, solid wall PVC pipes conforming to IS:15328 with ISI mark and PE pipes as per IS:1433 are available in 3m and 6m lengths in different sizes.

### Eco-drain Hi-tech Structured wall pipes

These pipes have unique wall structure with number of holes in the wall thickness in longitudinal direction and are available in 110 to 400mm sizes.

### Ultra Plus DWC pipes

These pipes are not solid wall pipes but have a unique wall structure with corrugated construction externally and a glass smooth surface internally. This imparts stiffness and flexibility required to sustain dead or moving loads from the surface. Lighter than any conventional pipe it has the ability to sustain its job for years and years. Wonderful combination of lowest inner friction, smooth internal flow characteristics, high flexibility, superior strength to weight ratio and highest ability to support and distribute live and dead loads, makes it perform exceptionally well in high and low cover situations. These pipes

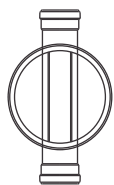
are available in 75 to 800mm sizes in SN 4 and SN 8 stiffness class. These pipes are made available in plain end form as well as with integral sockets along with necessary fittings.

Type of pipes	Pipe size (mm)	Nominal ring stiffness SN (KN/m <sup>2</sup> )
U-drain pipes	110	8
	125	4, 8
	160 to 400	2, 4, 8
Eco-drain pipes	110	8
	160 to 250	4, 8
	315 to 400	2, 4, 8
Foam core pipes	110	8
Ultraplus DWC pipes	75 to 800	4, 8

### PE pipes

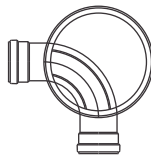
HDPE pipes are also available in 63 to 630mm sizes in PN 2.5 to PN 16 pressure classes. These pipes are manufactured as per IS:14333-1996 and are available in 6m length. The pipes are joined either by click ring type fittings or by butt welding making them absolutely watertight. These pipes are most useful in an undulating terrains.

### Ultra inspection chamber configurations and accessories



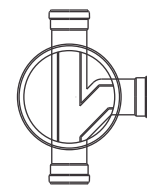
#### Straight Through

315x110x110mm  
355x160x160mm  
450x200x200mm  
600x200x200mm  
600x250x250mm  
600x315x315mm



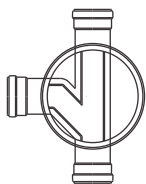
#### Left or Right Hand 90° Bend

315x110x110mm  
355x160x160mm  
450x200x200mm  
600x200x200mm  
600x250x250mm



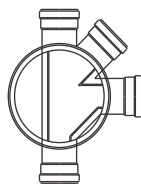
#### Right Hand 90° Junction

315x110x110mm  
355x160x160mm  
450x200x160mm  
600x200x200mm  
600x250x250mm



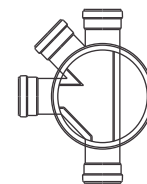
#### Left Hand 90° Junction

315x110x110mm  
355x160x160mm  
450x200x160mm  
600x200x200mm  
600x250x250mm



#### Right Hand 45° & 90° Junction

315x110x110x110mm



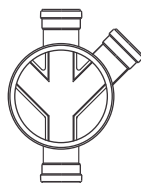
#### Left Hand 45° & 90° Junction

315x110x110x110mm



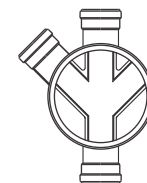
#### Right Hand & Left Hand 45° Junction

450x200x160mm



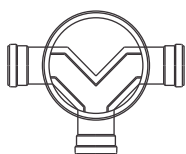
#### Right Hand 45° Junction

450x200x160mm



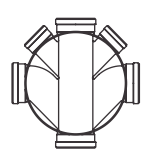
#### Left Hand 45° Junction

450x200x160mm



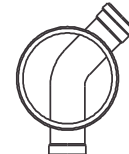
#### Two 90° Inlet Junction

315x110x110mm



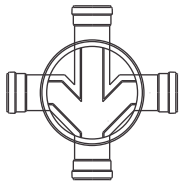
#### Ultra 450 Multiple inlets

315x110x110x110mm  
355x160x110x110mm  
450x160x160x110mm



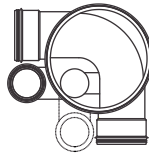
#### Right/Left Hand 45° Bend

600x250x250mm



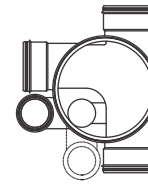
### Left & Right Hand 90° Junction (Cross)

