

Polymer Concrete Cable Pits





Polycrete® (polymer concrete) pits have excellent insulation properties, high mechanical strengths, chemical resistance and zero water absorption, which makes them ideal as electrical and communications enclosures. Lighter and therefore less cumbersome than traditional concrete pits, only large polymer concrete pits require special lifting equipment.

Features

- Manufactured from chemical and corrosion resistant lightweight polymer concrete
- Pit bodies – 100% non metallic, insulated construction with an electrical resistivity rating of $1 \times 10^8 \Omega/\text{sq}$. (identical to concrete without steel reinforcing)
- Easy to fit and seal dividing walls
- Easy to handle & cut for cable entry penetration
- Range of anti-slip lids and access covers for all load classes to Class G (AS 3996)
- OH&S friendly steel lids not exceeding 25kg
- IP ratings up to IP4X (AS 60529) - enclosure protection against ingress
- Aesthetic, recessed access covers for infill of pavement material to complement or match surrounding pavement
- Steel lids and access covers are hot dip galvanised to AS 4680
- Access covers are weather resistant

Key

These icons appear on the following product pages to easily identify the lid and cover options available with each pit/riser.

- | | |
|---|--|
|  | Polymer concrete pit with lid |
|  | Polymer concrete pit with riser and lid |
|  | Polymer concrete pit with access cover |
|  | Polymer concrete pit with riser and access cover |



Anti-slip polymer concrete lids ensure a complete enclosure comprising non metallic components.



Walls designed for easy cable entry penetration.

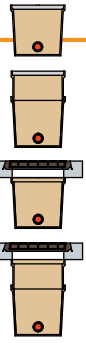


ACO's patented **PowerLok®** lid with choice of security options is available for a wide range of pit sizes.

Applications

- Carparks
- Streetscapes
- Sports venues
- Driveways
- Industrial sites
- Urban distribution
- Airports





Type 33 Pit

| | | | | |
|--------|-------|--|--------------------|--|
| Length | 340mm | | Up to | |
| Width | 340mm | | | |
| Depth | 440mm | | | |
| | | | 740mm (1 riser) | |
| | | | 1,040mm (2 risers) | |

Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids

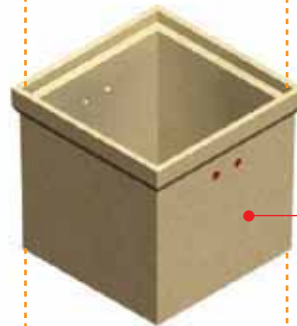


Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.
If a locking lid is required, contact ACO.



Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

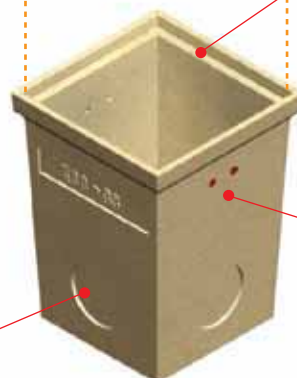
Riser



Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



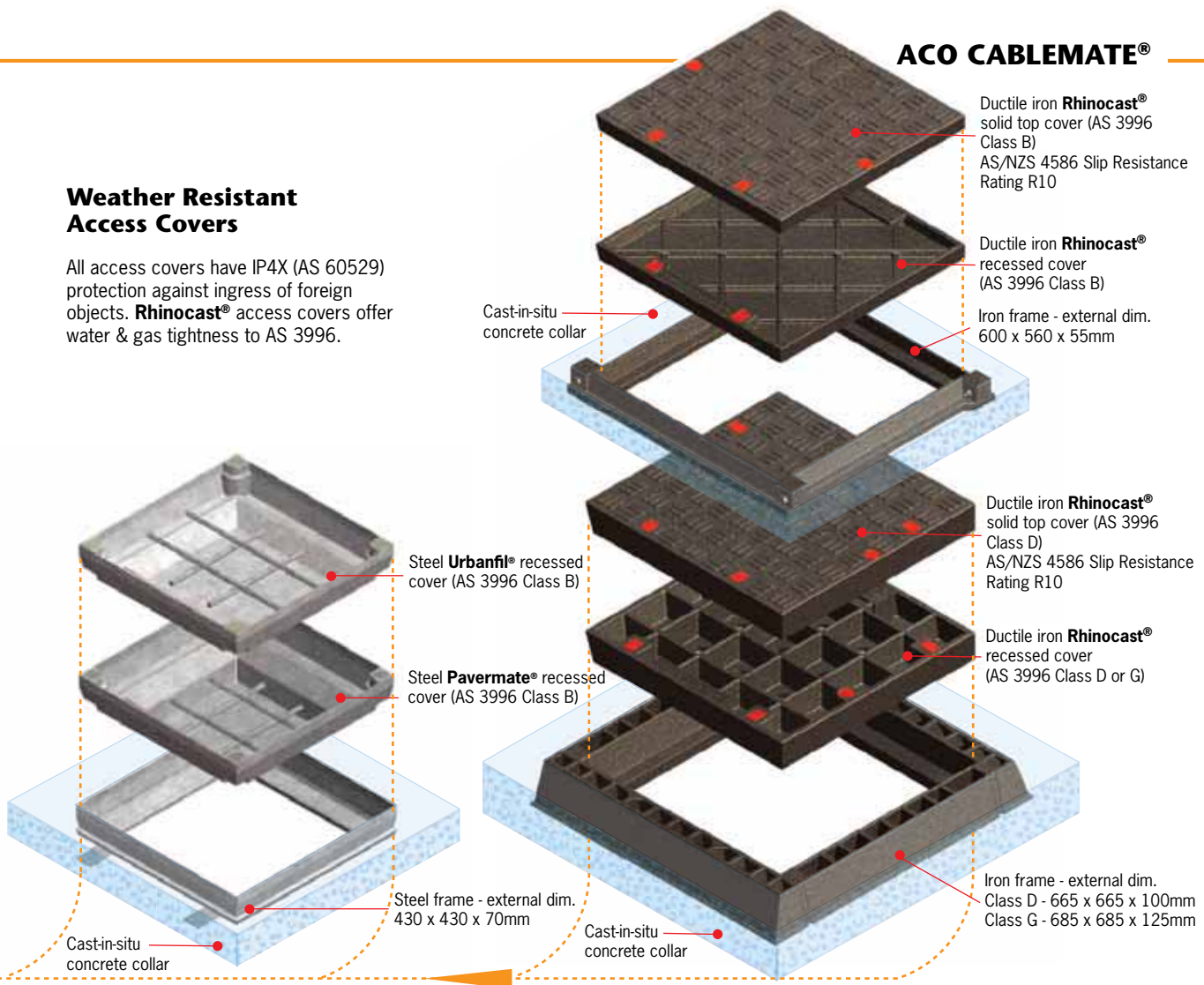
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. Maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

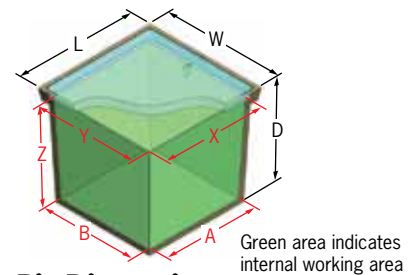


Type 33 Pit Parts List⁴

| Description | Part No. | Weight (kg) |
|---|--------------------|-------------|
| Type 33 polymer concrete pit | 75244 | 19 |
| Type 33 polymer concrete riser (adds 300mm to pit depth) | 75265 | 15 |
| Lids & Covers | Cover ¹ | Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 75282 | 6 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 75299 | 6 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 75303 | 6 |
| Steel lid (AS 3996 Class B) | 73320 | 3 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ² | 81686 | 7 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ² | 81297 | 8 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ³ | 85014 | 28 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ³ | 85249 | 20 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ³ | 89013 | 42 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ³ | 89268 | 46 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ³ | 87016 | 86 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

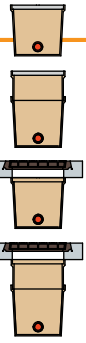


Pit Dimensions

| Internal working area | (mm) |
|-----------------------|------|
| A | 235 |
| B | 235 |
| X | 280 |
| Y | 280 |
| Z | 405 |
| Overall dimensions | (mm) |
| L | 340 |
| W | 340 |
| D | 440 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 45 Pit

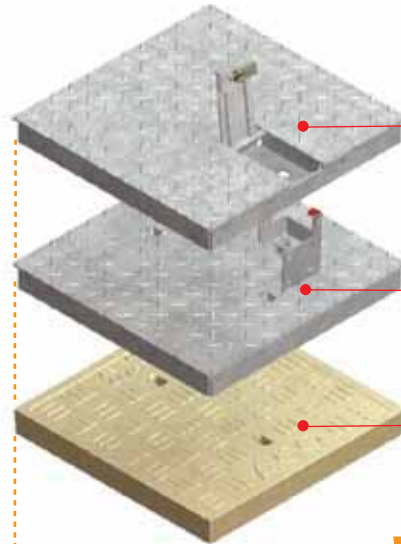
| | | | | | |
|--------|-------|---|---|--------------------|--|
| Length | 510mm | L | W | Up to | |
| Width | 510mm | | D | 900mm (1 riser) | |
| Depth | 600mm | | | 1,200mm (2 risers) | |

Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids

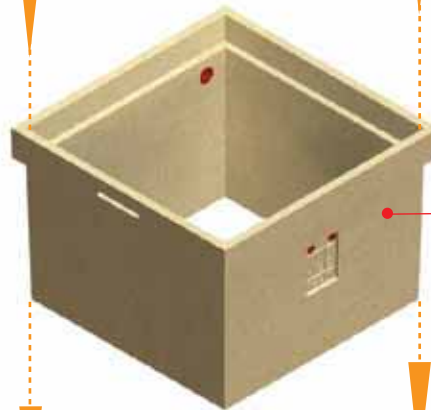


Steel **PowerLok**® lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP2XD (AS 60529) protection against ingress of foreign objects when hatch is closed.

Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

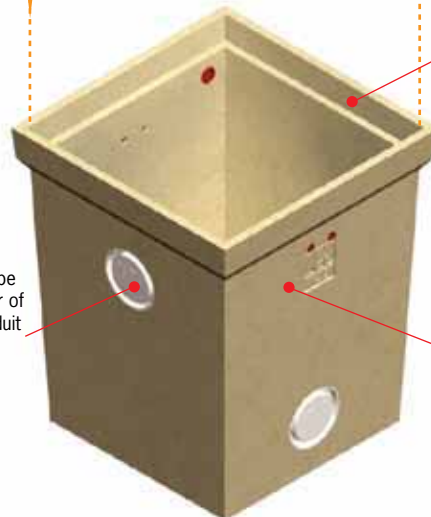
Riser



Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



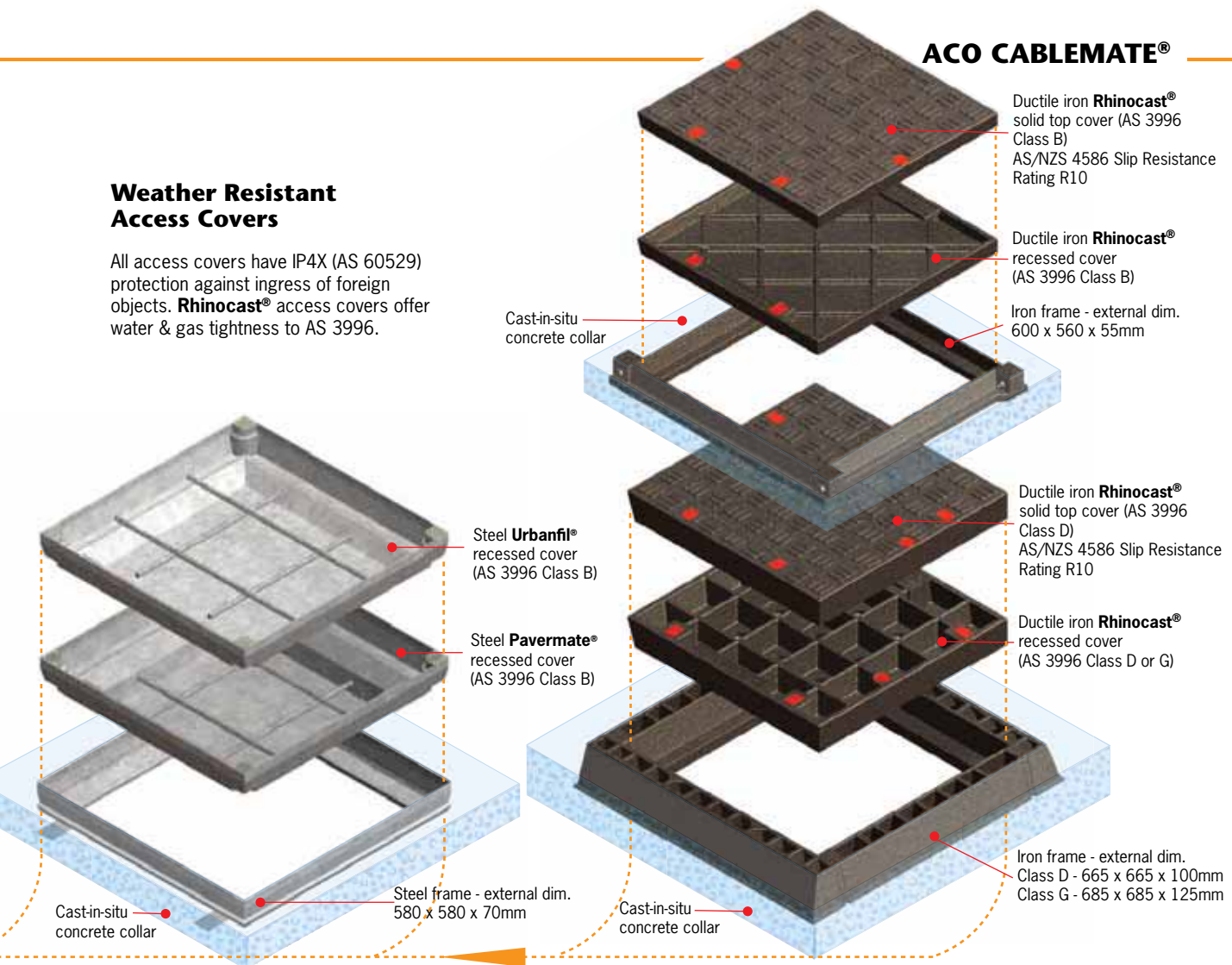
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. Maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

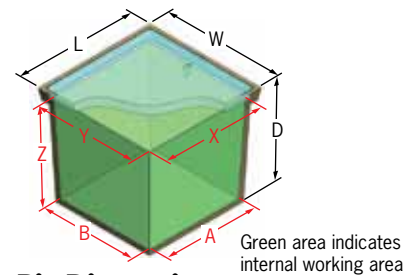


Type 45 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|---|--------------------|-------------|
| Type 45 polymer concrete pit | 75362 | 45 |
| Type 45 polymer concrete riser (adds 300mm to pit depth) | 75389 | 26 |
| Lids & Covers | Cover ¹ | Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 75400 | 15 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 75414 | 15 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 75427 | 15 |
| Steel lid (AS 3996 Class B) | 74521 | 11 |
| Steel PowerLok® lid (AS 3996 Class B) ^{2,3} | 74530 | 14 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ⁴ | 81520 | 11 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ⁴ | 81305 | 12 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ⁵ | 85014 | 28 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ⁵ | 85249 | 20 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ⁵ | 89013 | 42 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ⁵ | 89268 | 46 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ⁵ | 87016 | 86 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).



Pit Dimensions

| Internal working area | (mm) |
|-----------------------|------|
| A | 365 |
| B | 365 |
| X | 421 |
| Y | 421 |
| Z | 532 |
| Overall dimensions | (mm) |
| L | 511 |
| W | 511 |
| D | 600 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 66 Pit

| | | | | |
|--------|-------|---|---|--------------------|
| Length | 665mm | L | W | Up to |
| Width | 665mm | | D | 920mm (1 riser) |
| Depth | 620mm | | | 1,220mm (2 risers) |

Type 66H Pit

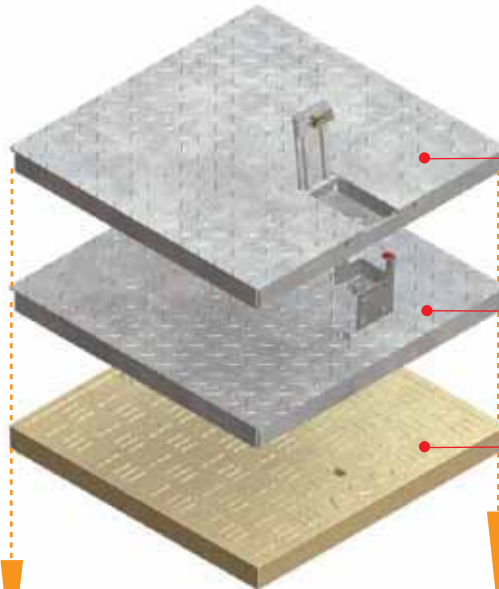
| | | | | |
|--------|-------|---|---|--------------------|
| Length | 665mm | L | W | Up to |
| Width | 665mm | | D | 1,215mm (1 riser) |
| Depth | 915mm | | | 1,515mm (2 risers) |

Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids

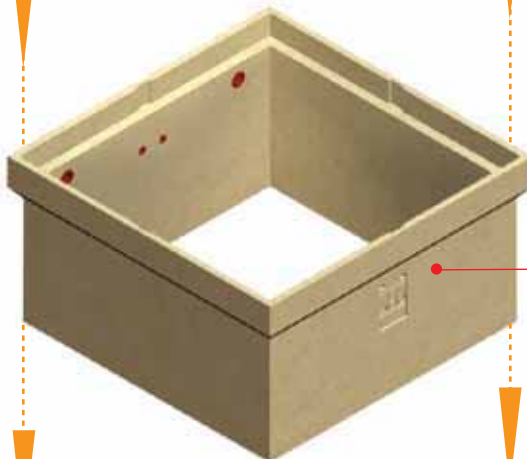


Steel **PowerLok**® lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP2XD (AS 60529) protection against ingress of foreign objects when hatch is closed.

Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Riser

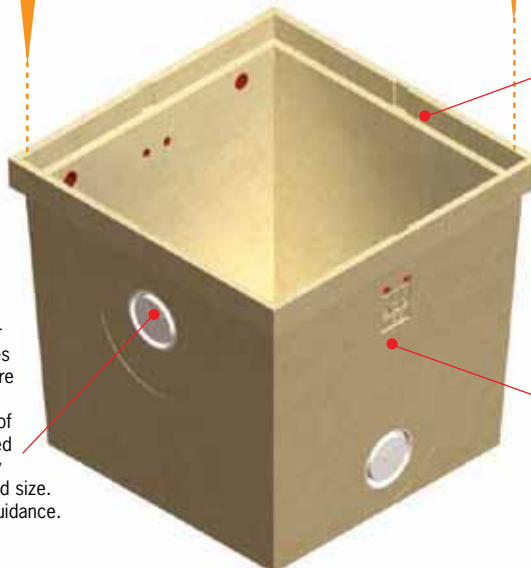


Cast-in-situ concrete collar

Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



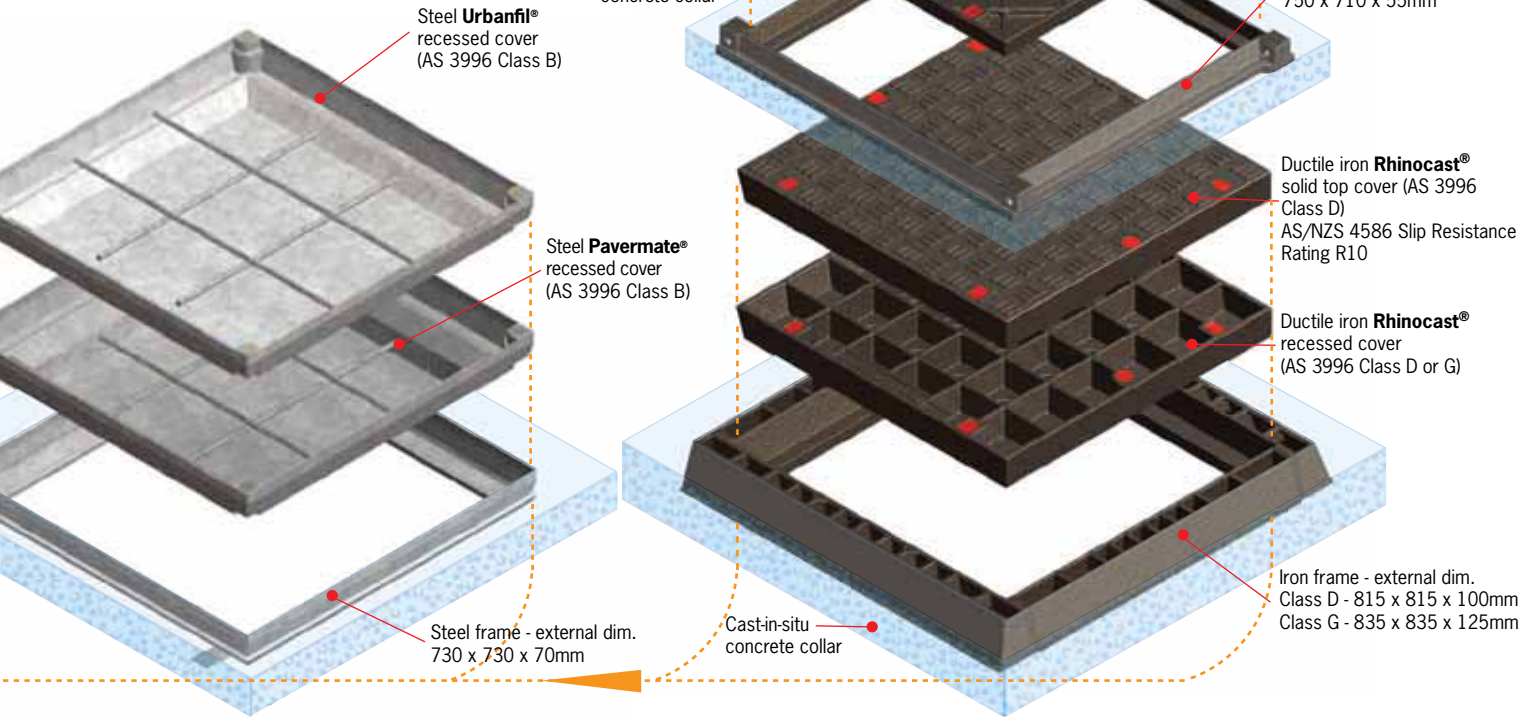
Holesaw guides for conduit entry - holes can be cut anywhere on side walls. Maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

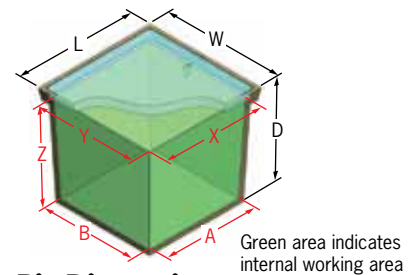


Type 66 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|---|--------------------|-------------|
| Type 66 polymer concrete pit | 75105 | 62 |
| Type 66H polymer concrete pit (915mm deep) | 75226 | 116 |
| Type 66 polymer concrete riser (adds 300mm to pit depth) | 75126 | 37 |
| Lids & Covers | Cover ¹ | Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 75149 | 24 24 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 75154 | 24 24 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 75160 | 24 24 |
| Steel lid (AS 3996 Class B) | 76620 | 17 17 |
| Steel PowerLok® lid (AS 3996 Class B) ^{2,3} | 76630 | 22 22 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ⁴ | 81565 | 15 22 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ⁴ | 81948 | 18 24 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ⁵ | 85045 | 36 60 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ⁵ | 85222 | 35 63 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ⁵ | 89041 | 62 116 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ⁵ | 89235 | 65 125 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ⁵ | 87044 | 135 200 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

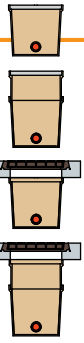


Pit Dimensions

| Internal working area | 66 (mm) | 66H (mm) |
|-------------------------|---------|----------|
| A | 518 | 486 |
| B | 518 | 486 |
| X | 571 | 571 |
| Y | 571 | 571 |
| Z | 550 | 850 |
| Overall dimensions (mm) | | |
| L | 663 | 663 |
| W | 663 | 663 |
| D | 618 | 918 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 99 Pit

Length 1,010mm
Width 1,010mm
Depth 580mm



Up to
880mm (1 riser)
1,180mm (2 risers)

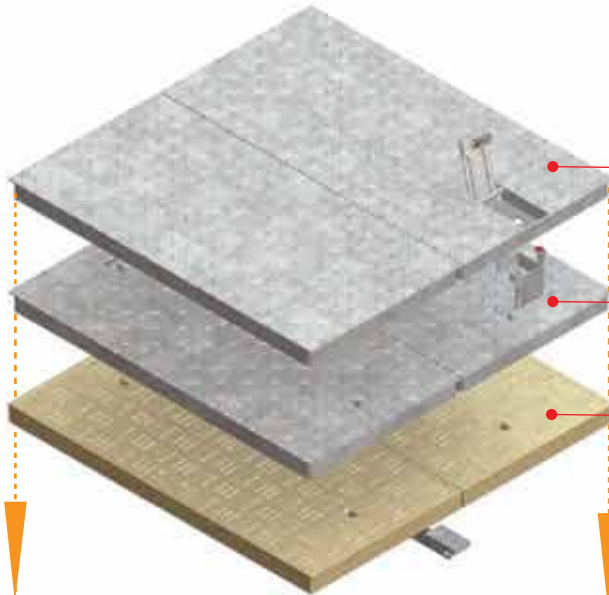


Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids

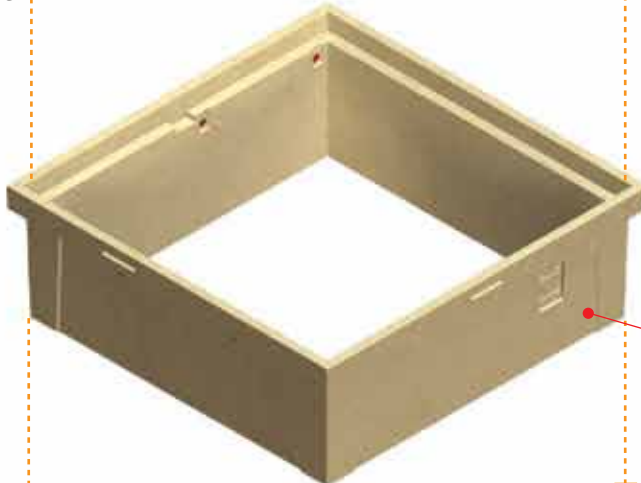


Steel **PowerLok**® 2-part lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP2XD (AS 60529) protection against ingress of foreign objects when hatch is closed.

Steel 2-part lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Polymer concrete 2-part lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

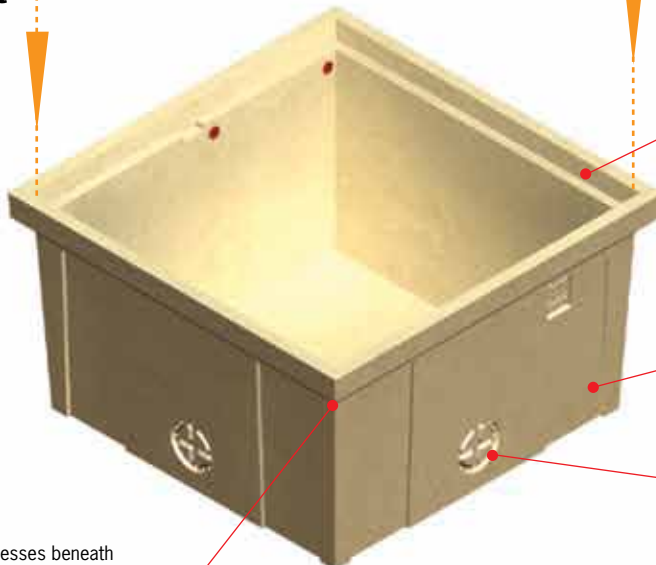
Riser



Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

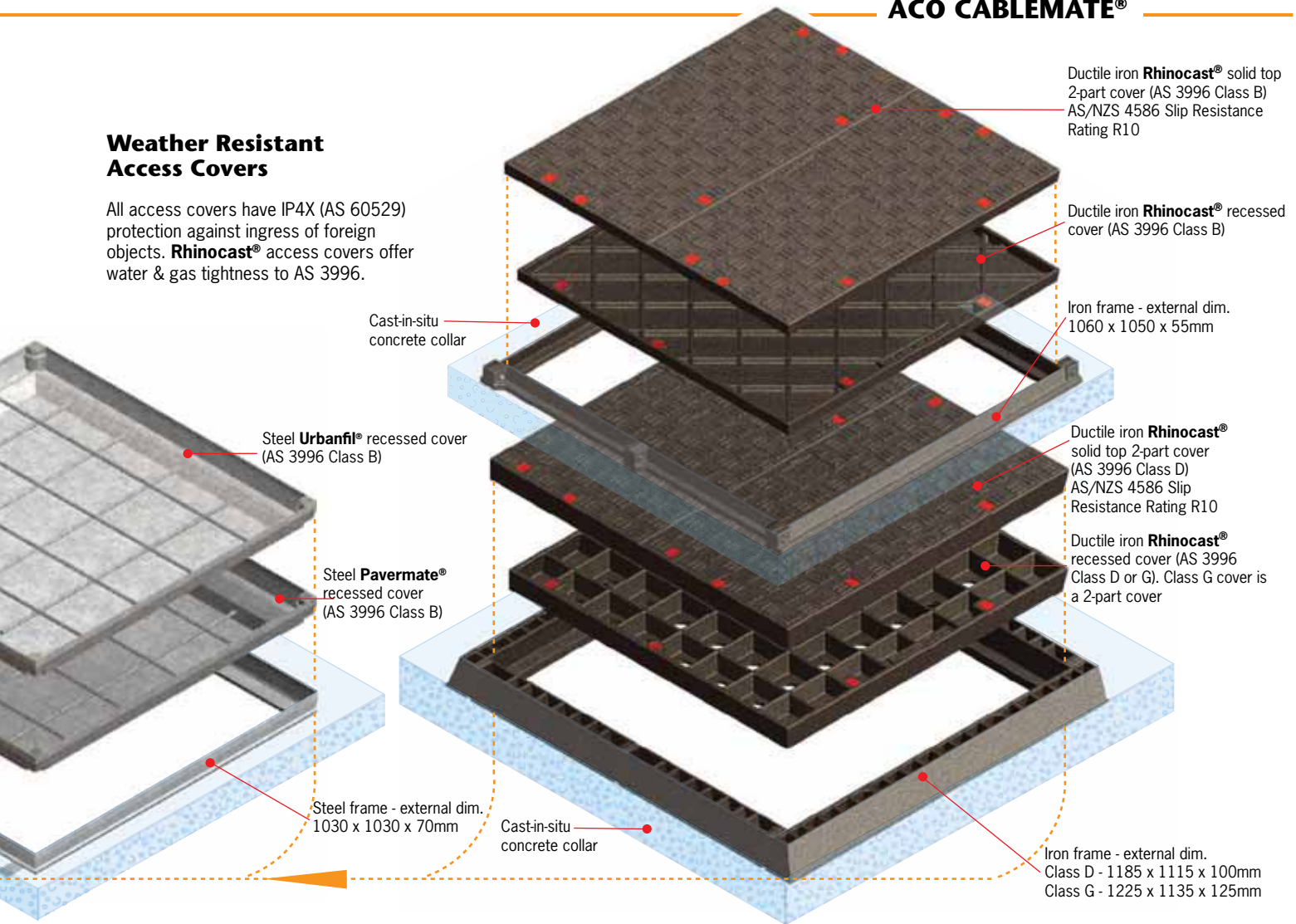
Holesaw guides for conduit entry - holes can be cut anywhere on side walls. The maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Recesses beneath rebate on opposite corners to fit ACO's lifting device. See page 43.

