

# ACO Utility Enclosure Products

Rigid Plastic Pits



## ACO CABLEMATE®

*EzyBrixx™ Leaflet*

### **EzyBrixx™ – rigid twin wall plastic pits**

Comprising a system of interlocking units enabling custom sizes and shapes.



## ACO CABLEMATE®

ACO is a leading manufacturer of trafficable cable pits and continuous surface ducting systems for the electrical, communication and construction industries.

ACO offers product solutions for all load classes with the industry's largest choice of lids and access covers.

ACO Cablemate® pit bodies are manufactured from materials with excellent insulation for electrical resistivity. A full range of accessories are available to ensure trouble free installation and access.

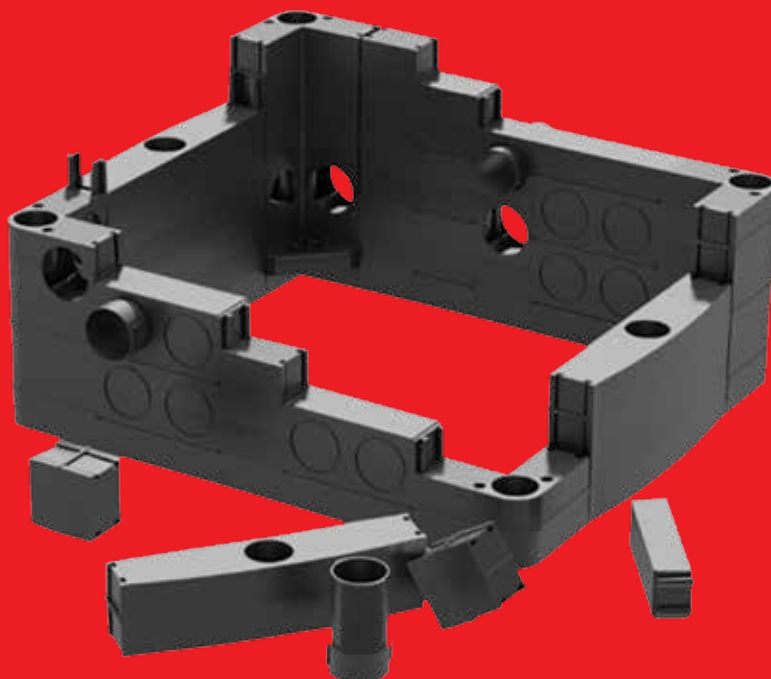
ACO's patented PowerLok® Lid is unique to this range and offers a choice of standard or high security options. The PowerLok® Lid eliminates the need for a protruding locking bar encroaching the internal pit area.

ACO provides technical advice to ensure the correct product is chosen for the purpose.



## EzyBrixx™

EzyBrixx™ is a range of modular rigid plastic cable pits. The twin wall design features a unique interlocking wedge system which ensures component interlock and wall rigidity. In most applications concrete backfill is not required.



### Typical Applications

- *Landscaped areas*
- *Streetscapes*
- *Median strips*
- *Car parks*
- *Sports venues*
- *Driveways*
- *Industrial sites*
- *Urban distribution*

### Cable Management

- *Inspection*
- *Cable drawing*
- *Cable jointing*
- *Direction change*
- *Equipment storage*

## Product Overview

### EzyBrixx™

EzyBrixx™ is a range of modular rigid (twin wall) plastic pits comprising an innovative interlocking wedge system.

