








This grate is part of ACO's Heelsafe® Anti-Slip range. For more information visit [www.heelsafe.com.au](http://www.heelsafe.com.au)

**Product Features**

-  Certified to AS 3996 Load Class D (210kN) (NATA endorsed load test reports available)
-  AS 3996 (Clause 3.3.5) compliant for surface openings in pedestrian areas  
ASME A112.6.3 (Section 7.12) compliant - American high heel standard
-  AS 4586: P2 – Slip resistance classification for Wet Pendulum Test  
AS 4586: R10/R9<sup>1</sup> - Slip resistance classification for Oil-Wet Inclining Platform Test
-  AS 1428.2 (Clause 9c) compliant for wheelchair and walking cane safety
-  AS 3996 (Clause 3.3.6) compliant for bicycle tyre penetration resistance
- **QuickLok** boltless locking system
- Suitable for use with K100, KS100, H100K, H100KS channels
- Manufactured from ductile iron to ASTM A536-84 Grade 65-45-12 which is similar to AS 1831 Grade 400-15

<sup>1</sup> Test direction (perpendicular/parallel) relative to the grate's length (NATA endorsed test reports available)



**Specifications**

The grate shall be ACO Type 478Q Iron Intercept Heelsafe® Anti-Slip grate with QuickLok boltless locking system as manufactured by ACO. This grate has an overall width of 123mm and overall length of 500mm. Slot widths measure at a maximum of 7mm.

**Materials & Design**

The grate shall be manufactured from ductile iron and have minimum properties and characteristics as follows:

- Manufactured from ductile iron to ASTM A536-84 Grade 65-45-12 which is similar to AS 1831 Grade 400-15
- Certified to AS 3996 Load Class D (210kN)<sup>2</sup>
- AS 4586: P2 – Slip resistance classification for Wet Pendulum Test<sup>2</sup>
- AS 4586: R10/R9<sup>1</sup> – Slip resistance classification for Oil-Wet Inclining Platform Test<sup>2</sup>
- Meets AS 1428.2 (Clause 9c); AS 3996 (Clause 3.3.5 & 3.3.6); ASME A112.6.3 (Section 7.12)
- Intake area of 14,780mm<sup>2</sup> per half metre of grate

<sup>1</sup> Test direction (perpendicular/parallel) relative to the grate's length

<sup>2</sup> NATA endorsed test reports available

For the specification of the ACO Drain channel system selected, click: <http://www.acodrain.com.au/resources>

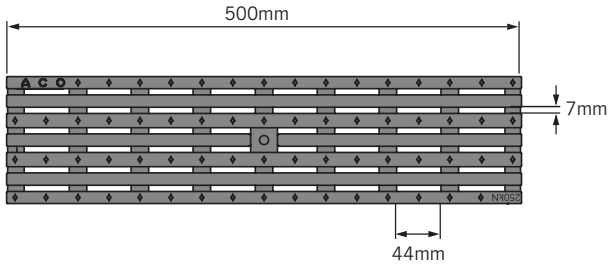
ACO Specification Information

**ACO DRAIN®**

**Type 478Q Iron Intercept Heelsafe® Anti-Slip grate**



**Plan view**

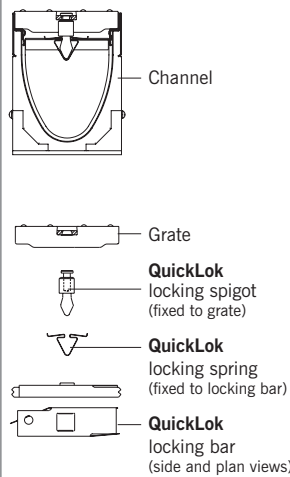


**Side elevation**



| Description                                  | Part No.     | Length (mm) | Width (mm) | Weight (kg) |
|--|--------------|-------------|------------|-------------|
| <b>QuickLok grate</b>                        |              |             |            |             |
| Type 478Q Iron Intercept Heelsafe® Anti-Slip | <b>03314</b> | 500         | 123        | 4.7         |
| <b>QuickLok locking bar</b>                  | <b>02899</b> | -           | -          | 0.1         |
| Grate removal tool                           | <b>01318</b> | -           | -          | 0.1         |

**QuickLok locking mechanism**



ACO **QuickLok** is a patented boltless locking system, grates are removed and replaced with the minimum time and effort for ease of maintenance. The unique design provides a positive 'snap down' fit into the locking bar. A spigot is fixed to the grate which 'locks' into the spring in the locking bar.

The **QuickLok** spigot is manufactured from stainless steel and high density nylon, the locking bar and spring are stainless steel, for use in both general purpose and corrosive environments.

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