

1050 SMARTPIT™

PE MANHOLE

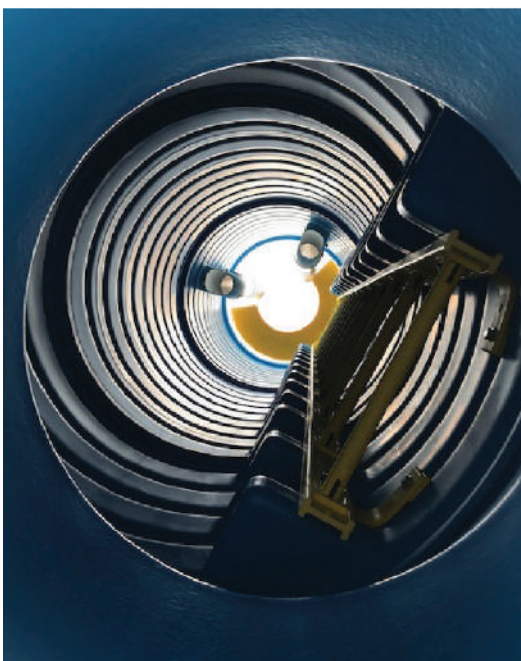


- The SMARTPIT™ is an Australian designed and manufactured PE Manhole using Finite Element Analysis.
- The unit's physical properties have been proven in service in various installation scenarios.
- The SMARTPIT™ is made from the same PE material as the Poo Pit™ maintenance shaft and is capable of handling the most corrosive internal and external environments with no requirement for expensive lining systems.
- Suitable for use in sewer, stormwater or subsoil drainage applications and is compatible with PE, PVC, Polypropylene, Clay or Concrete piping materials.
- The SMARTPIT™ can achieve the exact angle and grade to suit the design or retrofit location and can be supplied with multiple inlets in the base or riser.
- Supplied to site fully welded with all connections pre made, reducing installation, handling and transports costs.
- Each SMARTPIT™ is supplied fitted with a high visibility yellow safety bench providing a consistent 200mm non slip self-draining platform eliminating the need for post installation benching on site.

QUALITY

ISO 9001 – 2015

FEATURES & BENEFITS



- Corrosion resistant PE material
- No internal or external coatings required
- Supplied fitted with non-slip bench
- Accommodates inlets at any grade and angle
- No horizontal/vertical alignment adjusting bends needed
- Connections possible in base and or riser
- Accommodates pipes of all material types
- Suitable for welded connection to Polyethylene pipes
- Made to suit either solvent weld or rubber ring PVC
- Multiple pipe material connections possible on the same pit
- All Smartpits prefabricated prior to delivery
- Fast installation for retrofit and replacement projects
- 100% watertight. All factory welded prior to delivery
- Proven operational technology to depths of up to 5m
- Lightweight and user friendly
- Reduced transport and handling costs
- Improved efficiencies providing cost benefits to the end user
- UV resistant, state of the art Polyethylene technology
- No concrete encasement required
- Easy connection of new lines
- No onsite welding or spark testing required



INSTALLATION



STEP 1

LIFTING / UPLOADING REQUIREMENTS

Unload the SMART PIT™ with lifting slings using choking method as pictured or fork attachment if palletized. Care should be taken with pipe connections during unloading, lifting and storage.



STEP 2

INSPECTION OF SMART PIT™

The installer shall inspect the delivered product to confirm the SMART PIT™ is free of any obvious defects that may have been caused during the handling/delivery to site.



STEP 3

PREPARING THE SITE

The installation bed must be prepared in accordance with the regulating authorities. Backfill Design Process and Requirements. Site ground conditions will need to be taken into account. As a minimum, a 100mm layer of class 20mm) granular fill should be positioned under the base.



STEP 4

DOWNSTREAM OUTLET CONNECTION

Lift the SMART PIT™ with lifting slings using choking method, as pictured. Lift into position and connect downstream pipe with desired jointing method.



STEP 5

LEVEL

Set the SMART PIT™ to the required level using the spirit level.



INSTALLATION



STEP 6 SUPPORT

Pack or tamp the surrounding sides of the SMART PIT™ base clear of upstream connections to support the product.



STEP 7 UPSTREAM INLET(S) CONNECTION

Connect the upstream inlet connection(s) with the desired jointing method.



STEP 8 BACKFILL AND COMPACT

Carefully backfill and compact in accordance with the Local Authority Backfill Design Process and Requirements. As a minimum 150mm of Class 4 (less than 40mm) granular fill surrounding the SMART PIT™,



STEP 9 CONCRETE SPREADER

Trim riser to desired height allowing for cover depth and prepare level Class 4 (less than 40mm) bedding. Care must be taken to not over compact above the tapered reducer before spreader is positioned. Install the concrete spreader over 600mm manhole riser with the concrete at least 25mm higher than the riser. Use Sikaflex elastic joint sealant or approved equivalent to seal between PE riser and inside of concrete spreader. Making sure to grind or rough PE surface for sealant to bond.



STEP 10 INSTALL ACCESS COVER

Approved trafficable/non trafficable cover to be installed on concrete spreader, use butyl primer and mastic or approved equivalent to seal between concrete cover and concrete spreader in accordance with local requirements.