355x160x160mm  
450x200x160mm  
600x200x200mm  
600x250x250mm



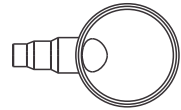
### Left Hand or Right Hand 90° Bend

250x110x110mm  
w/o Trap  
250x110x110mm  
with trap



### Left Hand or Right Hand 90° Junction

250x110x110mm  
w/o Trap  
250x110x110mm  
with trap



### Ultra 600 Blind Base

600 160/200/250

Sizes	Items
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#### Ultra 600 with Integral Shaft

600x200x200 -600mm long  
600x200x200 -1200mm long  
600x250x250 -600mm long  
600x250x250 -1200mm long  
600x315x315 -600mm long  
600x315x315 -1200mm long



Sizes	Items
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#### Ultra 600 with Integral Shaft and Bend

600x200x200 -700mm long  
600x200x200 -1300mm long



Sizes	Items
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315mm - 200mm  
355mm - 335mm



450mm - 215mm  
(with rubber seal)



Riser

600mm long  
900mm long  
1200mm long  
1500mm long  
1800mm long  
2100mm long  
2400mm long



Shaft pipe - Ultra 600

780mm long  
1080mm long  
1380mm long  
1680mm long  
1980mm long  
(with rubber seal)

Ultra 250 - 320mm  
(1½ ft invert depth)  
Ultra 250 - 470mm  
(2 ft invert depth)



Ultra 355 - 200mm  
Ultra 355 - 465mm  
Ultra 450 - 460mm  
Ultra 450 - 710mm  
Ultra 450 - 1020mm



Shaft pipe

Ultra 450 shaft  
with 110mm and  
160mm branch

Sizes	Socket type	Items
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450x400mm RxS



Shaft Adapter  
(for DWC Pipe)

780mm long  
1080mm long  
1380mm long  
1680mm long  
1980mm long  
2280mm long  
(with rubber seal)



Shaft pipe with socket - Ultra 600

600mm



Shaft Connector

Ultra 600 Spg  
(With rubber seal)



Telescopic Adaptor

250 Spg  
315 Spg  
450 Spg



Frame & Grating Cover

250mm L.W.  
450mm L.W.  
(uPVC)



Frame and Cover

Sizes	Socket type	Items
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300x300mm - 2.5 Ton



Gully Top Cover

300x300mm - 1.5 Ton



Gully Top Cover with Grating

315mm - 1.5 Ton  
355mm - 3.5 Ton  
(Round type)



\*450mm - 10 Ton  
(Round type)



\*600x450mm - 5 Ton  
(Rectangle type)



315mm - 3.5 Ton  
450mm - 3.5 Ton  
(Square type)



Composite Frame & Cover

450mm - 2.5 Ton  
450mm - 10 Ton



600mm - 10 Ton  
600mm - 20 Ton  
600mm - 40 Ton

Note: Covers with grating are also available

GRP Frame and Cover











450mm - 20 Ton  
600mm - 20 Ton













450mm - 40 Ton  
600mm - 40 Ton  
(Covers with grating)

SFRC Frame and Cover

\*Marked products will be shortly introduced.

Sizes	Socket type	Items
110x110mm (Long) 160x110mm (Long) 160x110mm (Short)	RxR	 <b>Master Trap</b>
160mm	RxSpg	 <b>Backflow Prevention Valve</b>
600x160x160	RxR	 <b>Master Trap with integrated chamber</b>
110mm <small>Note: Provided with detachable partition</small>	Spg	 <b>Square Gully Trap</b>
110mm	Spg	 <b>Square Gully Trap (IP)</b>
150x100 (6x4") 200x160 (8x6")	Spg	 <b>Bottle Gully Trap</b>
150x100x100 (6x4x4") 200x160x160 (8x6x6")	SxSpg	 <b>Bottle Gully Trap</b>
189x280mm <small>Note: Suitable for 6x4" and 6x4x4" Bottle gully trap.</small>	S	 <b>Gully Extension</b>
75mm 110mm 160mm 200mm	Spg	 <b>Insitu Adapter</b>
160x110mm 200x110mm *250x110mm *315x110mm	SpgxS	 <b>Lateral Pipe Connector</b>

