

## Product Selector and Classifications








There is no Australian standard relating to electrical pit performance. Pits are selected by use which is determined by size, volume and location.

To give specifiers, installers and users help selecting the right cover, the table below is based on loadings outlined in AS3996 (road gully and inspection chamber covers) and AS4198 (precast concrete access chambers for sewerage applications) standards.

Users should note that cover loadings are transmitted to pit structures.

ACO strongly recommends that HDPE plastic pits are not used in areas subject to heavy vehicular traffic.

### AS3996 road gully and inspection chamber covers

<b>A<sub>10kN</sub></b>	<b>B<sub>80kN</sub></b>	<b>C<sub>150kN</sub></b>	<b>D<sub>210kN</sub></b>	<b>E<sub>400kN</sub></b>	<b>F<sub>600kN</sub></b>	<b>G<sub>900kN</sub></b>
						
Pedestrian applications, inaccessible to motor vehicles	Footpath and paved areas where vehicles mount accidentally or for light vehicles such as tractors and livestock	Light vehicular traffic. Minor roads such as cul-de-sacs and parking areas	Roads carrying fast moving, heavy vehicles	Very heavy wheel loads as found on construction sites, mining and industrial areas	Extra heavy wheel loads as encountered on container terminals, docks and mining areas	Extra heavy wheel loads - airports, military traffic etc.
<b>Plastic Pit</b> Dependent on cover				<div style="background-color: #f4a460; padding: 10px; text-align: center;"> <p><b>Electrical pits &amp; covers should not be installed in fast moving main road applications</b></p> <p><b>For advice on electrical pits &amp; covers in areas subject to these loads please contact ACO</b></p> </div>		
<b>Polymer Concrete Pit</b> Dependent on cover						
<b>Cover Loadings:</b>						
Cement concrete						
Polymer concrete						
Fabricated chequer plate steel covers						
ACO ACCESS fabricated steel recessed covers ②						
Military style locked fabricated chequer plate steel covers						
Special made to order, fabricated steel covers Contact ACO Office for details						
<b>Cable Ducting</b> Dependent on system and cover details						

### AS4198 pre-cast concrete access chambers

<b>L</b>	<b>M</b>	<b>H</b>
Light duty access covers for use on footways where it is possible for light vehicles, tractors or livestock to mount the footway	Medium duty access covers pedestrian use and occasionally open to vehicles where loads will not exceed 3.7 tonnes	Heavy duty access covers in carriageways where loads will not exceed 7.0 tonnes
ACO ACCESS fabricated steel recessed covers ②		
Fabricated chequer plate steel covers		
Military style locked chequer plate steel covers		
Special made to order, fabricated steel covers		

Note:

- ① Pits should only be used in these areas if the pit is completely covered by a suitable cover and frame.
- ② In block paver areas, pavers can decrease the recessed access cover strength.