

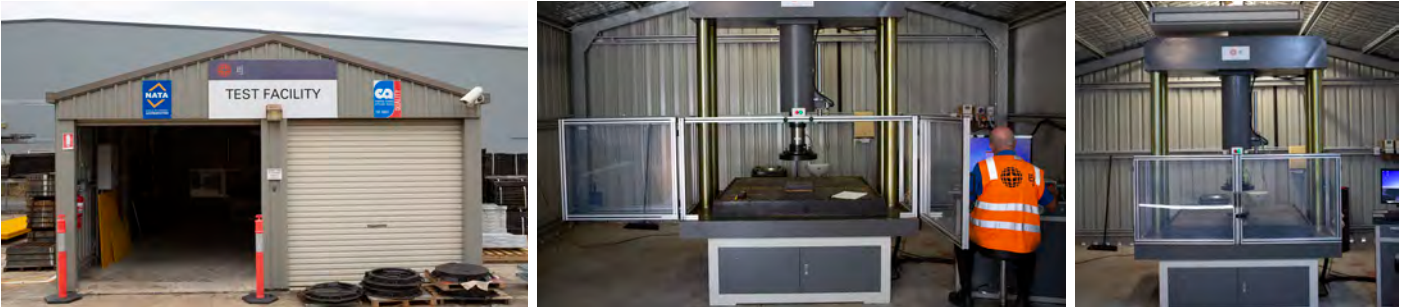


ERMATIC® Covers
Fully tested to the updated
Australian Standard



EJ Covers & Grates AS3996:2019 Testing Changes

Complementary but important tests have been added to the existing AS3996:2019 standard Geometric Centre tests required for compliance, as illustrated below. These updated additional “Weakest Points” tests (gazetted as Appendix C, Section 3.1) ensure that products perform as they should, providing low maintenance longevity.



EJ Testing Unit Now at NATA Approved Facility

EJ has already invested and upgraded many popular product lines to meet these strengthened, Australian Standards, that exceed global standards such as the European EN124:2015. You can trust EJ.

The Familiar AS3996 Testing Procedure

	Single Part Cover, Geometric Centre Load	Trench Run, Geometric Centre Load
Example		

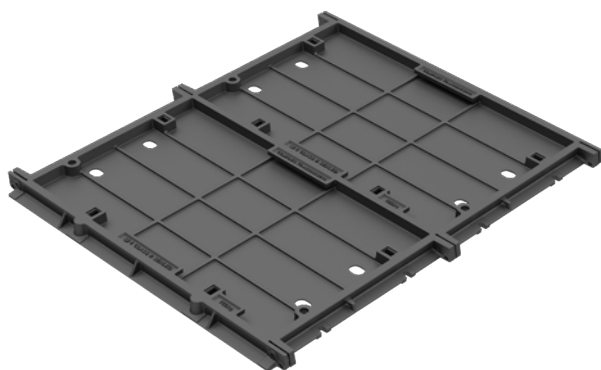
The Updated Additional AS3996:2019 Testing Procedures

Criteria	IF cover/grate has CO greater than 400mm (any direction) AND non-uniform load bars or thickness in load bearing structure	IF cover/grate has more than one part (e.g. trench runs) AND non-uniform load bars or thickness in load bearing structure
Additional Type Test	Test Block placed at “Weakest Point”	Test Block placed at each joint between covers at the “Weakest Point”
Example		

Ermatic® Class B 1/2/3 Part Covers

Recessed for Concrete Infill

Compliant for any type of infill material, suitable for shallow pavers.



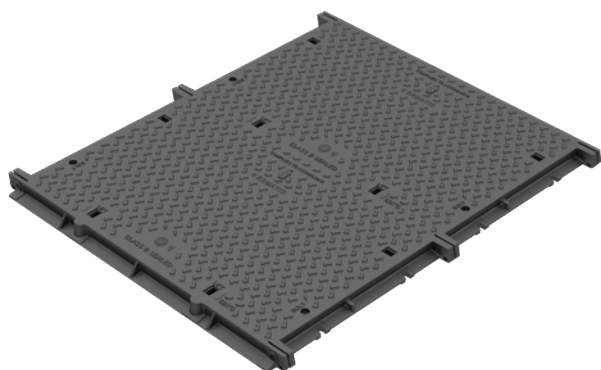
Clear Opening Size width x length (mm)	Overall Frame width x length x height (mm)	Number of Covers	Product Code
600x600	800x710x55	■	ER0606B
900x600	1100x710x55	■	ER0906B
900x900	1100x1010x55	■	ER0909B
600x1220	800x1330x55	■ ■	ER0612B
900x1220	1100x1330x55	■ ■	ER0912B
900x1520	1100x1630x55	■ ■	ER0915B
900x1820	1100x1930x55	■ ■	ER0918B
600x1840	800x1950x55	■ ■ ■	ER0618B
900x2140	1100x2250x55	■ ■ ■	ER0921B
900x2440	1100x2550x55	■ ■ ■	ER0924B
900x2740	1100x2850x55	■ ■ ■	ER0927B

Included Accessories: Keyhole Covers, Stainless Steel Lock-Down Bolts and Bolt Hole Covers.

