GENERAL

The installation of cast iron access covers and mild streel grates and frames are relative to the specific use of the product.

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| **Light Duty Applications****– Class B***Private and shared residential property. Suitable for vehicles accessing driveways and footways. Low speed only.**Purpose – residential driveways. Unit sites. Parklands. Residential car parks.*Nominal wheel loading[[1]](#footnote-1) 2670kg | **Medium Duty Applications** **– Class C***Residential roads and car parks trafficable to vehicles.**Purpose – areas with slow moving traffic and minor roads.* Nominal wheel loading[[2]](#footnote-2) 5000kg | **Heavy Duty Applications** **– Class D***Major roads including freeway and motorway shoulders. Warehouses and loading docks.* *Purpose – major roads.* Nominal wheel loading[[3]](#footnote-3) 8000kg |

STEP

1. Preparation

Ensure the Class of product suits the traffic application.

1. Position Cover in Frame
* Clean all cover and frame matching surfaces to ensure they are free of excess dirt.
* Cover and frame edges must be level.
* Installation bolts must be identified and removed just prior to infilling the covers.
* Ensure the frame is flat and level with the finished surface level required.
* Ensure the frame is square around the cover and that the cover does not rock.
* Fit plastic plugs into keyholes.
1. Pour Concrete
	* Concrete must be of at least 32Mpa.
	* Ensure all concrete is free of voids.
	* Ensure that concrete is vibrated, particularly under the frame, and the concrete both under the frame and inside the cellular frame structure reaches the same Mpa as the base concrete.
	* Screed of excess concrete to a neat finish (cover ribs and edges should be visible).
	* Allow to cure before attempting to remove cover as early movement may distort the frame and affect the seal.
2. Strip & Seal
	* After curing period, remove cover.
	* Strip out formwork.
	* Ensure concrete FULLY supports the frame and is free from all voids.
	* Clean and apply heavy grease to all mating surfaces before returning cover to its original position.
1. *AS3996:2019 Access covers and grates, Table 3.1*. [↑](#footnote-ref-1)
2. *AS3996:2019 Access covers and grates, Table 3.1*. [↑](#footnote-ref-2)
3. *AS3996:2019 Access covers and grates, Table 3.1*. [↑](#footnote-ref-3)