

## Inspection Chambers and Manholes



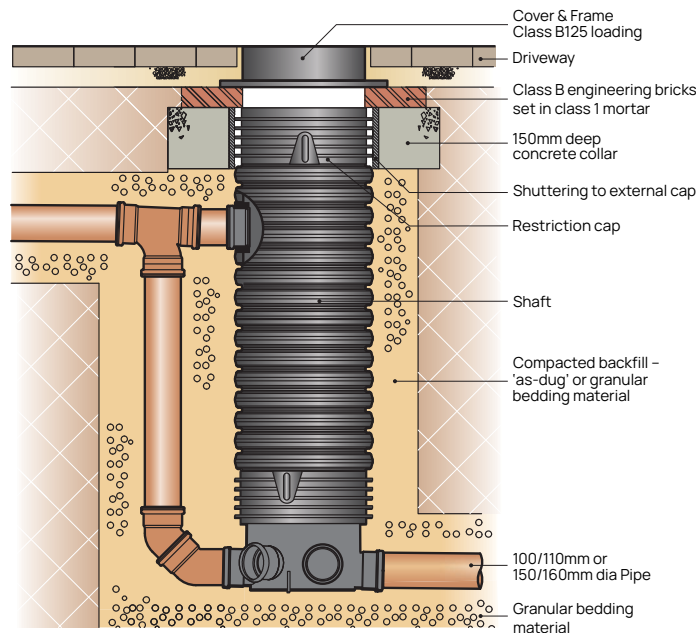
Inspection chambers based on plastics are commonly used for waste and storm water sewers, water drainage solutions and sub-drainage systems. Inspection chambers allow operating sewage and drainage systems to be maintained with service tools and equipment designed for inspection chambers without manhole access. Catch basins and drainage chambers are highly functional additions to storm water sewers and sub-drainage systems.

A complete Magnaplast inspection chamber comprises three main components:

- Inspection chamber base unit
- Smooth or corrugated rising pipe (depending on the inspection chamber system)
- Chamber top

Magnaplast offers three types of inspection chamber: 315, 400, and 425.

Chamber base units are made from injection-moulded polypropylene (PP). The use of PP means the chamber base units are extremely durable and highly resistant to damage from impact, including at extremely low temperatures. The surface finish of each chamber base unit is very smooth and greatly reduces the risk of blockages forming. The high manufacturing precision of the chamber base units and their elastomer seals minimises the risk of black or grey water exfiltration and ground water infiltration.



### DADEX Eternit Limited

Dadex House: 34-A/1, P.E.C.H.S. Block-6, Main Shahrah-e-Faisal, Karachi, Pakistan. UAN: (92-21) 111 000 789.  
Email: [info@dadex.com.pk](mailto:info@dadex.com.pk)

- **Islamabad:** (92-51) 4861034-5  
E-mail: [islamabad@dadex.com.pk](mailto:islamabad@dadex.com.pk)
- **Lahore:** (92-42) 35297530-3.  
E-mail: [lahore@dadex.com.pk](mailto:lahore@dadex.com.pk)
- **Faisalabad:** (92-41) 8861981, 8787944.  
E-mail: [faisalabad@dadex.com.pk](mailto:faisalabad@dadex.com.pk)
- **Multan:** (92-61) 4545259.  
E-mail: [multan@dadex.com.pk](mailto:multan@dadex.com.pk)
- **Peshawar:** (92-91) 5840316, 0333-9329909.  
E-mail: [peshawar@dadex.com.pk](mailto:peshawar@dadex.com.pk)

For more info, please visit [www.dadex.com](http://www.dadex.com).  
For technical information and assistance, please contact Dadex Customer Services Department on 111-000-789 or contact Dadex sales office near you.



## SEWERAGE / DRAINAGE



## THE COMPLETE UNDERGROUND PVC-U SEWER PIPE SYSTEM

# DADEX

Introduction

Flowline piping system is a suitable solution for underground drain and sewer applications in homes, commercial plazas, community buildings and infrastructure projects. This easy push-fit rubber ring/solvent cement jointing system is durable, corrosion free and lightweight. Flowline is the first PVC-U based underground sewer pipe system in Pakistan that conforms to international quality standards.