POLYMER CONCRETE

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

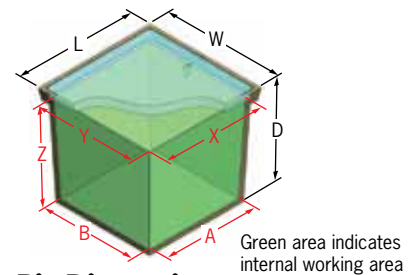


Type 99 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|--|--------------------|-------------|
| Type 99 polymer concrete pit | 75489 | 147 |
| Type 99 polymer concrete riser (adds 300mm to pit depth) | 75500 | 67 |
| Lids & Covers | Cover ¹ | Total |
| Polymer concrete 2-part lid (AS 3996 Class A) - Blank ² | 75525 | 29 62 |
| Polymer concrete 2-part lid (AS 3996 Class A) - Communications ² | 75532 | 29 62 |
| Polymer concrete 2-part lid (AS 3996 Class A) - Electricity ² | 75541 | 29 62 |
| Steel 2-part lid (AS 3996 Class B) ² | 79920 | 20 45 |
| Steel PowerLok® 2-part lid (AS 3996 Class B) ^{2,3} | 79930 | 25 45 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ⁴ | 81645 | 31 40 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ⁴ | 81992 | 35 45 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ⁵ | 85093 | 86 115 |
| Ductile iron Rhinocast® solid top 2-part cover (AS 3996 Class B) ⁵ | 89953 | 48 149 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ⁵ | 89093 | 136 199 |
| Ductile iron Rhinocast® solid top 2-part cover (AS 3996 Class D) ⁵ | 89955 | 80 244 |
| Ductile iron Rhinocast® recessed 2-part cover (AS 3996 Class G) ⁵ | 87568 | 145 380 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

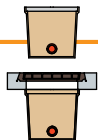


Pit Dimensions

| Internal working area | (mm) |
|-----------------------|------|
| A | 825 |
| B | 825 |
| X | 875 |
| Y | 875 |
| Z | 510 |
| Overall dimensions | (mm) |
| L | 990 |
| W | 990 |
| D | 582 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 52 Pit

Length 505mm
Width 220mm
Depth 435mm



435mm

Product Selection Steps

Once pit type is determined:

1. Select lid or access cover (adds additional depth) to suit project application.

Lids

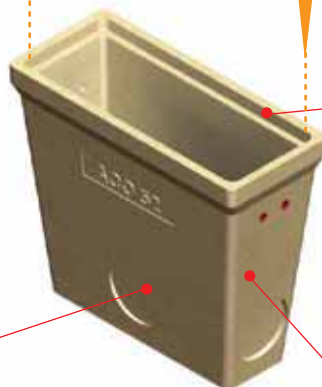


Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.
If a locking lid is required, contact ACO.



Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Pit



Note: Access covers fit above pit, refer to pg 80 for installation guidelines.

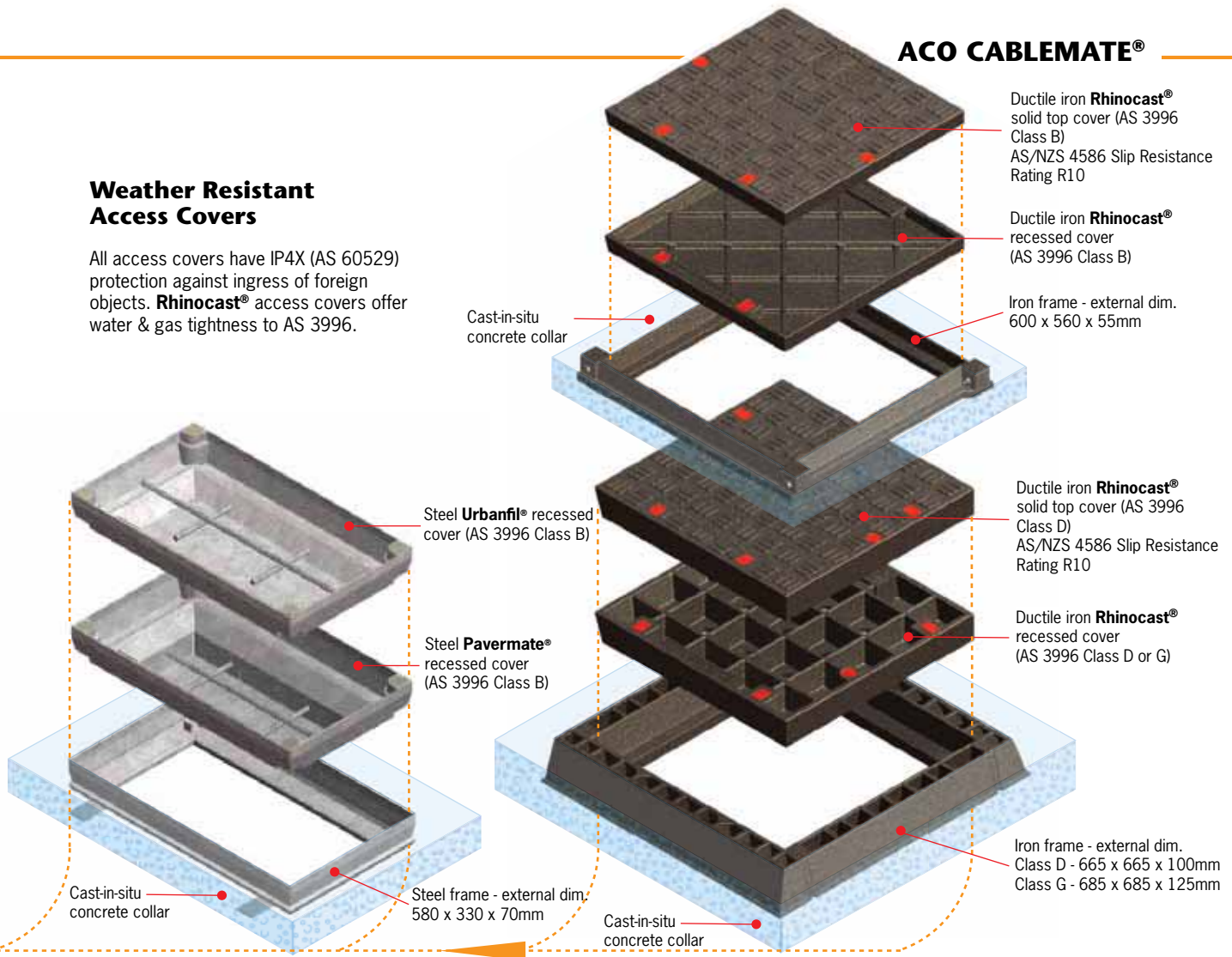
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. The maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

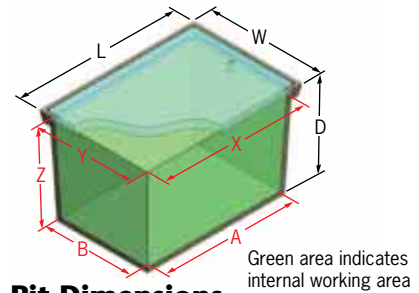


Type 52 Pit Parts List⁴

| Description | Part No. | Weight (kg) | |
|---|----------|--------------------|-------|
| Type 52 polymer concrete pit | 74651 | 19 | |
| Lids & Covers | | Cover ¹ | Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 74675 | 5 | 5 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 74682 | 5 | 5 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 74696 | 5 | 5 |
| Steel lid (AS 3996 Class B) | 75220 | 3 | 3 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ² | 80150 | 8 | 13 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ² | 80151 | 8 | 13 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ³ | 85014 | 28 | 40 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ³ | 85249 | 20 | 44 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ³ | 89013 | 42 | 83 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ³ | 89268 | 46 | 86 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ³ | 87016 | 86 | 138 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

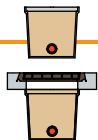


Pit Dimensions

| Internal working area (mm) | |
|----------------------------|-----|
| A | 398 |
| B | 111 |
| X | 440 |
| Y | 148 |
| Z | 400 |
| Overall dimensions (mm) | |
| L | 515 |
| W | 228 |
| D | 436 |

Notes:

- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 63 Pit

Length 645mm
Width 300mm
Depth 740mm



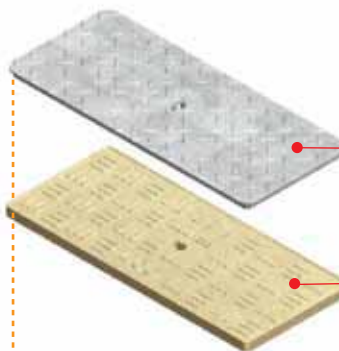
740mm

Product Selection Steps

Once pit type is determined:

1. Select lid or access cover (adds additional depth) to suit project application.

Lids



Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug. If a locking lid is required, contact ACO.

Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Pit



Note: Access covers fit above pit, refer to pg 80 for installation guidelines.

