



## Floor Grate - Loadings

Australian standard AS 3996-2006 covers access covers and grates for use in vehicular and pedestrian areas. It applies to covers and grates having clear openings less than 1300mm wide. The clear opening of a trough is the dimension of unobstructed opening for access in service, without removable supporting beams in place. The clear opening of the trough is approximately 40 mm less than the grate width.

The calculations are based on the standard mesh grate with support bars at 25mm centres.

Class	Definition as detailed in AS 3996	Service load kN	Grate Type (support size & spacing)	Maximum grate width
Class A	Extra Light Duty Areas (including footways) accessible only to pedestrians and pedal cyclists and closed to other traffic	6.7	Type 1 (12mm @ 25mm) Type 2 (12mm @ 25mm) Type 3 (25mm @ 25mm) Type 4 (25mm @ 25mm)	350mm 350mm 500mm 500mm
Class B	Light Duty Areas (including footways and light tractor paths) accessible to livestock or vehicles (excluding commercial vehicles)	53	Type 1 (12mm @ 25mm) Type 2 (12mm @ 25mm) Type 3 (25mm @ 25mm) Type 4 (25mm @ 25mm)	150mm 150mm 400mm 400mm
Class C	Medium Duty Malls and areas open to slow moving commercial vehicles	100	Type 3 (25mm @ 25mm) Type 4 (25mm @ 25mm)	350mm 350mm
Class D	Heavy Duty Carriageways of roads and areas open to commercial vehicles	140	Type 3 (25mm @ 25mm) Type 4 (25mm @ 25mm)	350mm 350mm
Classes E - G	Docks and Aircraft pavements Refer AS 3996	>140	N/A	N/A

Please check the Product Data Sheet for the standard sizes available for each grate type.

Due to continuous product research and development, the information contained herein is subject to change without notification.