Material

Flowline pipe system is manufactured from Unplasticised Polyvinyl Chloride (PVC-U) compound. Flowline pipes and fittings are terra cotta (orange brown) in color, which is recommended color for buried drainage system.

Standards and Specifications

Flowline pipes and fittings are manufactured in accordance with EN 1401-1.

Available Range

Flowline pipes and fittings are available from 110mm to 355mm in standard lengths of 3 & 4 meters. A range of imported injection molded fittings could be made available.

Features & Benefits

- **Efficient Disposal:** Exceptionally low friction and smooth inside surface of Flowline minimizes build up of deposits commonly seen in conventional sewer pipe systems.
- **Low Bacterial Growth:** All conventional sewer pipes collect a coating of algae or slime. Flowline offers lesser grips for slime.
- **Thermal Expansion/Contraction:** Flowline pipe system with rubber ring socket joint allows natural provisions against thermal expansion.
- **Non Corrosiveness and chemical Resistance:** Flowline is non-corrosiveness. It resists chemical reactions from acids, alkalis and salt solutions.
- **Lightweight and Easy to install:** Flowline pipes are light weight and easy to install. This leads to lower transportation and installation costs.
- **Leak Free:** Flowline has water tight connections. There is no chance of infiltration or pollution of ground water.
- **Easy to Maintain:** Flowline pipe system is easy to access after installation for inspection, cleaning, repairs, etc.

Nominal OD (mm)	Mean OD (mm) min-max	Min Wall Thickness (mm)	
		SN 8, (SDR 34)	SN 4, (SDR 41)
110	110.0 - 110.3	3.2	3.2
160	160.0 - 160.4	4.7	4.0
200	200.0 - 200.5	5.9	4.9
250	250.0 - 250.5	7.3	6.2
315	315.0 - 315.6	9.2	7.7
355	355.0 - 355.7	10.4	8.7

Jointing Method

Ring-Seal / Push-Fit Jointing

- Ensure any pipe cut on site is also chamfered.
- Check that the sealing ring is properly seated in its housing in the socket of the fitting.
- Ensure all components to be joined are dry, clean and free from grit or dust. Note any deep scratches on the pipe or fitting spigot as these may prevent the sealing ring from forming a water tight seal.
- Lubricate evenly around the pipe or fitting spigot end with Silicone Lubricant. Do NOT lubricate inside the socket and not the ring seal. The spigot can then be inserted into the socket. Use of washing liquid is not recommended as lubricant. However, soap solution can be used as lubricant.
- Correctly align the components to be joined.
- Push the pipe or fitting spigot fully into the socket. Mark the pipe or fitting spigot at the socket face and then withdraw it by a minimum of 12mm to allow for thermal expansion.
- Make a subsequent check to ensure that the expansion gap is not lost during further installation work.

Solvent Cement Jointing

- Before using solvent based cleaners or cement:
  - Read instructions on the can
  - Ensure there is sufficient ventilation.
- Make sure pipe or fitting spigot and solvent weld socket are dry, clean and free from grit or dust.
- Clean surfaces of spigot and socket with Dadex Degreasing Cleaner. Apply liberally using a clean non synthetic rag or absorbent paper.

- Apply one coat of Dadex Solvent Cement. Apply an even coat to both surfaces using applicator provided or a paint brush. Stroke cement along and not around the surfaces.
- Immediately insert pipe or fitting spigot fully into the socket. Each solvent weld joint MUST be completed within 1½ minutes.
- Hold for 20-30 seconds. Remove any surplus cement from the mouth of the socket.
- The joint may be handled after 10 minutes and commissioned after 24 hours.

Safety

When making solvent weld joints it is essential to observe normal safety rules for handling solvent:


- Never smoke or bring naked flames near the area of work
- Work in a well ventilated area to avoid inhaling fumes
- Close the solvent container after use & store in a cool area
- Do not allow solvents or cleaners to come into contact with skin.

Refer to COSHH (Control of Substances Hazardous to Health) and local safety regulations where applicable.


Available Fittings

A wide range of compatible imported fittings is available


Bends




Branches




Plug




End Cap




Sleeves



Reducer



Double Socket



Multi-stage reductions

