

# ROMOLD

## Romold PE Manhole & Inspection Chambers



Romold manhole/inspection chambers are made of 100% virgin UV stabilised polyethylene (PE) material and are intended for use in underground drainage and sewerage systems. Innovative industrial strength design based on almost 20 years of German/European experience incorporates carefully designed ribs to provide extra strength to the product and at the same time act as an uplift prevention system against ground water.

Romold manholes have been installed in extremely challenging site conditions such as high ground water level. Romold chambers are suitable for both on-road and off-road installations.

### Benefits:

Fast, Easy, Flexible and Safe installation

Ultra Durable

Corrosion resistant – suitable for industrial waste water also

Maintenance Free

Reduced operating costs – minimal blockages due to hydraulically optimized channels

High Quality according to latest European norms EN 13598

Environmentally Friendly - watertight preventing pollution / low carbon footprint

European Quality Accessories - watertight EN 681-1 certified rubber seals, corrosion resistant FRP steps as per EN 14396

Manhole/inspection chambers are an essential part of any sewerage pipeline and are typically required whenever there is a change in direction, diameter or significant change in gradient of the sewerage pipeline. Manhole/inspection chambers are required in domestic, commercial and municipal sewerage networks.

Romold is one stop shop for quality PE products:

- Sewerage inspection/manholes chambers.
- Gully traps.
- Grease traps for individual and industrial use.
- Triple layers water tanks 500L, 750L and 1000L.
- Underground water tanks.
- Septic tanks.
- Multi-use, flat base chambers for pumps, valves, electrical and other connections.

Advanced technical support is available for all products from our technical support team and specialist sales.



Manufactured by:  
**Romold (Mauritius) Ltd.**

Distributed by:  
**STR Marketing Ltee**  
Old Moka Road, Bell Village,  
P.O. Box 98, Port Louis - Mauritius  
Tel: (230) 212 9972  
Fax: (230) 212 9998  
E-mail: info@str.mu  
Website: www.str.mu



## Installation Procedure Overview

**Important:** Consult Romold for installations where water level is high. All instructions from the Engineer and local regulations must be respected. Following is an overview of installation procedure please consult Romold for detailed instructions.

Rock sand or non cohesive selected material of size less than 16mm without any sharp objects/rocks should be used as back filling material.

### Fast, easy and safe installation in 5 simple steps:

#### ● A - Excavate

- 1- Excavate 60 cm wider and 15cm deeper than the chamber.
- 2- A base layer of 15 cm should be filled and compacted to 95%
- 3- Place the chamber on the compacted layer of 15cm
- 4- Check the levelling to ensure chamber is horizontally aligned

#### ● B - Connect Inlet

- 1- To connect inlet pipe(s) drill hole of appropriate diameter with Romold cup saw on pre-marked inlet positions, insert Romold EN 681-1 inlet rubber seal, push the pipe into the seal for a watertight connection. Soap water may be used as lubricant. There is no need for any glue, silicon.
- 2- Romold seals provide watertight connection and allow for 5° movement in all directions
- 3- If due to site constraint you cannot connect the inlet at the pre-marked location then you may connect the inlet anywhere on the body of the chamber however direction of the inlet/outlet in benching should be taken into consideration for proper flow.

#### ● C - Connect Outlet

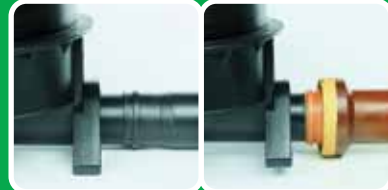
- 1- Connect the outlet pipe by slipping the socket of the pipe onto the outlet spigot of the chamber. If required smaller unnecessary spigot may be cut off at right angle with a saw.
- 2- If outlet pipe is PVC then use RRJ socket for watertight connection. Do not use glue or silicone.

#### ● D - Backfill and Compact

- 1- Check levelling of chamber and ensure horizontal alignment
- 2- Back filling material should be inserted under the manhole in order to fill-in the gap between the manhole and the compacted layer. Use hand stamper.
- 3- Back fill around the manhole in layers of 30 cm and compact to 95% with a mechanical vibrating stamper (50 Kg).
- 4- Continue to fill-in and compact in layers up to ground/cover level.