Optional Accessories: Height Adjusting Bolts, Lifting Key Levers and High Security Bolts.

Solid Top Anti-Slip Surface

Pedestrian pathways, car parks or parking stations. With a **solid top** and featuring the EJ patented 4L anti-slip surface (P5 rated to AS4586:2013).



Clear Opening Size width x length (mm)	Overall Frame width x length x height (mm)	Number of Covers	Product Code
600x600	800x710x55	■	ES0606B
900x600	1100x710x55	■	ES0906B
900x900	1100x1010x55	■	ES0909B
600x1220	800x1330x55	■ ■	ES0612B
900x1220	1100x1330x55	■ ■	ES0912B
900x1520	1100x1630x55	■ ■	ES0915B
900x1820	1100x1930x55	■ ■	ES0918B
600x1840	800x1950x55	■ ■ ■	ES0618B
900x2140	1100x2250x55	■ ■ ■	ES0921B
900x2440	1100x2550x55	■ ■ ■	ES0924B
900x2740	1100x2850x55	■ ■ ■	ES0927B

Included Accessories: Keyhole Covers, Stainless Steel Lock-Down Bolts and Bolt Hole Covers.

Optional Accessories: Height Adjusting Bolts, Lifting Key Levers and High Security Bolts.

Ermatic® Class D 1/2/3 Part Covers

Recessed for Concrete Infill

Compliant for any type of infill material, suitable for shallow pavers.



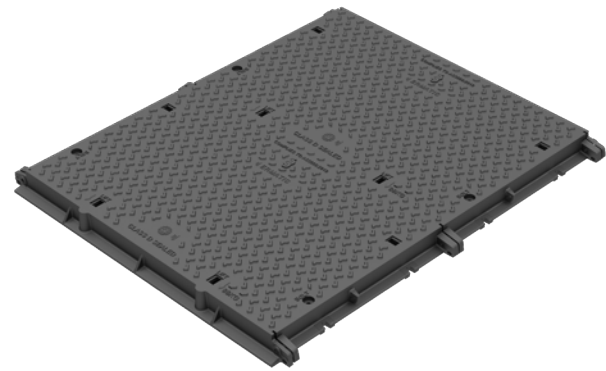
Clear Opening Size width x length (mm)	Overall Frame width x length x height (mm)	Number of Covers	Product Code
600x600	800x710x80	■	ER0606D
900x600	1100x710x80	■	ER0906D
900x900	1100x1010x80	■	ER0909D
600x1220	800x1330x80	■ ■	ER0612D
900x1220	1100x1330x80	■ ■	ER0912D
900x1520	1100x1630x80	■ ■	ER0915D
900x1820	1100x1930x80	■ ■	ER0918D
600x1840	800x1950x80	■ ■ ■	ER0618D
900x2140	1100x2250x80	■ ■ ■	ER0921D
900x2440	1100x2550x80	■ ■ ■	ER0924D
900x2740	1100x2850x80	■ ■ ■	ER0927D

Included Accessories: Keyhole Covers, Stainless Steel Lock-Down Bolts and Bolt Hole Covers.

Optional Accessories: Height Adjusting Bolts, Lifting Key Levers and High Security Bolts.

Solid Top Anti-Slip Surface

Major roadways, suburban pedestrian shared streets, hard shoulders and parking areas for all types of vehicles. With a **solid top** and featuring the EJ patented 4L anti-slip surface (P5 rated to AS4586:2013).



