










## LOAD CLASSIFICATION

Access covers and grates shall be designated by classes A,B,C,D,E,F and G according to load capacity as set out in the table below. The design loads as specified below, shall be used for testing.

The appropriate class for a cover or grate depends upon the place of installation. Some place of installation, relative to class, are outlined below. The selection of the appropriate class is the responsibility of the designer and where there is doubt the stronger class shall be selected.

### LOAD CLASSIFICATIONS OF COVERS AND GRATES

AS3996:2006 – ACCESS COVERS, ROAD GRATES & FRAMES

							
RATING	CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	CLASS F	CLASS G
TYPICAL USE	Areas (including footways) accessible only to pedestrians & pedal cyclists & closed to other traffic (extra light duty)	Areas (including footways & light tractor paths) accessible to vehicles (excluding commercial vehicles) or livestock (light duty)	Malls and areas open to slow moving commercial vehicles (medium duty)	Carriageways of roads & areas open to commercial vehicles (heavy duty)	General docks & aircraft pavements (extra heavy duty - E)	Docks & aircraft pavements subject to high wheel loads (extra heavy duty - F)	Docks & aircraft pavements subject to very high wheel loads (extra heavy duty - G)
NOMINAL WHEEL LOADING Kg	330	2,670	5,000	8,000	13,700	20,000	30,000
SERVICE-ABILITY DESIGN LOAD kN	6.7	53	100	140	267	400	600
ULTIMATE LIMIT STATE DESIGN LOAD kN	10	80	150	210	400	600	900

#### NOTES:

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