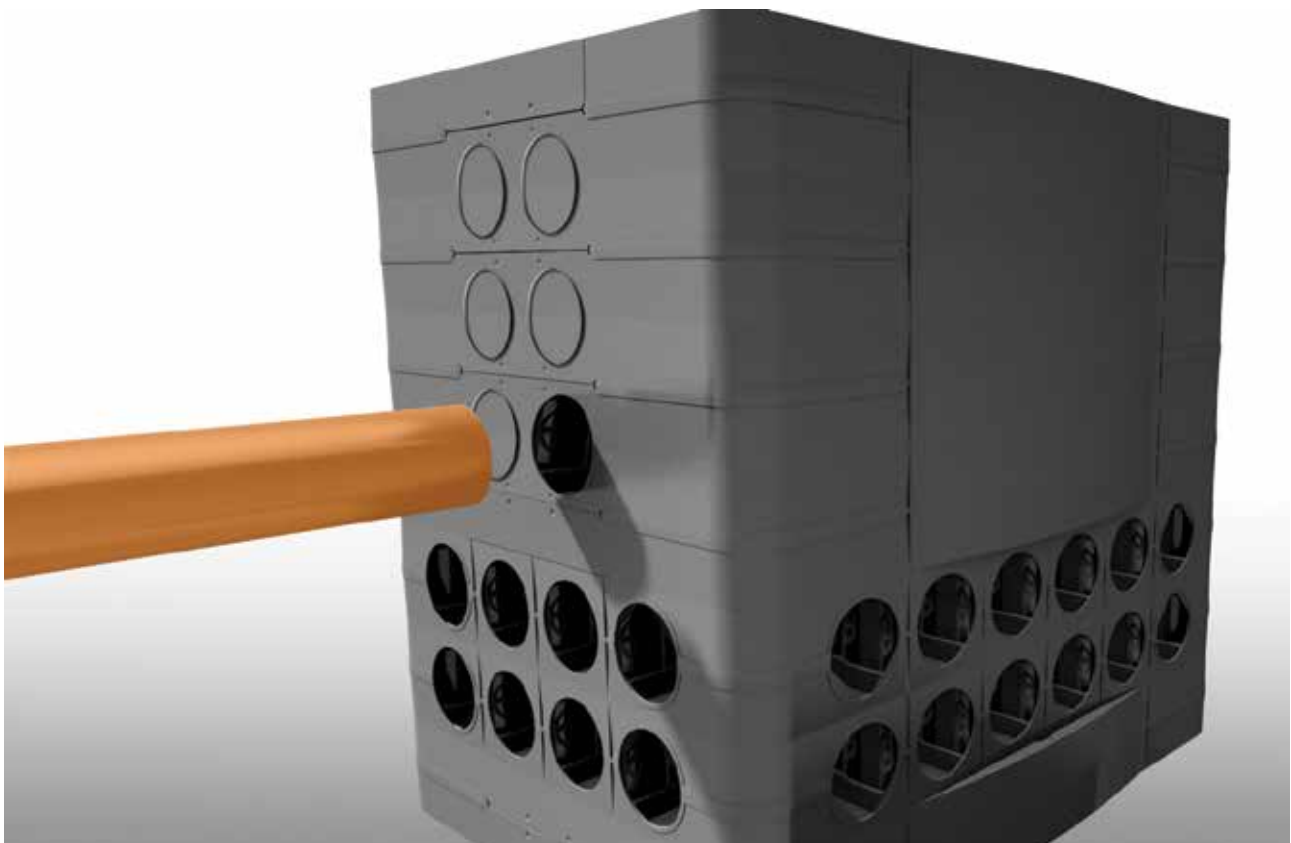
EzyBrixx™ pits are capable of withstanding high loads and in most cases a concrete backfill is not required.

Components are made from 100% recycled polypropylene and are configured in 150mm high stacking units to create a lightweight and easy to install pit of any depth.

The EzyBrixx™ modular units allows for customised sizes and shapes and can be made to order and delivered pre-assembled to site.

A choice of trafficable locking lids and access covers are available to provide security for underground infrastructure.

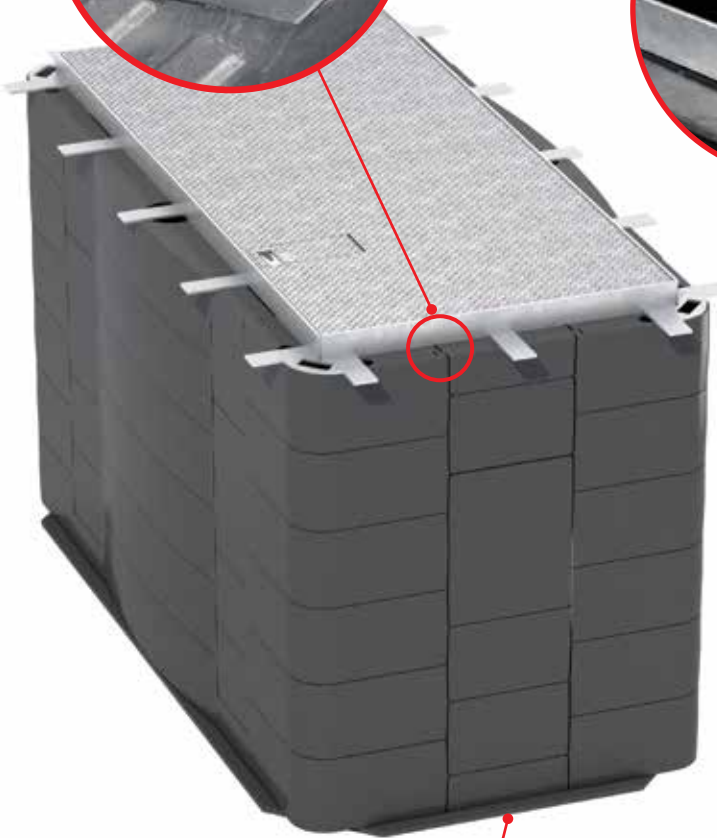
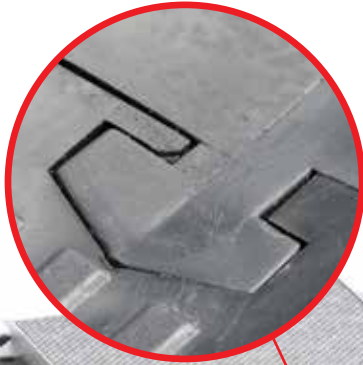
Cable pits are positioned on cable routes to provide branching or bending points and to allow access for jointing and maintenance. Common types of cables that pass through cable pits include electrical wiring and communication (data) fibre-optic cables.



