

## ACCESS COVERS & GRATES

Access covers and grates are 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, may be used as a guide it is critical that you consult a qualified engineer or designer to ensure the correct class is chosen. The appropriate class for a cover or grate depends upon the place of installation. Some places 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
<b>Typical Use</b>	Areas (including footways) accessible only to pedestrians and pedal cyclists, and closed to other traffic (extra light duty)	Areas (including footways and 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 and areas open to commercial vehicles (heavy duty)	General docks and aircraft pavements (extra heavy duty - E)	Docks and aircraft pavements subject to high wheel loads (extra heavy duty - F)	Docks and aircraft pavements subject to very high wheel loads (extra heavy duty - G)
<b>Nominal Wheel Loading (kg)</b>	330	2,670	5,000	8,000	13,700	20,000	30,000
<b>Serviceability Design Load (kN)</b>	6.7	53	100	140	267	400	600
<b>Ultimate Limit State Design Load (kN)</b>	10	80	150	210	400	600	900



**CLASS A POLY COVER**



**CLASS B COMPOSITE COVER**



**CLASS B GRATE & FRAME**



**CLASS D COVER**

CODE	DESCRIPTION	CLASS	MATERIAL	TYPE	NOMINAL SIZE
13151	Class A Poly Cover	A	Poly	Cover	600 x 600mm
17036	Class B Composite Cover & Frame	B	Composite	Cover	600 x 600mm
26861	Class D Cast Iron Access Cover & Frame	D	Cast Iron	Cover	600 x 600mm
25376	Class B Composite Cover & Frame	B	Composite	Cover	600 x 900mm
26878	Class D Cast Iron Access Cover & Frame	D	Cast Iron	Cover	600 x 900mm
25352	Class A Galvanised Grate & Frame	A	Galvanised	Grate	600 x 600mm
25369	Class B Galvanised Grate & Frame	B	Galvanised	Grate	600 x 600mm
25604	Class B Galvanised Grate & Frame	B	Galvanised	Grate	600 x 900mm
25383	Class D Galvanised Grate & Frame	D	Galvanised	Grate	600 x 900mm

### 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.

**Other options available on request including:**

Concrete mill covers, multipart covers, paver infill covers, tile infill covers, stainless steel or brass edged covers, round covers, gas light covers, bolt down covers