



PE Mini Manhole Maintenance Shaft

Rotomolded LMDPE Mini Manhole is a lightweight one piece unit for sewer or stormwater.



TECHNICAL GUIDE: TC2.3

Applications

Sewer systems

Stormwater drainage systems

Product Attributes

Welded one piece unit eliminates root intrusion and groundwater ingres

Does not suffer from gas attack (internal or external)

Manufactured to suit all types of pipes up to DN 300 mm (larger sizes on request)

Does not require concrete encasement

Base allows multiple inlets

Approvals/Standards

ASTM F1759-97, Standard Practice for Design of Manholes for Subsurface Applications WSA 137-2013 Maintenance Shafts and Maintenance Chambers for Sewerage

Quality

ISO 9001:2008

As part of the Smartstream family of products, the Mini Manhole and Maintenance Shaft is an excellent and durable option for sewer and wastewater applications.

Product Overview

- Durable and lightweight, the unit reduces transport and handling costs.
- With Mini Manhole almost any inlet combination is possible. The spherical base allows multiple inlets to be attached at any angle between 45° and 315° from the downstream and at specified grades.

As each Smartstream Smart Pit is made to suit your individual requirements, please contact Hygrade Water with your project details for pricing.

Design Specifications

- One piece rotomolded polyethylene construction.
- Very robust 13 mm wall thickness.
- 600 mm spherical base has excellent hydraulic properties.
- Typical installation from 500 mm invert to 2.4 m invert.
- All units are hydro tested prior to dispatch.
- Range of fittings available to accommodate most sewer line types including: PVC, PE, Clay and AC.
- In order to manufacture the product to customer requirements, a drill order sheet must be completed and sent to Hygrade fabrication.

Installation

- Bedding material must be in accordance with local council requirements.
- Connect downstream and ensure that the top of the chamber is level.
- Pack/tamp to support product.
- Connect upstream.
- Backfill and compact.
- Install concrete cover slab and access cover.

Cover Options

 Hygrade offers a wide variety of cover and frames. Refer to our Streetware catalogue or contact your Hygrade representative for more details.



FIG. 1 Assembled view of the Riser and the Base Unit. The custom-built unit allows multiple entry points.



FIG. 2 Precast Concrete Slab and Class D Cover

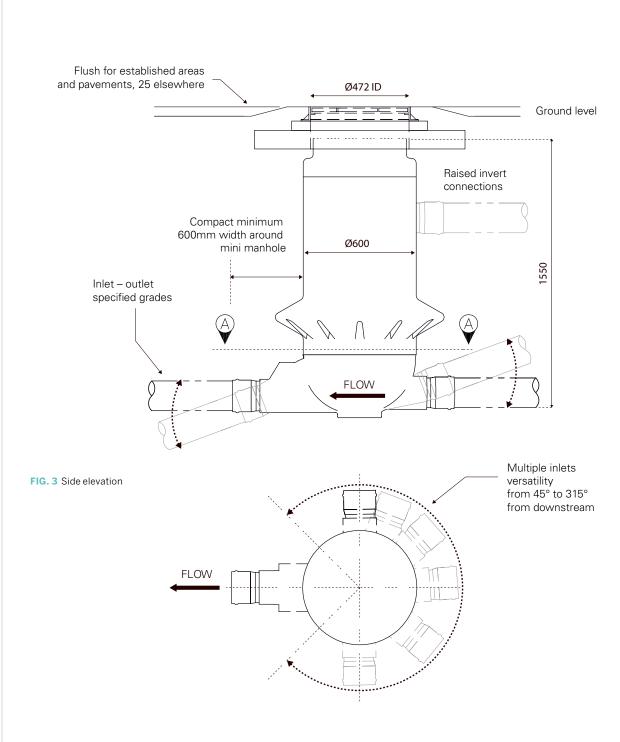
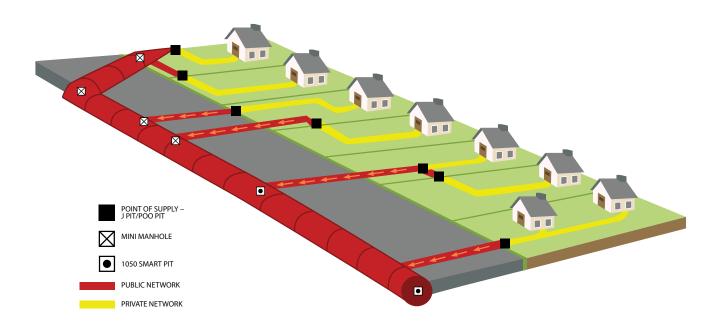


FIG. 4 Section A-A Base inlet and outlet connections

Typical Smartstream Application



Smartstream Family of Products

The Mini Manhole is part of the Smartstream family of products, the most complete portfolio of PE solutions for drainage and sewer applications.











Scan for more information

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