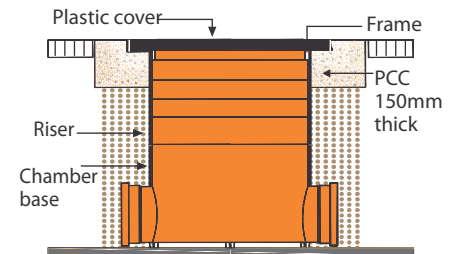
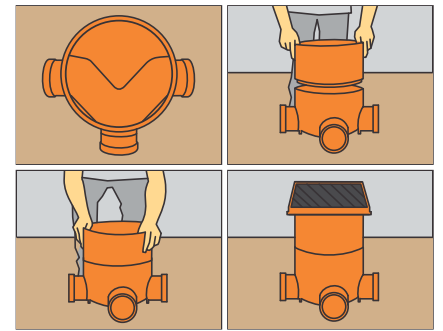
Sizes	Socket type	Items
160mm 110mm 200mm 250mm 400mm 450mm	RxR CRxCR CRxCR CRxCR RxR RxR	 <b>Coupler</b>
160mm 110mm	RxSpg CRxSpg	 <b>Bend 87.5°</b>
110mm (Short) 110mm (Long)	CRxCR CRxSpg	 <b>Swept Bend Long Radius</b>
160mm 110mm 110mm 250mm 315mm	RxSpg CRxCR CRxSpg RxSpg RxSpg	 <b>Bend 45°</b>
110mm 110mm 160mm	CRxCRxCR CRxCRxSpg CRxCRxSpg	 <b>Swept Tee</b>
160mm 110mm	RxRxSpg CRxCRxSpg	 <b>Equal Tee, Reducing Tee</b>
160x110mm	RxRxSpg	 <b>Equal Tee, Reducing Tee</b>
110mm 160mm	CRxCRxSpg CRxCRxSpg	 <b>Single Y, Reducing Y</b>
160x110mm 200x160mm 250x160mm 250x200mm 315x200mm 315x250mm	SpgxR SpgxCR SpgxR SpgxR SpgxR SpgxR	 <b>Eccentric Reducer</b>
110mm	Spg	 <b>Rodding Eye</b>

Sizes	Socket type	Items
75mm 110mm 160mm	Spg Spg Spg	 <b>Blanking Plug</b>
4"x110mm 6"x160mm	RxSpg RxSpg	 <b>Stoneware Pipe Adapter for plain end (rubber ring type)</b>
8"x200mm 10"x250mm 12"x315mm	RxSpg RxSpg RxSpg	 <b>RCC Pipe Adapter</b>
75mm 110mm 160mm 200mm		 <b>Hole Saw</b>
50 ltrs 100 ltrs 250 ltrs 500 ltrs 750 ltrs 1000 ltrs	with cover	 <b>Grease Trap</b>
110mm 160mm	Spg Spg	 <b>Yard Gully Trap</b>
110x100x1m long (4x4")		 <b>Surface Drain Channel</b>
110mm	Spg	 <b>Surface Drain Outlet</b>
110mm	Spg	 <b>Surface Drain End Cap</b>

\*Marked products will be shortly introduced.

### Installation of Ultra 250, 315, 355 and 450

- Place the chamber base on 10cm high bed of granular material or compacted stable soil bed.
- Based on invert depth, select appropriate number of risers or shaft pipe.
- Apply SILAID rubber lubricant on rubber seal provided on the riser/shaft. The riser/shaft is designed to fit tightly into Ultra base and should be pushed home completely. Intermediate depths may be obtained by cutting the riser/shaft to the required depth.
- Repeat the procedure in case of more number of risers or shaft pipes.
- Make pipe connections in the same way as per the standard procedure.
- Ensure proper positioning of the riser(s) and frame (fitted with cover)/shaft.
- Backfill the pit with granular material (soft grit/stone dust/sand) of 150mm width with proper compaction. In case backfilling material is murum or soil, it needs watering with slight compaction.
- The frame component should be positioned to meet the site requirements.
- In case of vehicular traffic, 6" PCC at the top is recommended.
- Place the suitable cover (Composite plastic/GRP) as per the load requirements.

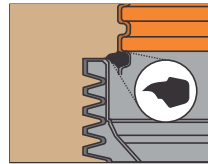


Ultra 315/450 Installation with plastic cover

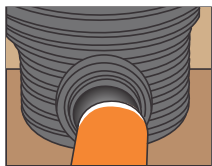
### Installation procedure for Ultra 600



1. Level the bottom of the trench with a suitable bedding material of minimum 10cm (4") depth. Please note that the trench level for the base should be lower than that of the pipe. Place the chamber base on stable foundation.