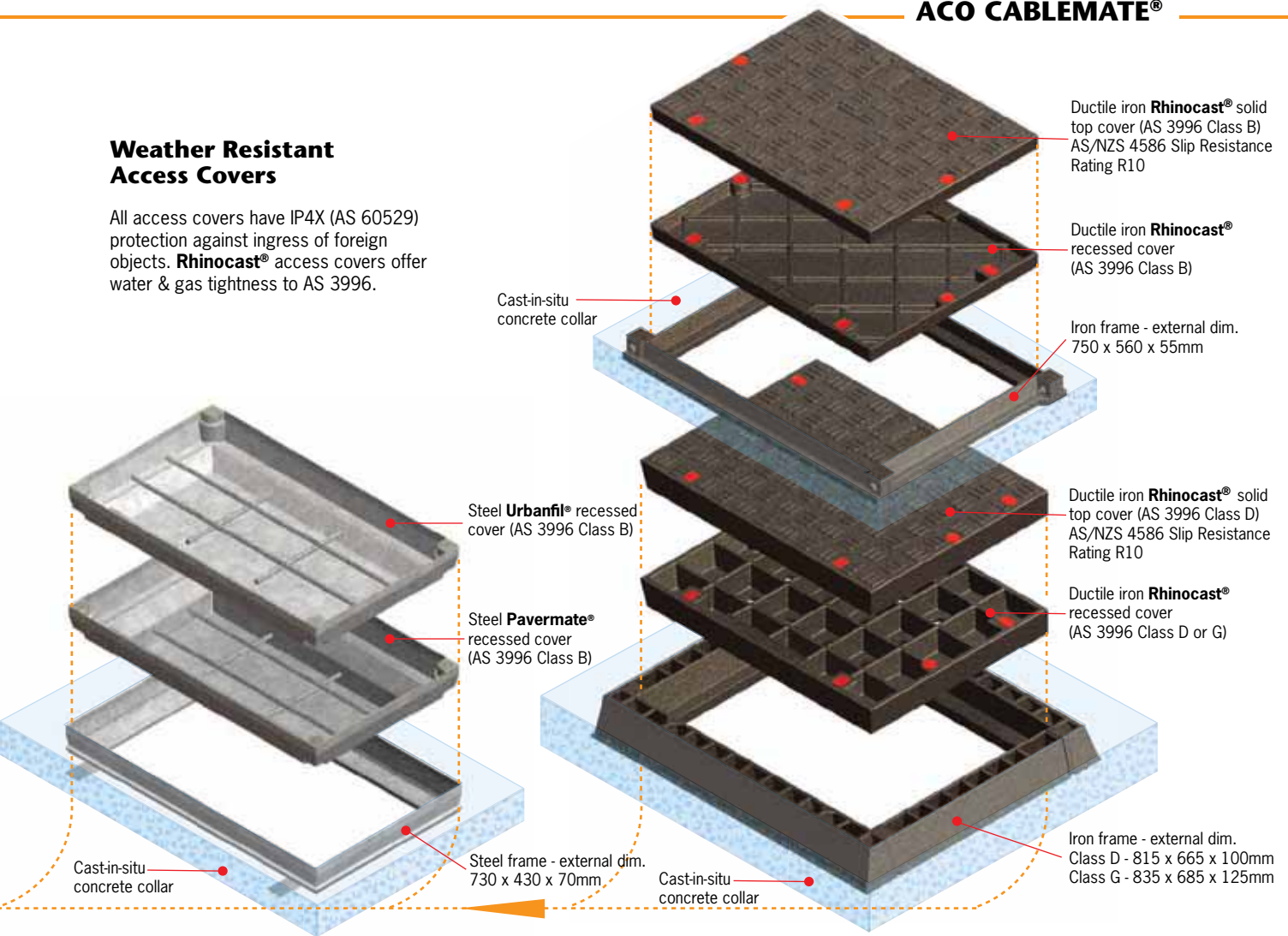
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. The maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

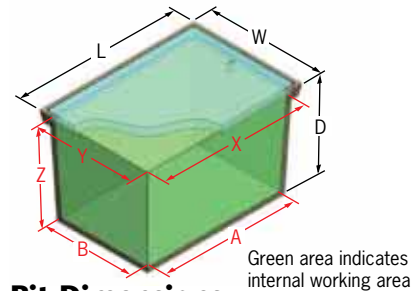


Type 63 Pit Parts List⁴

| Description | Part No. | Weight (kg) | |
|--|----------|--------------------|-------|
| Type 63 polymer concrete pit | 74747 | 52 | |
| Lids & Covers | | Cover ¹ | Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 74765 | 9 | 9 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 74772 | 9 | 9 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 74786 | 9 | 9 |
| Steel lid (AS 3996 Class B) | 76320 | 6 | 6 |
| Steel Urbanfil ® recessed cover (AS 3996 Class B) ² | 81225 | 11 | 16 |
| Steel Pavermate ® recessed cover (AS 3996 Class B) ² | 81340 | 11 | 16 |
| Ductile iron Rhinocast ® recessed cover (AS 3996 Class B) ³ | 85037 | 28 | 49 |
| Ductile iron Rhinocast ® solid top cover (AS 3996 Class B) ³ | 85236 | 28 | 47 |
| Ductile iron Rhinocast ® recessed cover (AS 3996 Class D) ³ | 89034 | 51 | 99 |
| Ductile iron Rhinocast ® solid top cover (AS 3996 Class D) ³ | 89251 | 51 | 105 |
| Ductile iron Rhinocast ® recessed cover (AS 3996 Class G) ³ | 87039 | 104 | 163 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

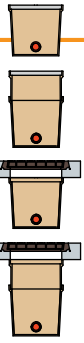


Pit Dimensions

| Internal working area (mm) | |
|----------------------------|-----|
| A | 502 |
| B | 153 |
| X | 576 |
| Y | 227 |
| Z | 707 |
| Overall dimensions (mm) | |
| L | 652 |
| W | 303 |
| D | 743 |

Notes:

- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 95 Pit

| | | | | |
|--------|-------|---|---|--------------------|
| Length | 975mm | L | W | Up to |
| Width | 520mm | | | 890mm (1 riser) |
| Depth | 590mm | D | | 1,190mm (2 risers) |

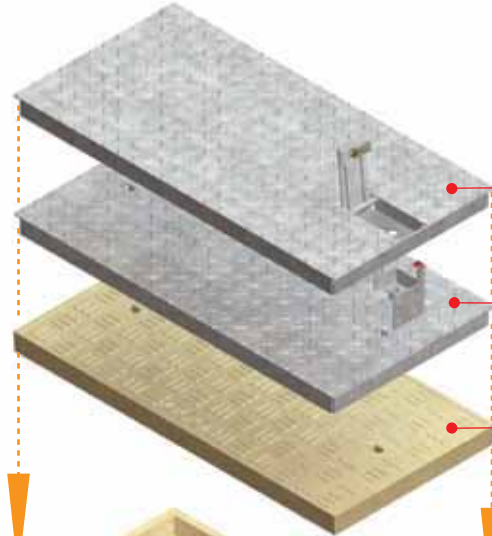


Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids



Steel **PowerLok**® lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP2XD (AS 60529) protection against ingress of foreign objects when hatch is closed.

Steel lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Polymer concrete lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

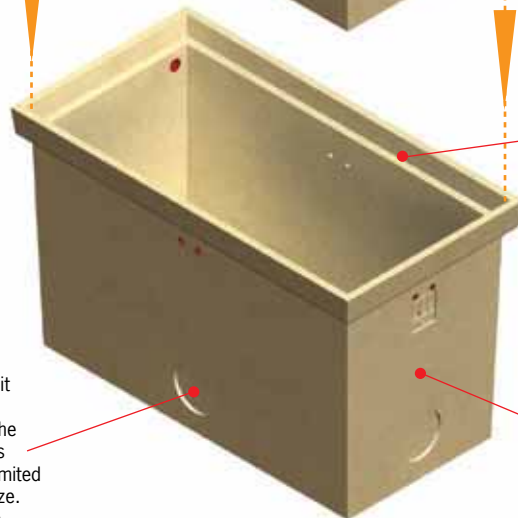
Riser



Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



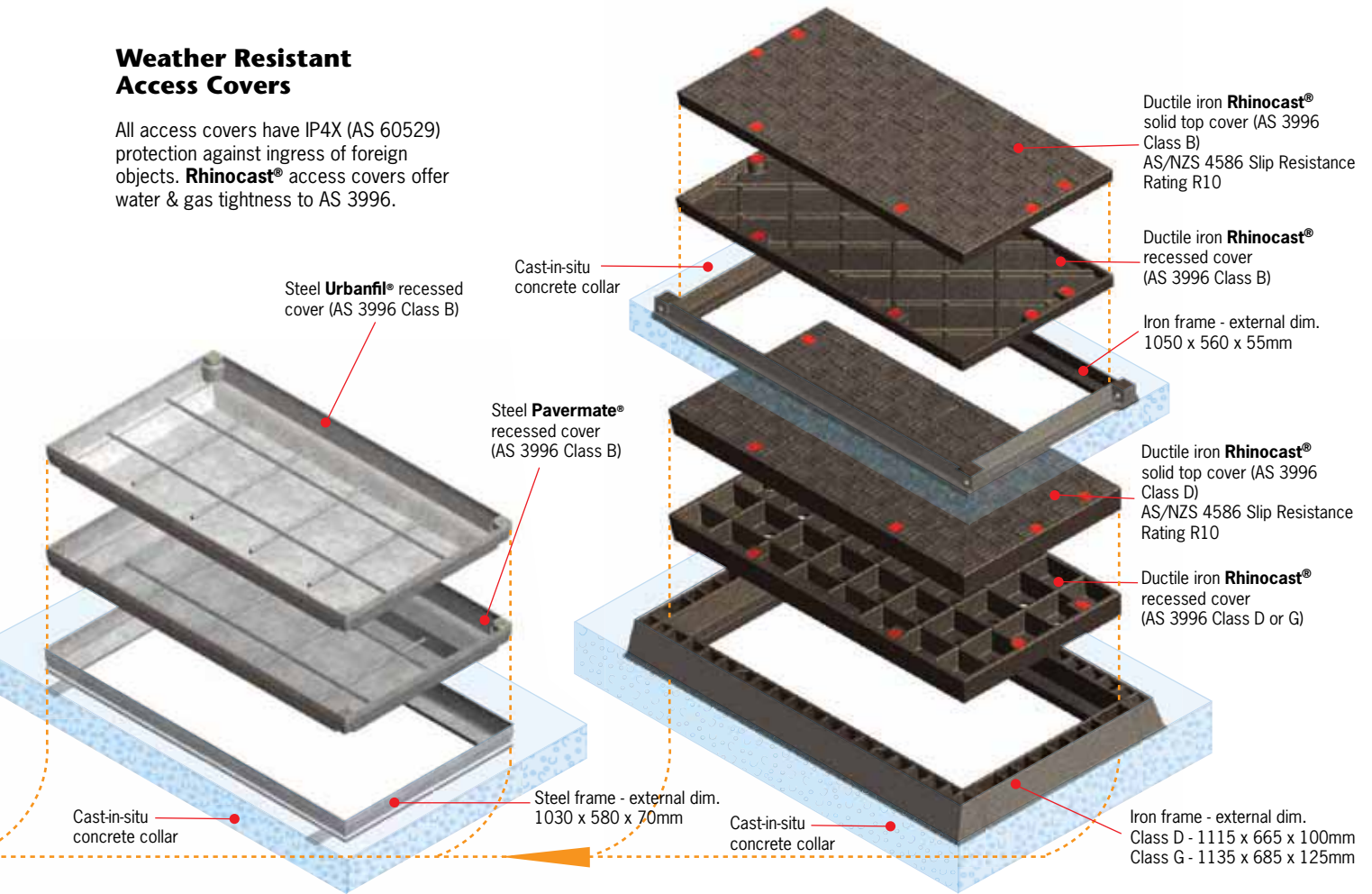
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. The maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