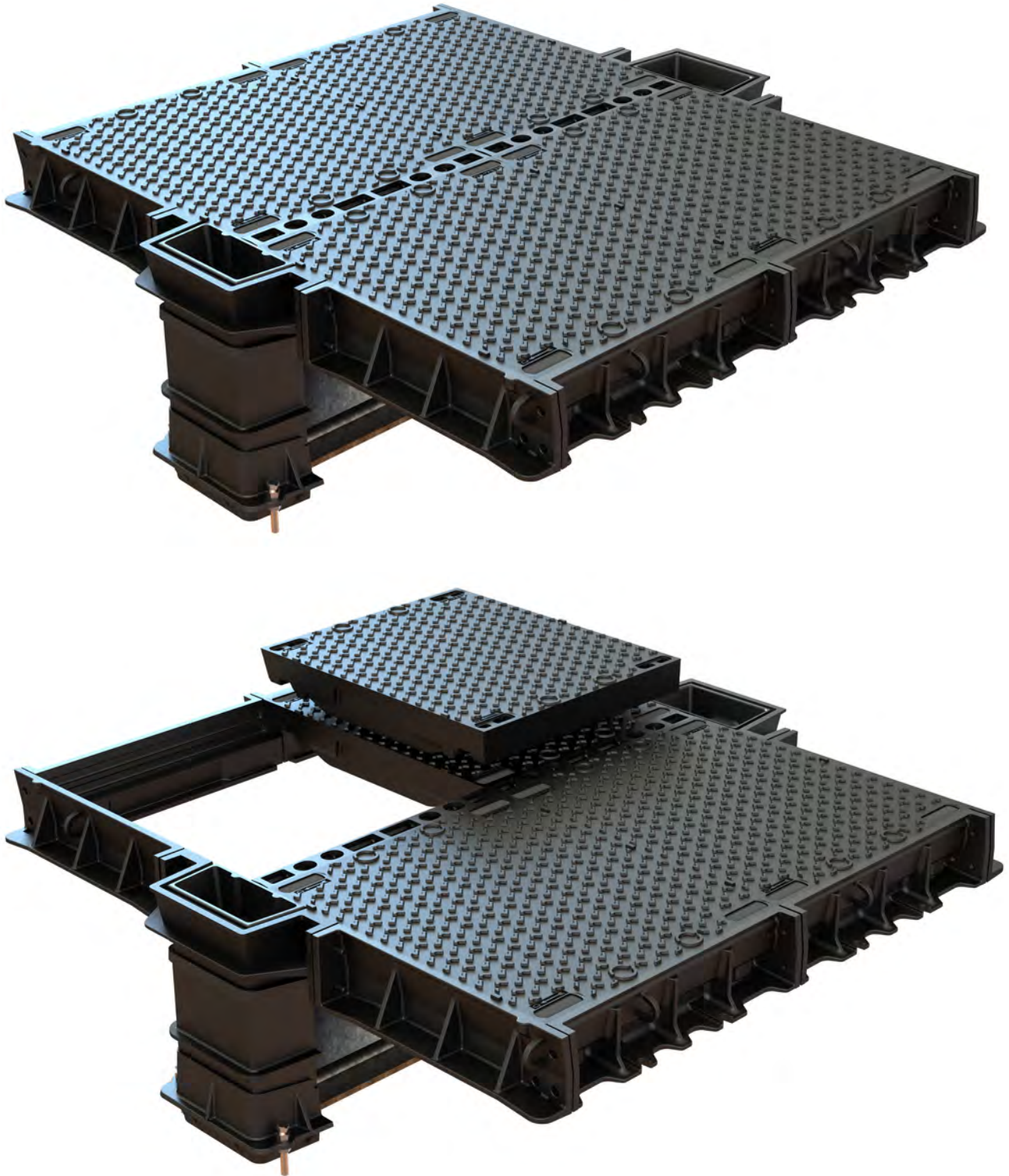
Clear Opening Size width x length (mm)	Overall Frame width x length x height (mm)	Number of Covers	Product Code
600x600	800x710x80	■	ES0606D
900x600	1100x710x80	■	ES0906D
900x900	1100x1010x80	■	ES0909D
600x1220	800x1330x80	■ ■	ES0612D
900x1220	1100x1330x80	■ ■	ES0912D
900x1520	1100x1630x80	■ ■	ES0915D
900x1820	1100x1930x80	■ ■	ES0918D
600x1840	800x1950x80	■ ■ ■	ES0618D
900x2140	1100x2250x80	■ ■ ■	ES0921D
900x2440	1100x2550x80	■ ■ ■	ES0924D
900x2740	1100x2850x80	■ ■ ■	ES0927D

Included Accessories: Keyhole Covers, Stainless Steel Lock-Down Bolts and Bolt Hole Covers.

Optional Accessories: Height Adjusting Bolts, Lifting Key Levers and High Security Bolts.

