








Load classifications of covers and grates

AS3996:2006 – Access covers, road grates and frames

	Class rating	Typical use	Nominal wheel load (kg)	Serviceability design load (kN)	Ultimate limit state design load	Terra Firma product
			AS3996	AS3996	AS3996	
	A	Footways and area accessible only to pedestrians and cyclists	330	6.7	10	Terra Firma B80
	B	Footways that may be mounted by a vehicle or livestock, and light tracker paths	2670	53	80	Terra Firma B80
	C	Malls and pedestrian areas open to slow moving commercial vehicles	5000	100	150	Terra Firma C150
	D	Carriageways of roads and areas open to commercial vehicles	8000	140	210	Terra Firma D400
	E	General docks and aircraft pavements	13700	267	400	Terra Firma D400
	F	Docks and aircraft pavements subjects to high wheel loads	20000	400	600	
	G	Docks and aircraft pavements subject to very high wheel loads	30000	600	900	

Notes:

- Nominal wheel loads are given for guidance only. Consideration should be given to the type, size and pneumatic pressure of the load applied.
- Class B design loads exceed AS 5100.2 requirements for footway loading.
- Class C units are based on intermediate load.
- Class D design loads exceed AS 5100.2 requirements for a W80 wheel load.
- The serviceability load is set at 2/3 of the ultimate limit state design load.
- A force of 1 kN approximately equal to the weight of 100kg.