

# Smart Pit™

## INSTALLATION GUIDE



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### Lifting/unloading requirements at site

- Unload the **Smart Pit™** with fork attachment if product is palletised or lifting slings using the chocking method if not palletised.
- Extra care should be taken with pipe connections during unloading, lifting and storage.



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### Inspection of Smart Pit™ at site

- Experienced and qualified installer/s inspect the **Smart Pit™** when it is delivered prior to installation to ensure the pit is free from any defects that may have been caused during handling and delivery to site.



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### Preparing the site

- The installation bed should be prepared and compacted with bedding material used to suit local soil and groundwater conditions, in compliance with regulatory authority and specifying engineer's requirements.



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### Placing the Smart Pit™ into the trench

- Lift the **Smart Pit™** into position with lifting sling using the chocking method.



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### Downstream/outlet connection

- Connect the downstream/outlet using the specified jointing method.
- Solvent glue joint method shown here.
- Quickly use a spirit level on the top and side of the pit to ensure it is perpendicular and level before glue sets.



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### Support

- Pack/tamp the specified backfill material in compliance with regulatory authority and specifying engineer's requirements around the pit to support it, clear of the downstream/outlet connection.

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### Connecting the upstream/inlet(s)

- Connect the upstream inlet(s) using the specified jointing method.



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### Backfill and compact

- Compact the specified backfill up to required finish level in compliance with regulatory authority and specifying engineer's requirements.



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### Rubber ring fitting and concrete spreader/conversion slab placement

- Prepare the finished bedding level for concrete spreader/conversion slab around the outside of the top of the **Smart Pit™**. Ensure the compaction is 100 - 130mm below the top of the pit.
- Ensure rubber ring is fitted to the top of the pit using suitable lubricant.
- Install the concrete spreader/conversion slab over the **Smart Pit™**.



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### Preparation for installation of the access cover

- Approved trafficable or non-trafficable cover, depending on location, to be installed on top of the concrete spreader/conversion slab in compliance with regulatory authority and specifying engineer's requirements.
- Shown here, is butyl mastic primer being applied over the slab prior to application of butyl mastic. Alternatively, mortar can be used instead of butyl mastic.



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### Installation of access cover

- Lift the access cover and place it on top of the concrete spreader/conversion slab ensuring the openings align.



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### Cover installation and final surface completion

- Installation is now practically complete with the backfilling around the pit to surface level of cover allowing for landscaping and/or paving to be installed around the **Smart Pit™**.