# EzyBrixx™ Features

## Wedge Interlock Connection

Unique wedge interlocking system provides a rigid and secure wall.

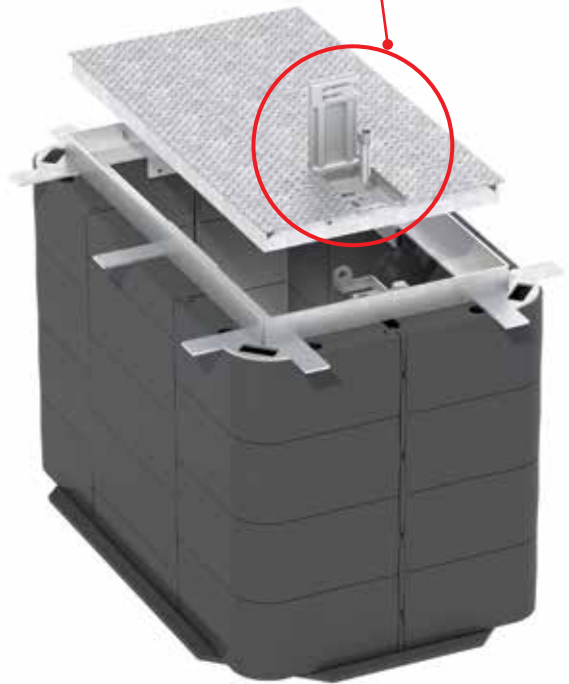
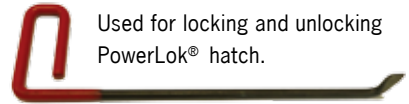


## PowerLok® Lids

ACO's patented PowerLok® Lids provide high security for sensitive areas. All frames are secured to the pit wall. For more information visit [www.powerloklids.com.au](http://www.powerloklids.com.au)

## PowerLok® Tool

Used for locking and unlocking PowerLok® hatch.



## Optional Plastic Base

An optional plastic base can be supplied fitted to the pits.

Bases up to 1200mm x 1200mm clear opening are supplied riveted to the pit.

Bases for larger sizes are supplied loose for easy transport.



## Optional Modular Step Ladder

Strong thermoplastic ladder of lightweight construction (4kg/m). Recommended for pits exceeding 1200mm depth. Compliant to AS 1657.





**Optional Universal Lifting Key**

**Universal Plug**

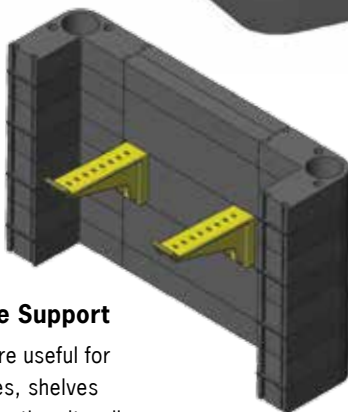
Universal plug allows lids to meet IP rating IP4X AS 60529.



**Standard Locking Lids**

AS 3996 designed steel lids and frames are hot dipped galvanised to AS 4680.

Lids are secured with 2 x M8 locking bolts into the frame. All frames are secured to the pit wall.



**Optional Cable Support**

Cable supports are useful for suspending cables, shelves and other items on the pit wall.