Multiparts and Long-run Trench Covers

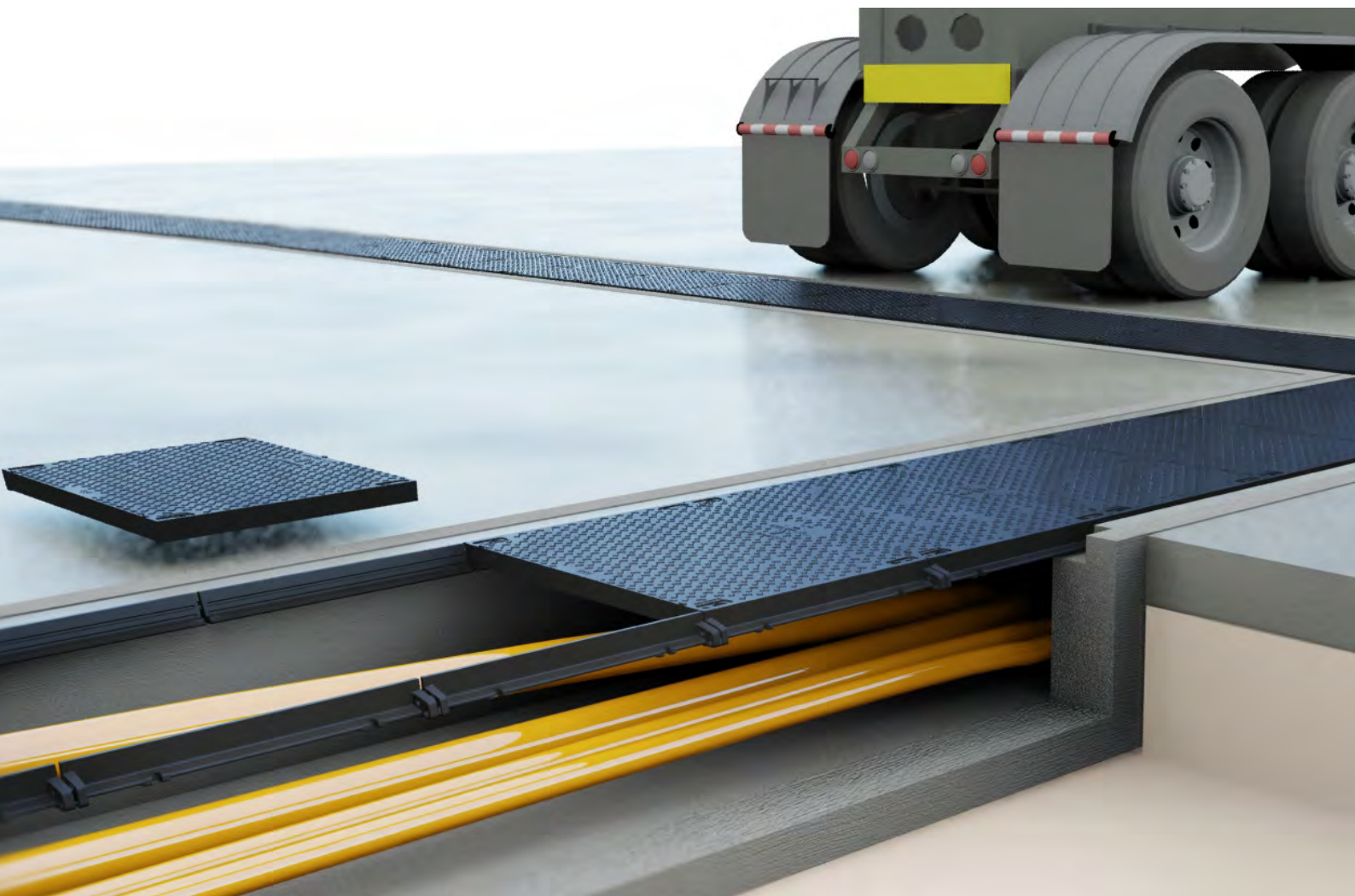
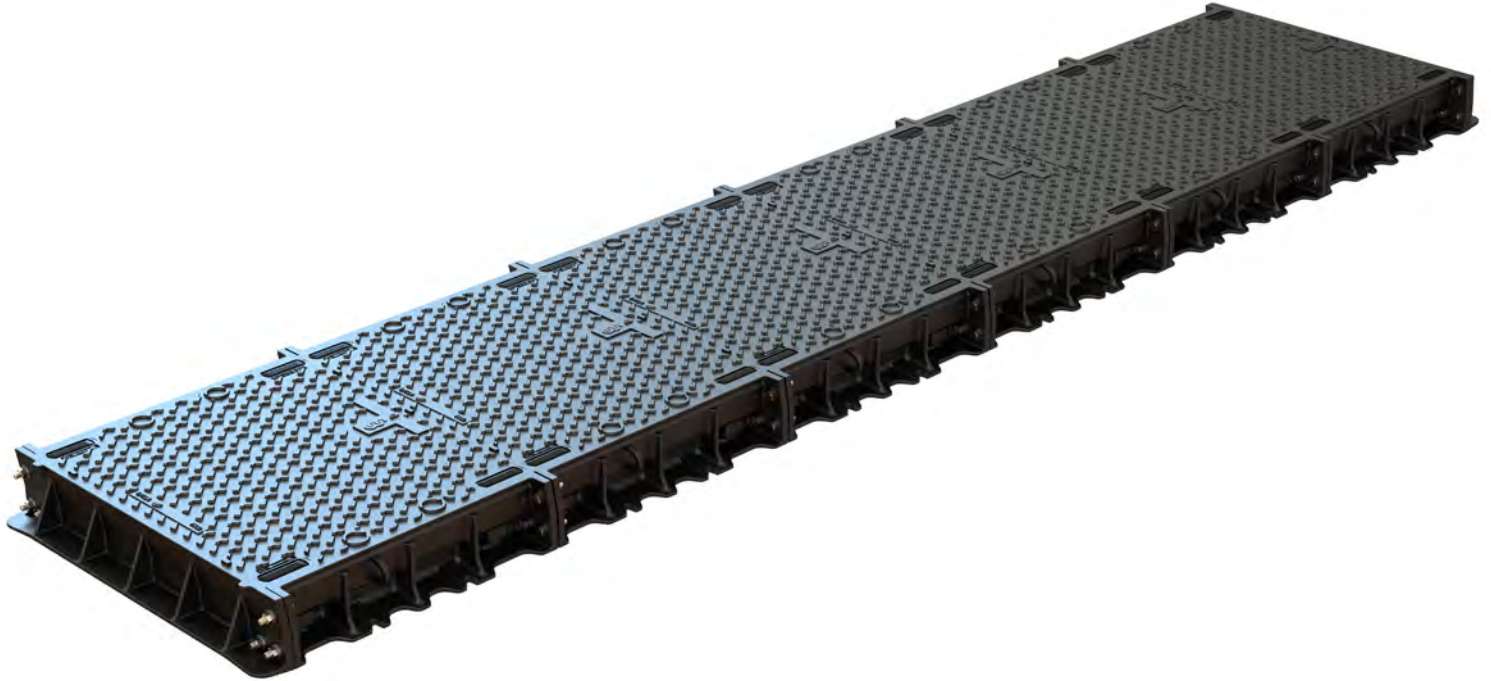
EJ is who you contact first when you need custom-made covers. Our team has decades of experience out on sites, getting to understand exactly what projects require. And knowing that our covers are AS3996:2019 rated and have been tested in our own NATA rated testing lab, gives you confidence that you're installing covers of uncompromising quality. Check with us about your specific Clear Opening and Load Class and we'll custom-make it for you.



