

# CLASS RATINGS & CLASSIFICATIONS

In Australia there is currently no standard relating to pit performance. All pits are selected for their use which dictates their size and location.

gully and inspection chamber covers) and AS14198 (precast access chambers for sewerage applications) should be used to guide specifiers and installers on how to choose the correct cover for their application. Specifiers should contact GVK when specifying pits in areas subject to heavy traffic loading.

The table below is based on loadings outlined in AS3996 (road

Standard	Usage	Plastic pit	Polymer concrete pit	Cover loadings						EN 124 equivalent
				Cement concrete	Polymer concrete	Fabricated steel chequer plate cover	GVK Fabricated steel recessed cover	Military application locked fabricated covers - chequer plate	Made to order - steel fabricated covers - contact GVK for more details.	
<b>A10kN</b>	Areas (including footways) accessible only to pedestrians and cyclists, closed to other traffic (extra-light duty).	Dependent on choice of cover <b>Contact GVK for further information when specifying these</b>	Dependent on choice of cover							<b>Class A 15kN</b>
<b>B80kN</b>	Areas (including footways and light tractor paths) accessible to vehicles (excluding commercial vehicles) or livestock (light duty).									<b>Class B 125kN</b>
<b>C150kN</b>	Malls and areas open to slow moving commercial vehicles (medium duty).									<b>Class C 250kN</b>
<b>D210kN</b>	Carriageways of roads and areas open to commercial vehicles (heavy duty).									<b>Class D 400kN</b>
<b>E400kN</b>	General docks and aircraft pavements (extra heavy duty - E).									<b>Class E 600kN</b>
<b>F600kN</b>	Docks and aircraft pavements subject to high wheel loads (extra heavy duty - F).									<b>Class F 900kN</b>
<b>G900kN</b>	Docks and aircraft pavements subject to very high wheel loads (extra heavy duty - F).									

**Contact GVK for further information when specifying these products.**  
E-mail: [sales@gvk.com.au](mailto:sales@gvk.com.au)

Standard	Usage	Cover loadings				EN 124 equivalent
<b>L</b>	Light duty access covers for use on footways where it is possible for light vehicles and animals to mount the footway, e.g. tractors & livestock.	GVK Access recessed covers - fabricated steel	Chequer plate covers - fabricated steel	Locked chequer plate steel covers - military type	Special made to order covers - fabricated steel	<b>Class A 15kN</b>
						<b>Class B 125kN</b>
<b>M</b>	Medium duty access covers for pedestrian use and occasionally open to vehicles not exceeding 3.7 tonnes loaded					<b>Class C 250kN</b>
<b>H</b>	Heavy duty access covers in carriageways open to vehicles with loads not exceeding 7.0 tonnes					

## Installation guide Class Rated Lids

### Step 1 - Preparation

Ensure the class of product suits the traffic application. Prepare internal boxing so it is internal to the frame. Clear opening of the pit must not be larger than the frame opening.

### Step 2 - Position cover in frame

- Covers and frames are unique and must not be interchanged.
- Clean all cover and frame matching surfaces to ensure they are free of dirt.
  - Cover and frame edges must be level.
  - Ensure frame is flat and level with the finished surface level required.
  - Ensure frame is in square around the cover and that the cover does not rock.

### Step 3 - Pour Concrete

Concrete must FULLY support the frame all the way to the inside edge of the frame.

- Concrete must be of at least 32mpa.
- Ensure all concrete is free of voids.
- Ensure that concrete is vibrated, particularly under the frame and that concrete both under the frame and inside the frame structure reaches the same Mpa as the base concrete.
- Screened off excess concrete to a neat finish.
- Allow to cure before attempting to remove cover as early movement may distort the frame.

### Step 4 - Strip & Seal

- After curing period, remove cover.
- Ensure concrete fully supports the frame and is free from all voids.
- Clean and apply heavy grease to all mating surfaces before returning