**Conduit Entry**

Conduit entries can be created on-site with a holesaw.



## Technical Support

ACO has invested extensively to provide technical support for its range of access covers and cable enclosures.

ACO's Technical Services Department provides advice on product selection and recommended installation procedures.

Equipped with purpose-written computer software, ACO's engineers can produce project specific design documents, free of charge and obligation.

## Project Specific Services

### Pit Sizing

ACO can help assess the project requirements and recommend the optimal pit sizes for the cable route. ACO can also build the pit and deliver pre-assembled to site.

### Access Cover and Lid Selection

ACO can assist with the selection of the most appropriate cover or lid type for the application.

When a multi-part cover and frame system is required, ACO's technical staff will provide a custom designed multi-part solution, adhering to the design criteria and WHS requirements.

### Cable Routes

Cable routes can pass through various pavement materials with different load and traffic requirements.

ACO can provide information to help safeguard the integrity of the underground space.

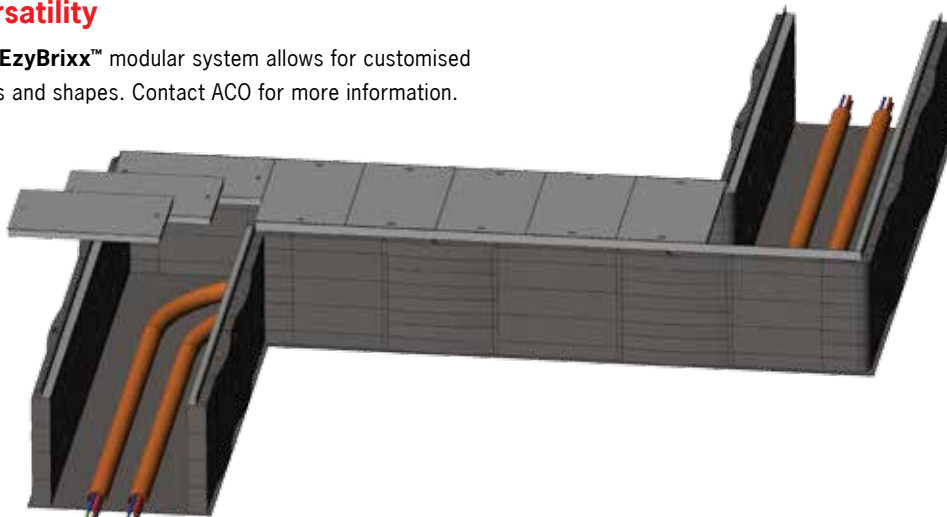
## Compliance

The electrical and communications industry have specific regulations and codes of practice governing its industry.

ACO recommends that designers and installers adhere to the regulatory codes applicable and seek advice from the relevant legislative authorities and consulting engineers regarding each application.

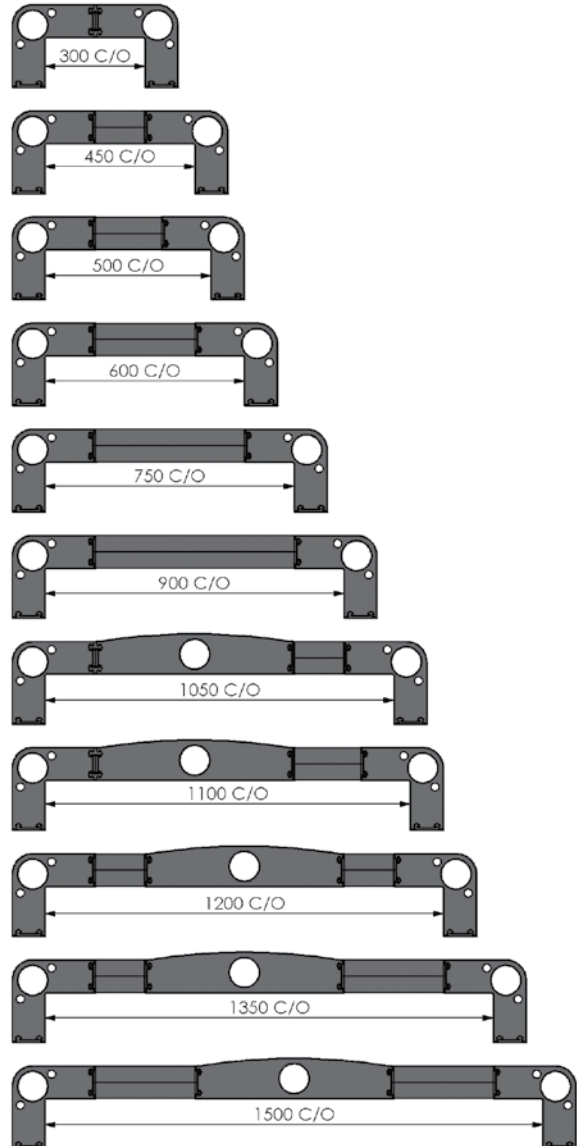
## Versatility

The **EzyBrixx™** modular system allows for customised sizes and shapes. Contact ACO for more information.