Multiparts - Made to Order

Trench Covers Where We Go to Any Lengths and Loads For Your Project

Specify just what you need and we'll build it for you. Infill and solid applications, footpaths to airport tarmacs, we'll custom make and deliver, fully AS3996:2019 tested at our own NATA rated test unit. Check with us about your specific Clear Opening and Load Class and we'll custom make it for you.



LOAD CLASSIFCATION OF COVERS AND GRATES

AS3996: 2019



Class	Typical Issue	Nominal Wheel Loading kg	Serviceability Design Load kN	Ultimate Limit State Design kN
A	Areas accessible strictly by pedestrains. Not suited to vehicles. Purpose - residential backyards. Walkways not accessible by vehicles.	330	6.7	10
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.	2,670	53	80
C	Residential roads and car parks trafficable to vehicles. Purpose - areas with slow moving traffic and minor roads.	5,000	100	150
D	Major roads including freeway and motorway shoulders. Warehouses and loading docks. Purpose - major roads.	8,000	160	240
E	Freeway and motorway carriageways. Suitable for all heavy vehicles. Purpose - freeways and motorways.	13,700	267	400
F	Docks, wharfs and airport service and taxiways. Purpose - heavy and high traffic volumes.	20,000	400	600
G	Docks, wharfs and airport runways. Purpose - heavy and high traffic volumes.	30,000	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 load exceed AS 5100.2 requirments for footway loads. 3. Class D design loads exceed AS 5100.2 requirements for a W80 wheel load. 4. Class C units are based on an intermediate load. 5. The ulitmate limit state load is 3 times the nominal wheel load and 1.5 times the serviceability load.



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