#### ● E - Adjust Height and Install Cover

- 1- The height of the chamber can be adjusted on site by cutting the upper edge of the chamber.
- 2- Romold PE covers can be used for installation in the garden or non-traffic areas
- 3- For installation in traffic areas, a concrete load bearing ring around the neck of the chamber should be used. On this ring appropriate class C/D cover with frame should be installed. Romold can provide more details on load bearing ring and installation. Site Engineer should be consulted.



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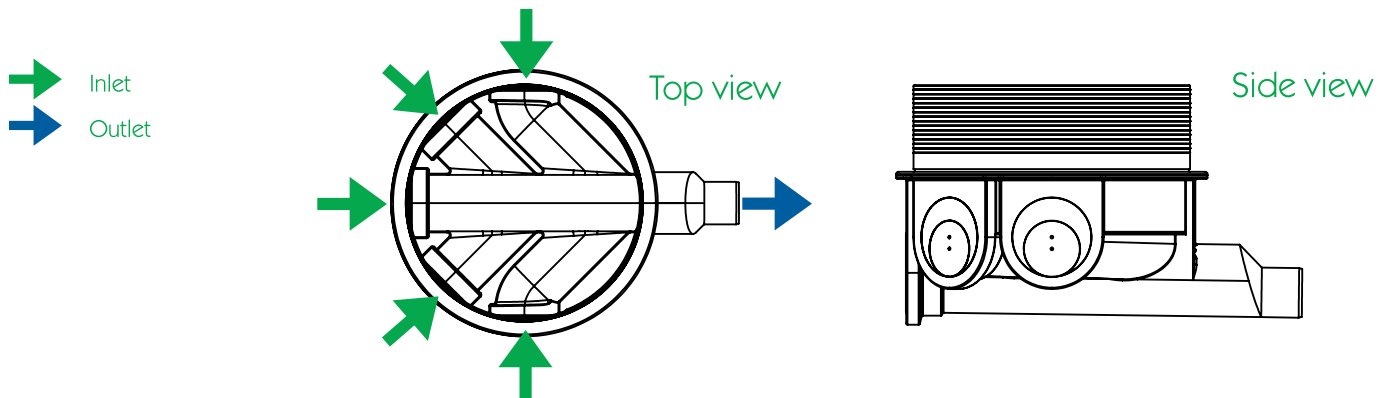
## Romold Inspection/Manhole chamber dimensions

Diameter mm	Height Range mm	Inlet DN mm	Outlet DN mm	Cover DN mm	Personal Entry
500	350-1500	110/160	110/160	500	No
600	350-1500	110/160	110/160	600	No
800*	1050-1750	110/160	110/160	600	Yes
1000*	1100-6000	110/160/200	110/160/200	600	Yes

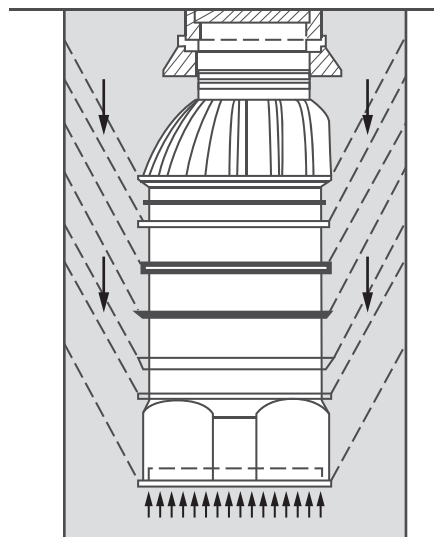
\*Steps are available on demand

All chambers have 5 inlets (2-45°, 2-90°, 1-180°) and a multi-dimensional outlet. In addition inlets may be connected anywhere on the body of the chamber for extremely flexible and easy installation.

The main channel has a gradient of 1-2% to allow all inlets to drain towards the outlet as part of a gravity sewerage network



## Uplift Prevention



The strategically designed ribs on Romold chambers interlock with the soil to prevent uplift. Engineering calculations show that DN 1000 Romold chambers have a safety factor well over 1.8 against buoyancy caused by existing groundwater.



## Reference Projects:

- Trou aux Biches Hotel
- Les Allées d'Helvetia
- Athena Villas
- St Regis Hotel
- Belle Rivière Hotel
- West Rock
- Jeetoo Hospital
- Bagatelle Mall of Mauritius
- Azure Villas
- La Mivoie commercial center
- Long Beach Hotel
- Villas Tamarin
- Beach House Hotel
- MCB Ebène
- WMA – Plaine Wilhems
- Sri City, India
- Chennai Metropolitan Water Supply and Sewerage Board, India

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