## Wall Sizes

EzyBrixx™ pits can be assembled in a variety of standard wall sizes. Below are the most common clear opening sizes. Larger sizes are also available. EzyBrixx™ pits are assembled to depth increments of 150mm.



## Installation



### 1. Excavation

Excavate the hole allowing for the size of the pit, plastic base, frame and lid system.

### 2. Prepare the Excavated Ground

Determine the anticipated load that will be subjected to the pit and prepare the excavation.

The floor of the excavated ground can be constructed from compacted earth, mortar or aggregate concrete. Level and compact the floor.

### 3. Drill Cable Entries

Drill out cable entries. Conduit holes must be spaced at least 50mm apart from each other. A bracing panel can be supplied to increase the wall strength.

### 4. Installation of the Pit

Lower the assembled pit into the centre of the excavated hole.



### 5. Backfilling

It is recommended to backfill in increments.

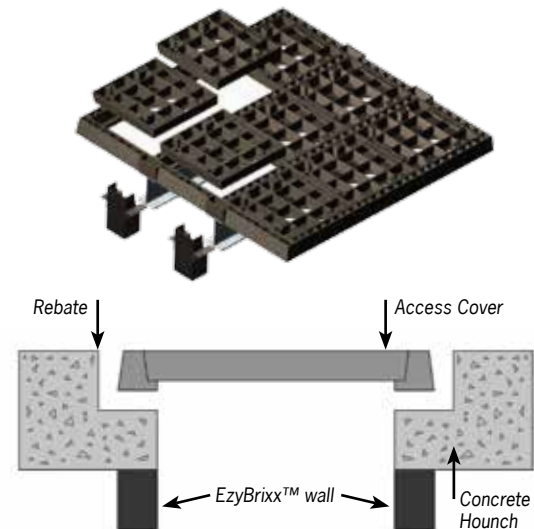
For wall lengths greater than 1000mm, temporary internal bracing is recommended. Position lid(s) onto the frame.

Contact ACO or seek engineer's advice for more information.

## Special Applications

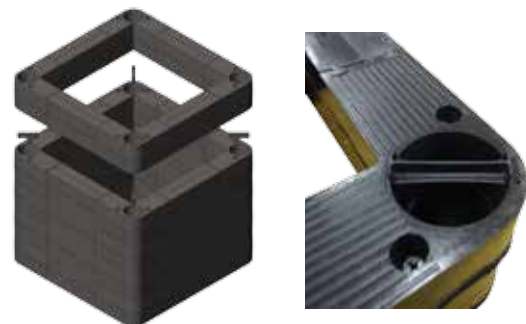
### Concrete encased cover and frame systems

When a heavy duty cable pit is required or where paving needs to be bedded into the cover, ACO recommends its Rhinocast® ductile iron access cover and frame system. These access covers are installed above the pits and require a supporting concrete haunch.



### Adjusting to a finished ground level

Sometimes decisions need to be made on site to determine the exact depth of the pit required. The EzyBrixx™ pit depth can be increased after the pit has been installed. Connectors are available to support risers in 150mm increments.



### Reinforcing

Large pits and pits subjected to high loads will require reinforcing. All reinforcing will be supplied and calculated at the quoting stage.





## ACO CABLEMATE® enclosures

- **Polycrete® Pits**  
Pits manufactured from polymer concrete
- **Polyethylene Pits**  
Pits manufactured from flexible lightweight, moulded plastic
- **SCEC Pits**  
SCEC approved pits for defence projects to Security Level 1 and Security Level 2 as documented in the SEEPL catalogue
- **EzyBrixx™**  
Modular rigid twin wall plastic pits
- **SIT Pits**  
Series Isolation Transformer (SIT) pits used for airfield landing strip lighting
- **Polycrete® Ducting**  
Surface ducting systems comprising channels assembled to produce continuous runs

## ACO Polycrete Pty Ltd

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