

SCEC Endorsed Cable Pits

– MANUFACTURERS GUIDE FOR CABLE PITS

Pits are installed by excavating, positioning the pit in the ground and by backfilling. If required, additional pit height may be achieved by adding a riser or plinth.

With all installations, ensure compatibility with the surrounding areas and regulatory codes.

For more info, visit <http://www.acoaus.com.au/education/cablemate/theory-introduction.htm>

The following is a basic methodology for installing cable pits.

1. Excavate greater than overall dimensions of the pit and make allowance for persons working around the area.
2. Remove all loose material from excavation. Level and compact base.
3. Install pit on a stiff wet concrete base or a foundation of sand or aggregate, depending on the application.

(For split body pits only, position pit floor first, then lower the main pit body onto the floor. The pit body walls should mate into the pit floor rebate. This 10mm rebate allows a closure to prevent soil ingress.)

4. Ensure top of pit is level with the finished pavement level. If cover & frames (access covers) are used, top of the pit must be set down beneath pavement.
5. The cable area of the pit is generally created through the wall (poly infill – Signex) panels.
 - Holes can be formed using hole saws through the panels.
 - Align the cable exit and entry points so that cables can be pulled easily.
 - Allow 50mm from the bottom of the pit to minimise silting.
 - Allow approximately 25-50mm spacing between conduits in the panel.
 - Ensure the clear working area of the enclosure is not impeded and cables protected from damage.
 - Fit all conduit with bushes ensuring they are hard up against the pit wall. Conduits must have sharp edges removed from their internal surfaces.
 - Using a flexible proprietary sealant, seal conduits to prevent ingress of moisture and silt into pit during service. And seal wall (poly infill – Signex) panel to pit.
6. Backfill the pit with sand or aggregate in layers and compact manually.

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