

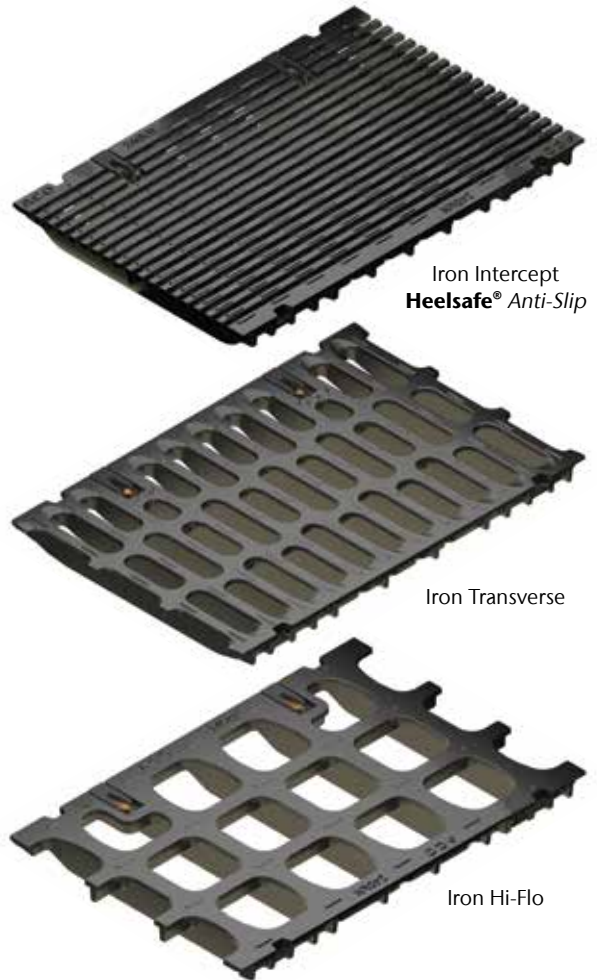
TraffikDrain Grates

Class D - PowerLok™ Grates

Typical Applications

- Motorways and highways
- Streetscapes with shared zones for pedestrians and vehicles
- Busways, bus stops and railway interchanges
- Bridge abutments and tunnel portals
- Median strips
- Right hand turn bays
- Kerbside gutters

All TraffikDrain grates are purpose designed to meet Australian civil engineering requirements. They have been tested and certified to AS 3996 for load class D 240kN and bicycle wheel compliance in all directions. Grates are equipped with anti-shunt provisions to prevent longitudinal movements from the dynamic action of wheel loads. NATA endorsed test reports to AS 3996 are available on request. As a standard, all grates are secured with the PowerLok™ barless and boltless locking system for quick grate removal and replacement to allow unobstructed access for maintenance. As an alternative, a 2-bolt locking is also available.



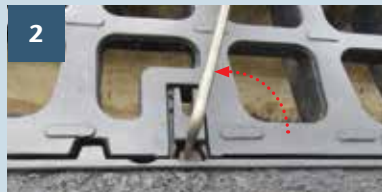
Auxiliary safety clip to enhance security
 Safety clip (part no. 10443) sits flush with grate surface and grate cannot be unlocked. The red coloured safety clips provide a visual indication that the grates are locked.



PowerLok™ Barless & Boltless Locking System - Standard



1 To open PowerLok™, insert tool between rail and PowerLok™ device.



2 Rotate tool 90°; PowerLok™ device should push away from rail.



3 To close, place hook part of tool into 'V' and push towards rail.



◀ Grate removal tool (part no. 01318) used for locking and unlocking PowerLok™ device.

Load Class D 240kN - AS 3996

Major roads, freeway shoulders and loading docks

Approximate Nominal Wheel Load 8,000kg



D 240

Class D - PowerLok™ Grates

Grate	Type	Length mm	Part No.	Weight kg					
Iron Intercept ² Heelsafe [®] Anti-Slip	TD200 ¹	500	142125	8.7	✓	✓	✓	✓	P5
	TD300 ¹	500	142126	14.8	✓	✓	✓	✓	P5
Iron Transverse	TD200 ¹	500	142145	6.8	✗	✗	✓	✗	
	TD300 ¹	500	142146	12.4	✗	✗	✓	✗	
Iron Hi-Flo	TD200 ¹	500	142127	6.1	✗	✗	✓	✗	
	TD300 ¹	500	142128	10.5	✗	✗	✓	✗	

¹ TD200 Grates to suit 200mm channels - TD300 Grates to suit 300mm channels ² Meets ASME A112.6.3 Section 7.12 (American high heel standard).



Wheelchair and walking cane compliant to AS 1428.1 Clause 4.4(c) and AS 1428.2, Clause 9(c). Slots cannot exceed 13mm (width), 150mm (length).



Grates designed to resist the penetration of a 10mm heel.



Bicycle tyre penetration resistant to AS 3996. Criteria on slot length dependant on slot width.



Pedestrian safe grates with slip resistance, rated to AS 4586.

2-Bolt Grate Locking - Optional



Remove two plastic plugs with flathead screwdriver.



Position grate onto channel, align slots in grate with bolt holes in edge rail. Lock the PowerLok™.



Use wrench or socket set to tighten. If using a torque wrench, do not set to more than 20Nm.



◀ M10x40 Bolt (part no. 2324), 2 bolts per grate, supplied separately.

Class G - Bolted Grates

Typical Applications

- Airport pavements
- Sea ports and wharves
- Container yards
- Rail container terminals
- Heavy industrial parks
- Distribution centres



4-Bolt
Iron Slotted
TD200



4-Bolt
Iron Slotted
TD300

The 4-Bolt Iron Slotted grates are purpose designed for heavy duty apron areas. They have been tested and certified to AS 3996 for load class G 900kN. Grates are designed for high water intake and are equipped with anti-shunt provisions to prevent longitudinal movements from the dynamic action of wheel loads.

Optional channel anchors fabricated from mild steel are available to ensure effective mechanical keying into concrete slabs where shrinkage cannot be controlled.

NATA endorsed test reports to AS 3996 are available on request.



4-Bolt Grate Locking - Standard



Position grate onto channel, align slots in grate with bolt holes in edge rail.



Use wrench or socket set to tighten. If using a torque wrench, do not set to more than 20Nm.



To remove grates, use wrench or socket set. Carefully store bolts for refitting of grates.



◀ Four M10x40 Bolt (part no. 2324), included with grate.

Class G - Bolted Grates

Load Class G 900kN - AS 3996

Docks and aircraft pavements
subjected to very high wheel loads

Approximate Nominal Wheel Load 30,000kg



G 900

Grate	Type	Length mm	Part No.	Weight kg					
4-Bolt Iron Slotted	TD200 ¹	500	143343	14.8	x	x	✓	x	
	TD300 ¹	500	143344	24.2	x	x	✓	x	

¹TD200 Grates to suit 200mm channels - TD300 Grates to suit 300mm channels



Channel Anchor - Optional

For extra heavy duty pavements, ACO strongly recommends use of an SK Rail Anchor Kit (part no. 97496) to help tie the channels to the surrounding concrete. 2 kits required per 1m channel. The anchors provide mechanical keying into concrete slabs where shrinkage cannot be controlled.

