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)