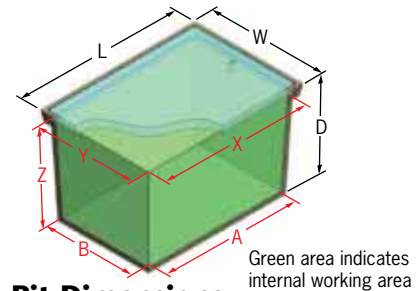


Type 95 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|---|--------------|--------------------------|
| Type 95 polymer concrete pit | 74845 | 84 |
| Type 95 polymer concrete riser (adds 300mm to pit depth) | 74861 | 45 |
| Lids & Covers | | Cover ¹ Total |
| Polymer concrete lid (AS 3996 Class A) - Blank | 74886 | 29 29 |
| Polymer concrete lid (AS 3996 Class A) - Communications | 74893 | 29 29 |
| Polymer concrete lid (AS 3996 Class A) - Electricity | 74904 | 29 29 |
| Steel lid (AS 3996 Class B) | 79520 | 20 20 |
| Steel PowerLok® lid (AS 3996 Class B) ^{2, 3} | 79530 | 25 25 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ⁴ | 81661 | 18 26 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ⁴ | 81338 | 20 28 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ⁵ | 85119 | 45 63 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ⁵ | 85208 | 48 83 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ⁵ | 89124 | 72 130 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ⁵ | 89215 | 80 139 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ⁵ | 87082 | 145 216 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

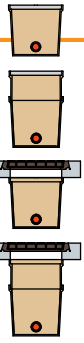


Pit Dimensions

| Internal working area (mm) | |
|----------------------------|-----|
| A | 825 |
| B | 367 |
| X | 876 |
| Y | 418 |
| Z | 520 |
| Overall dimensions (mm) | |
| L | 978 |
| W | 510 |
| D | 588 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 96 Pit

| | | | | |
|--------|-------|---|---|--------------------|
| Length | 995mm | L | W | Up to |
| Width | 695mm | | | 920mm (1 riser) |
| Depth | 620mm | D | | 1,220mm (2 risers) |

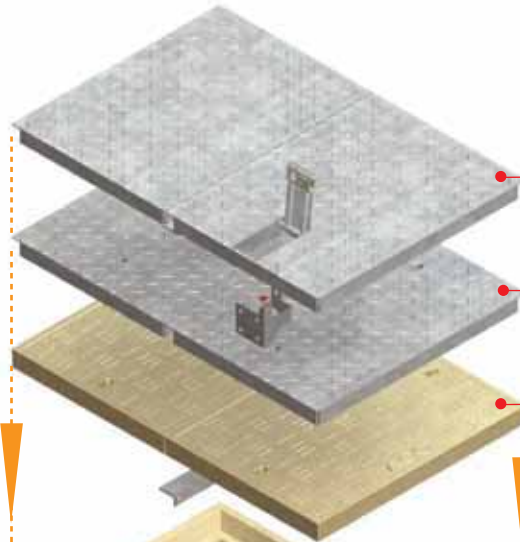
Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

POLYMER CONCRETE

Lids

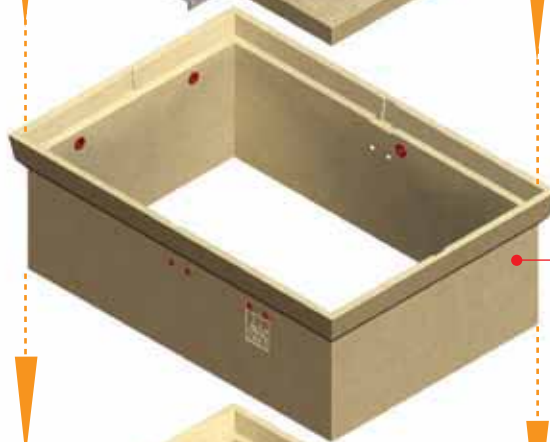


Steel **PowerLok**® 2-part lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP2XD (AS 60529) protection against ingress of foreign objects when hatch is closed.

Steel 2-part lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

Polymer concrete 2-part lid (AS 3996 Class A)
AS/NZS 4586 Slip Resistance Rating R10.
IP4X (AS 60529) protection against ingress of foreign objects if fitted with universal plug.

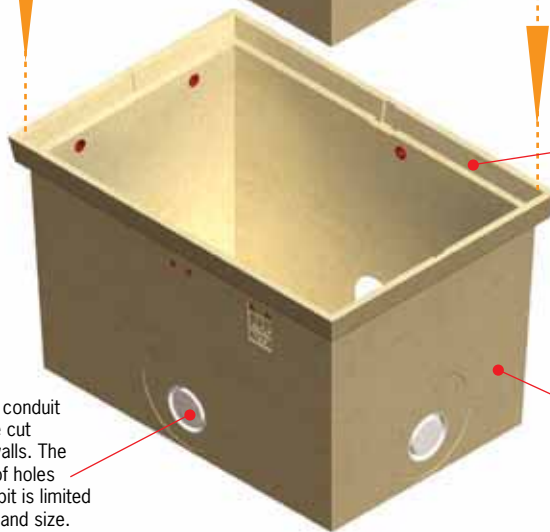
Riser



Note: Access covers fit above pit/riser, refer to pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate is identical to pit rebate and with lid, offers the same IP protection. Can be cut to required height. ACO recommends no more than 2 risers. Each riser adds 300mm depth.

Pit



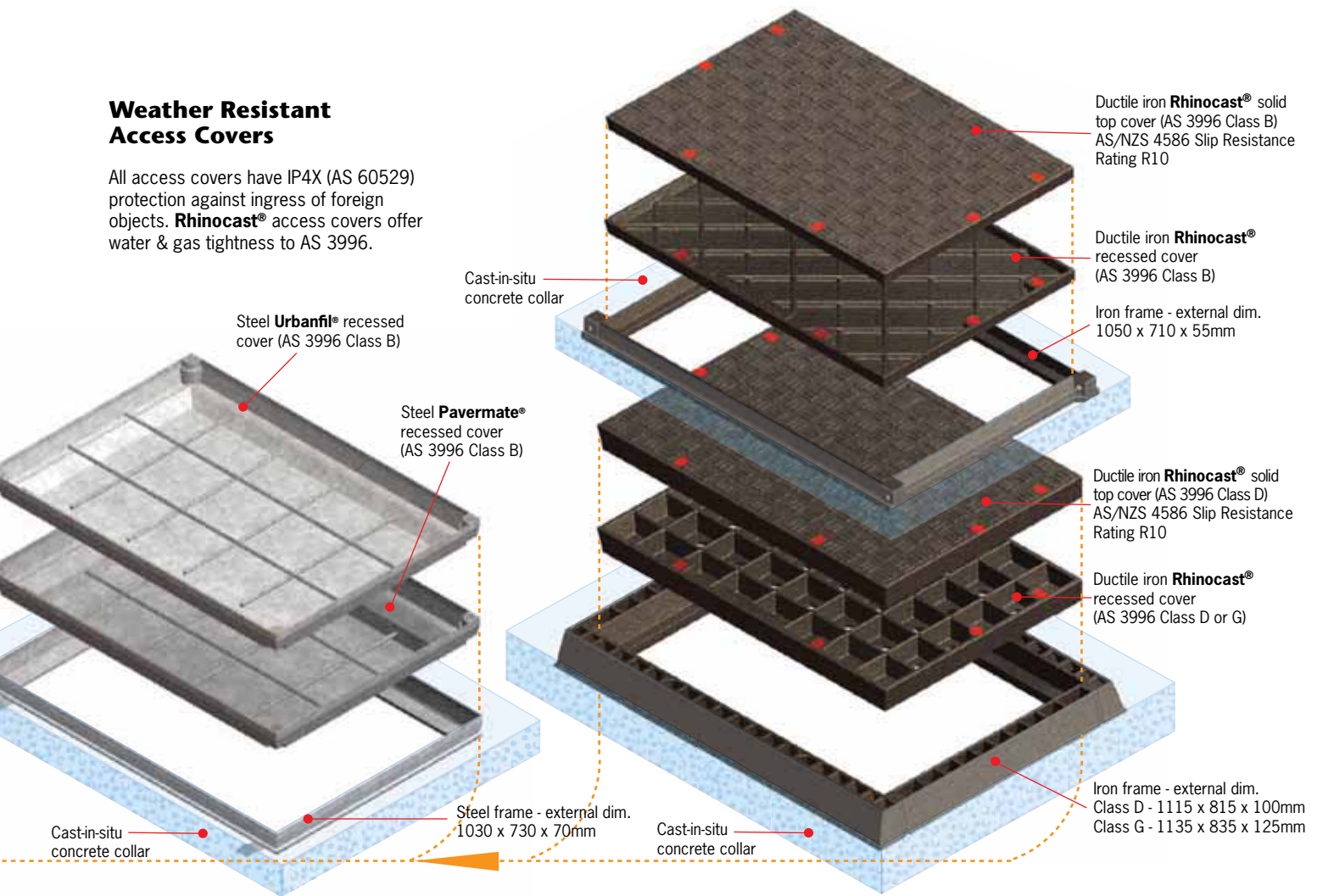
Lids fit into rebate at top of pit, whilst access covers must be installed in a cast in situ concrete collar.