7. Check if the sealing ring is assembled correctly.



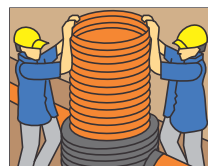
2. Apply lubricant on the rubber seal and pipe spigot. Make the joint by pushing the base to the pipe spigot.



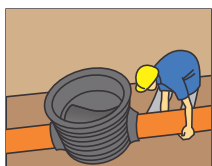
8. Apply lubricant on the inside surface of the base.



3. Ensure the correct position of Ultra 600 base on the bedding material by using spirit level.



9. Push the shaft with sealing ring into the base.



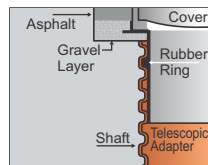
4. Connect the pipes in the required position. The adjustable pipe connector provided with the base enables an angular deflection of 7.5° from the centerline in each direction.



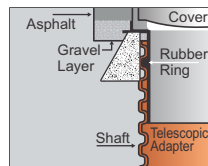
10. Backfilling with granular material should be carried out carefully to assure the material is evenly filled and compacted around the inspection chamber. The degree of compaction should be in accordance with requirements of the construction project with minimum of 95% proctor density. Avoid large sharp stones in direct contact with the inspection chamber.



5. Cut the shaft to the required installation depth by using hand saw or electric saw. Cut should be made only on outer rib.



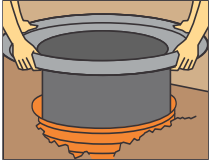
6. Assemble the sealing ring around the shaft between top two ribs.



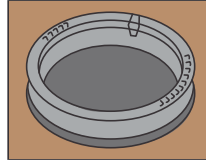
Backfilling should be carried out immediately after placing and fixing the base in position and should continue up to the top level.

**Note:** In case of 600x200mm 90° bend base, shaft is socketed & hence while connecting shaft, rubber sealing ring should be placed between top two ribs on exterior face of the base.

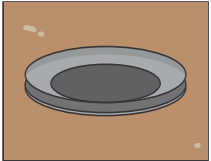
### Installation procedure for Telescopic adapter



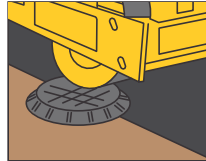
11. If telescopic adapter is essential then, put the sealing ring on inside of the shaft between the top two ribs to place the telescopic adapter.



13. In case of heavy traffic the concrete layer beneath the telescopic adapter is recommended and necessary precaution should be taken to avoid direct contact between shaft and concrete.



12. Apply lubricant on the telescopic adapter. Push the telescopic adapter to the required depth into the shaft. The telescopic adapter should be pushed into the shaft for minimum of 15cm.

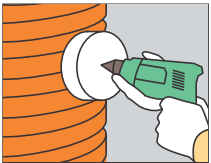


14. Place the SFRC or GRP cover of suitable load class.

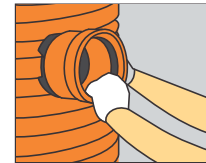
15. Finish off with top layer of asphalt or prevailing finish.

**Note:** The Ultra 600 can also be installed without the telescopic adapter. In this case a concrete ring will be installed directly around the top of the shaft. The SFRC, GRP, cast iron or ductile iron cover should be placed on top of the concrete ring.

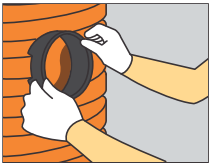
### Procedure for in-situ adapter connection



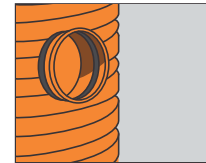
1. Drill a hole in the shaft to the required size using hole saw at the desired point of connection.



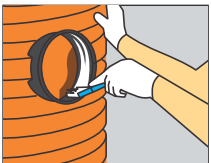
4. Insert the 'in-situ' pipe connector into the rubber seal.



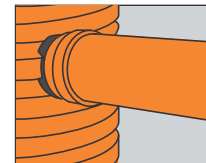
2. Remove burrs after drilling and place the rubber seal of 'in-situ' adapter in the hole.



5. The extra pipe-inlet is now ready.



3. Apply lubricant on the inside of the rubber seal.



6. Apply lubricant and push the pipe into the in-situ connection.

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