Holesaw guides for conduit entry - holes can be cut anywhere on side walls. The maximum number of holes recommended per pit is limited by conduit quantity and size. Contact ACO for guidance.

Polymer concrete pit construction offers excellent strength to weight ratio, excellent electrical resistivity, low porosity, and high resistance to chemicals, weathering, biological attack.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

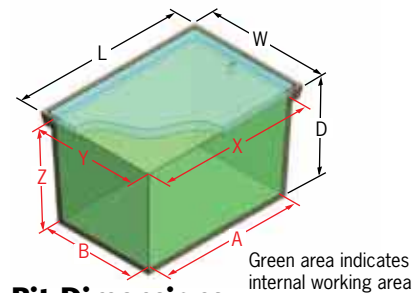


Type 96 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|---|--------------|--------------------------|
| Type 96 polymer concrete pit | 74429 | 95 |
| Type 96 polymer concrete riser (adds 300mm to pit depth) | 74463 | 55 |
| Lids & Covers | | Cover ¹ Total |
| Polymer concrete 2-part lid (AS 3996 Class A) - Blank ² | 74560 | 22 46 |
| Polymer concrete 2-part lid (AS 3996 Class A) - Communications ² | 74555 | 22 46 |
| Polymer concrete 2-part lid (AS 3996 Class A) - Electricity ² | 74550 | 22 46 |
| Steel 2-part lid (AS 3996 Class B) | 79620 | 15 30 |
| Steel PowerLok® 2-part lid (AS 3996 Class B) ^{2,3} | 79630 | 20 39 |
| Steel Urbanfil® recessed cover (AS 3996 Class B) ⁴ | 82018 | 21 30 |
| Steel Pavermate® recessed cover (AS 3996 Class B) ⁴ | 81364 | 22 30 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class B) ⁵ | 85078 | 57 83 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class B) ⁵ | 85253 | 57 87 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class D) ⁵ | 89072 | 88 149 |
| Ductile iron Rhinocast® solid top cover (AS 3996 Class D) ⁵ | 89276 | 102 165 |
| Ductile iron Rhinocast® recessed cover (AS 3996 Class G) ⁵ | 87075 | 180 266 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).

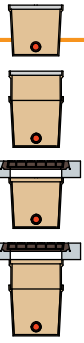


Pit Dimensions

| Internal working area (mm) | |
|----------------------------|-----|
| A | 837 |
| B | 527 |
| X | 891 |
| Y | 581 |
| Z | 550 |
| Overall dimensions (mm) | |
| L | 983 |
| W | 683 |
| D | 618 |

Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Type 8 Pit

| | | | | | |
|--------|---------|---|---|--------------------|--|
| Length | 1,395mm | L | W | Up to | |
| Width | 580mm | | D | 1,200mm (1 riser) | |
| Depth | 900mm | | | 1,500mm (2 risers) | |

Product Selection Steps

Once pit type is determined:

1. Determine if riser(s) is required.
2. Select lid or access cover (adds additional depth) to suit project application.

Lids

Steel **PowerLok**® 2-part lid
(AS 3996 Class B)
AS/NZS 4586 Slip Resistance
Rating R10.
IP2XD (AS 60529) protection
against ingress of foreign objects
when hatch is closed.

Steel 2-part lid (AS 3996 Class B)
AS/NZS 4586 Slip Resistance
Rating R10.
IP4X (AS 60529) protection
against ingress of foreign objects
if fitted with universal plug.

Cement concrete 2-part lid
(AS 3996 Class A)
AS/NZS 4586 Slip Resistance
Rating R9.
IP4X (AS 60529) protection
against ingress of foreign objects
if fitted with universal plug.

Cast-in-situ
concrete collar

Riser

Note: Access covers fit above pit/riser, refer to
pg 80 for installation guidelines.

Optional riser to increase pit depth, riser rebate
is identical to pit rebate and with lid, offers
the same IP protection. Can be cut to required
height. ACO recommends no more than 2 risers.
Each riser adds 300mm depth.

Pit

Lids fit into rebate at top of pit, whilst access
covers must be installed in a cast in situ
concrete collar.

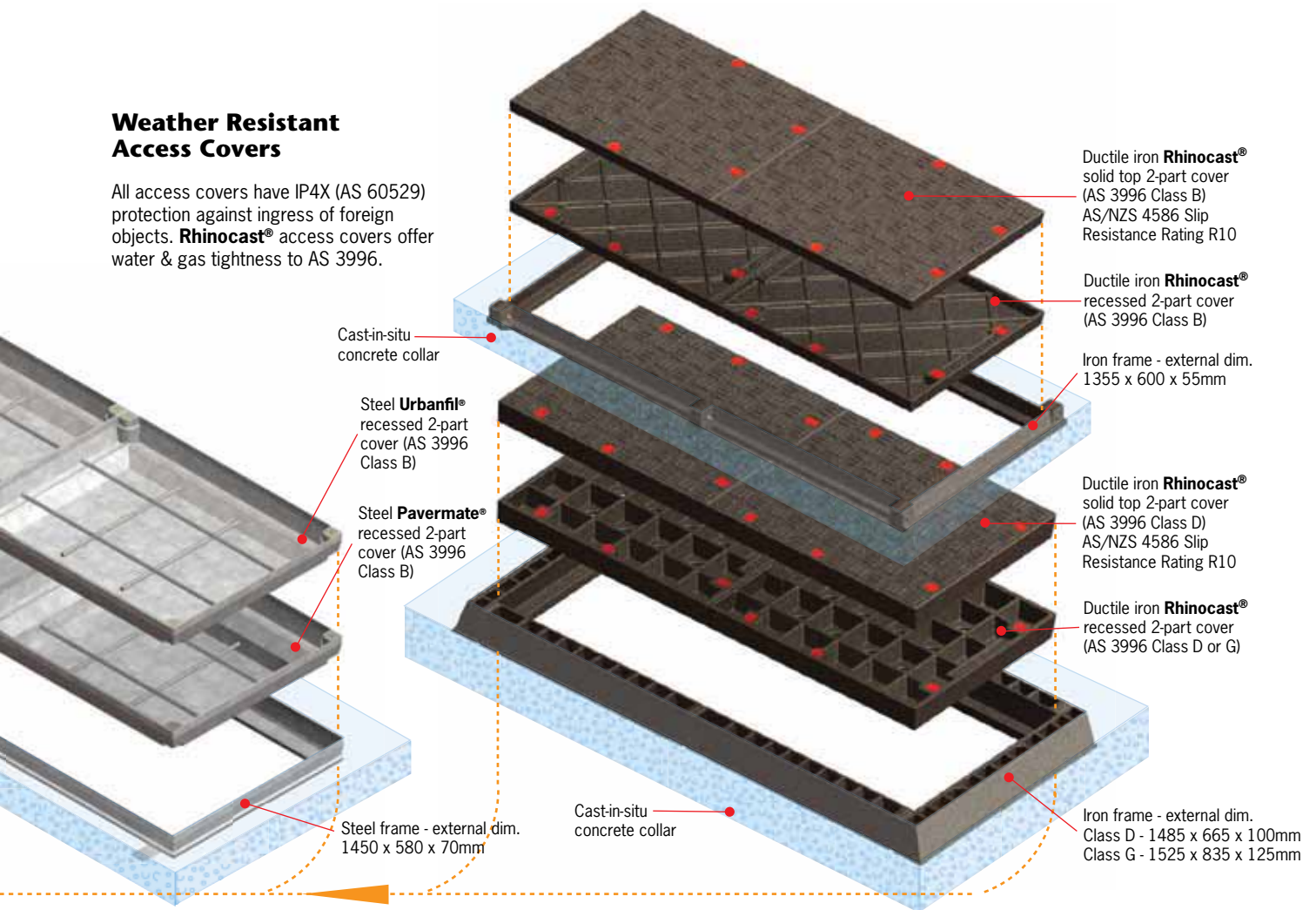
Polymer concrete pit construction offers
excellent strength to weight ratio, excellent
electrical resistivity, low porosity, and high
resistance to chemicals, weathering, biological
attack.

Holesaw guides for conduit entry - holes can
be cut anywhere on side walls. The maximum
number of holes recommended per pit is limited
by conduit quantity and size. Contact ACO for
guidance.

Recesses beneath rebate on opposite corners to
fit ACO's lifting device. See page 43.

Weather Resistant Access Covers

All access covers have IP4X (AS 60529) protection against ingress of foreign objects. **Rhinocast®** access covers offer water & gas tightness to AS 3996.

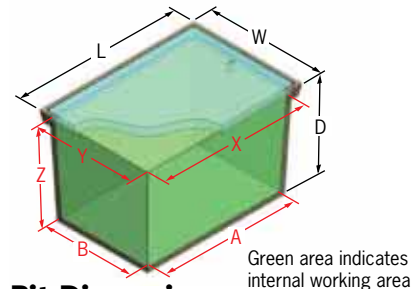


Type 8 Pit Parts List⁶

| Description | Part No. | Weight (kg) |
|--|--------------|--------------------------|
| Type 8 polymer concrete pit | 74991 | 162 |
| Type 8 polymer concrete riser (adds 300mm to pit depth) | 73419 | 85 |
| Lids & Covers | | Cover ¹ Total |
| Cement concrete 2-part lid (AS 3996 Class A) - Blank ² | 75010 | 33 69 |
| Cement concrete 2-part lid (AS 3996 Class A) - Communications ² | 75011 | 33 69 |
| Cement concrete 2-part lid (AS 3996 Class A) - Electricity ² | 75012 | 33 69 |
| Steel 2-part lid (AS 3996 Class B) | 76820 | 15 31 |
| Steel PowerLok® 2-part lid (AS 3996 Class B) ^{2,3} | 76830 | 20 39 |
| Steel Urbanfil® recessed 2-part cover (AS 3996 Class B) ⁴ | 82567 | 13 39 |
| Steel Pavermate® recessed 2-part cover (AS 3996 Class B) ⁴ | 82373 | 15 41 |
| Ductile iron Rhinocast® recessed 2-part cover (AS 3996 Class B) ⁵ | 85433 | 30 91 |
| Ductile iron Rhinocast® solid top 2-part cover (AS 3996 Class B) ⁵ | 86853 | 28 89 |
| Ductile iron Rhinocast® recessed 2-part cover (AS 3996 Class D) ⁵ | 89431 | 51 182 |
| Ductile iron Rhinocast® solid top 2-part cover (AS 3996 Class D) ⁵ | 80855 | 51 169 |
| Ductile iron Rhinocast® recessed 2-part cover (AS 3996 Class G) ⁵ | 87463 | 135 358 |

Notes:

- Lid & access cover weights are provided as lifting weight (individual cover parts) and total weight. Recessed cover weights do not include pavement infill; for approx. lifting weight - **Urbanfil®**/**Pavermate®** covers - multiply weight by '7'; **Rhinocast®** covers multiply weight by '1.5'.
- All lids are supplied with brackets and support bars where applicable.
- PowerLok®** lids supplied with locking bolt (padlock not supplied).
- Optional brass edging (Specify 'BE' after part number).
- Optional locking, brass or stainless steel edging in 12mm or 40mm heights (Specify 'BE' or 'SS' and height after part number).
- For Accessories (e.g. identification plates, divider brackets, cable hanger brackets see pg 43).



Pit Dimensions

| Internal working area (mm) | |
|----------------------------|------|
| A | 1168 |
| B | 358 |
| X | 1251 |
| Y | 441 |
| Z | 830 |
| Overall dimensions (mm) | |
| L | 1351 |
| W | 541 |
| D | 902 |

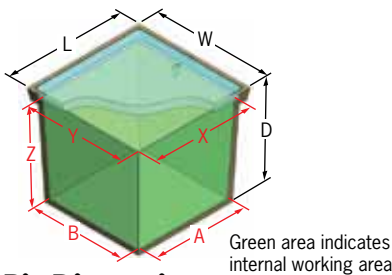
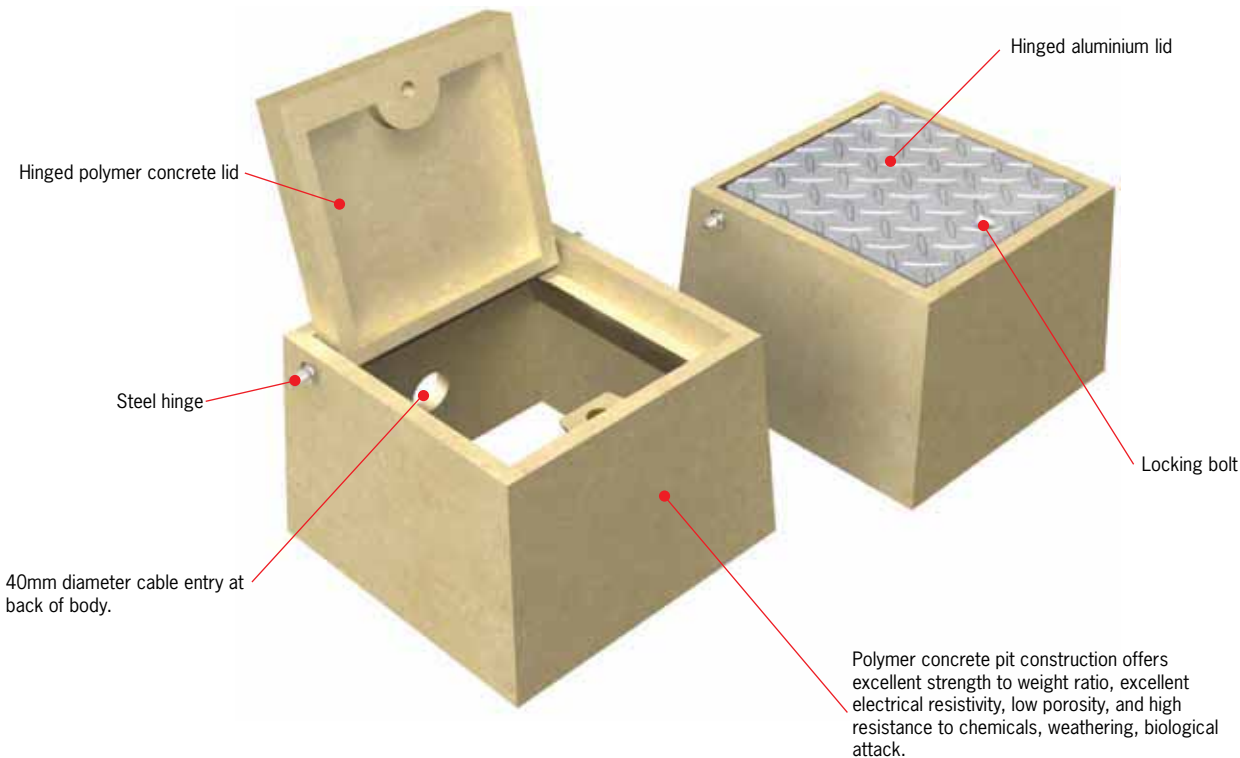
Notes:

- Using risers will increase pit depth (Z & D) by depth of riser.
- Access covers will increase depth of pit by height of concrete collar - allowance should be made for concrete collar during pit installation. See pg 82 for excavation details.



Earth Rod Pit

| | | | |
|--------|-------|---|---|
| Length | 200mm | L | W |
| Width | 200mm | | D |
| Depth | 150mm | | |



Earth Rod Pit Parts List

| Description | Part No. | Weight (kg) |
|---|----------|-------------|
| PEP22 Earth Rod Pit with aluminium lid | 75780 | 4 |
| PEP22 Earth Rod Pit with polymer concrete lid | 75767 | 5 |

Pit Dimensions

| Internal working area (mm) | |
|----------------------------|-----|
| A | 195 |
| B | 195 |
| X | 150 |
| Y | 110 |
| Z | 120 |
| Overall dimensions (mm) | |
| L | 220 |
| W | 220 |
| D | 150 |

Pit Accessories

To facilitate the installation of cable enclosures along a cable route and to satisfy specific user requirements, a wide range of accessories is offered.

Accessories are designed to assist with installation, services identification, maintenance and keyhole/IP protection.

Polymer concrete pits and plastic pits may require different accessories. The table below will help guide your selection. If in doubt, contact ACO.

Accessories

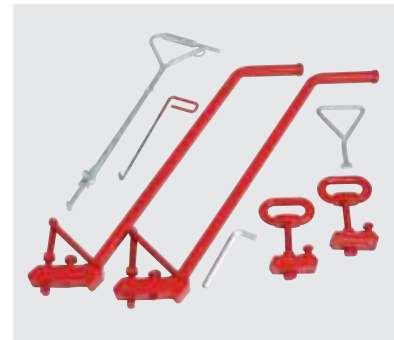
| Description | Compatible with: | | Part No. | Weight (kg) |
|--|------------------|--------------|----------|-------------|
| | Polymer Concrete | Plastic Pits | | |
| Pit Additions | | | | |
| Pit divider angles | ✓ | | 76514 | 0.35 |
| Hanger brackets | ✓ | | 76509 | 0.15 |
| Steel Lid ID | | | | |
| Brass plate - Electricity | ✓ | ✓ | 50275 | 0.05 |
| Brass plate - Communications | ✓ | ✓ | 50269 | 0.05 |
| Brass plate - Gas | ✓ | ✓ | 77420 | 0.05 |
| PowerLok® Assembly | | | | |
| PowerLok® bracket packet¹ | ✓ | ✓ | 76510 | 0.80 |
| Pit Maintenance | | | | |
| Polymer concrete repair kit (1L) | ✓ | | 02163 | 1.40 |
| PowerLok® tool (pg 20) | ✓ | ✓ | 01318 | 0.20 |
| Cement concrete lid lifter | ✓ | ✓ | 84307 | 1.15 |
| Urbanfil®/Pavermate®: lifting key short handle | ✓ | ✓ | 84306 | 0.40 |
| Urbanfil®/Pavermate®: allen locking key | ✓ | ✓ | 84313 | 0.25 |
| Rhinocast®: lifting key - short handle (pair) | ✓ | ✓ | 84654 | 3.60 |
| Rhinocast®: lifting key - long handle (pair) | ✓ | ✓ | 84854 | 8.10 |
| Rhinocast®: sealing grease 4kg | ✓ | ✓ | 73131 | 4.40 |
| Rhinocast®: sealing grease 20kg | ✓ | ✓ | 73154 | 21.80 |
| Installation Devices² | | | | |
| Certified pit lifter (Type 8 & 99 pits only) | ✓ | | 84308 | 6.10 |
| Holesaw: sintered 95mm system - hex shaft | ✓ | | 99096 | 0.90 |
| Holesaw: sintered 117mm system - hex shaft | ✓ | | 99111 | 1.25 |
| Holesaw: sintered 127mm system - hex shaft | ✓ | | 99121 | 1.30 |
| Holesaw: sintered 152mm system - hex shaft | ✓ | | 99151 | 1.85 |
| Holesaw: sintered 180mm system - hex shaft | ✓ | | 99171 | 1.95 |
| Holesaw: sintered 95mm system - SDS | ✓ | | 99095 | 0.85 |
| Holesaw: sintered 117mm system - SDS | ✓ | | 99110 | 1.35 |
| Holesaw: sintered 127mm system - SDS | ✓ | | 99120 | 1.35 |
| Holesaw: sintered 152mm system - SDS | ✓ | | 99150 | 2.00 |
| Holesaw: sintered 180mm system - SDS | ✓ | | 99170 | 2.55 |
| Keyhole/IP Protection³ | | | | |
| Universal plug ⁴ | ✓ | ✓ | 84625 | negligible |
| Urbanfil®/Pavermate®: round grey plastic caps | ✓ | ✓ | 84329 | negligible |
| Urbanfil®/Pavermate®: round gold plastic caps | ✓ | ✓ | 84334 | negligible |
| Rhinocast®: rectangular long red plastic caps | ✓ | ✓ | 84622 | negligible |
| Rhinocast®: rectangular short red plastic caps | ✓ | ✓ | 84620 | negligible |
| Rhinocast®: round red plastic caps | ✓ | ✓ | 84626 | negligible |

Notes:

- Bracket packets are standard for all PowerLok® lids. Items listed are for replacement purposes only.
- Sintered diamond holesaws are not recommended for plastic pits. ACO recommends using any widely available bi-metal holesaw. If in doubt contact ACO.
- Caps are supplied as standard for all Urbanfil®, Pavermate® & Rhinocast® covers. Items listed are for replacement purposes only.
- Suitable for all non-locking lids.



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



Range of lid & access cover lifters.



Range of sintered diamond holesaws for polymer concrete pits.



NATA certified pit lifter for Type 8 & 99 polymer concrete pits.