

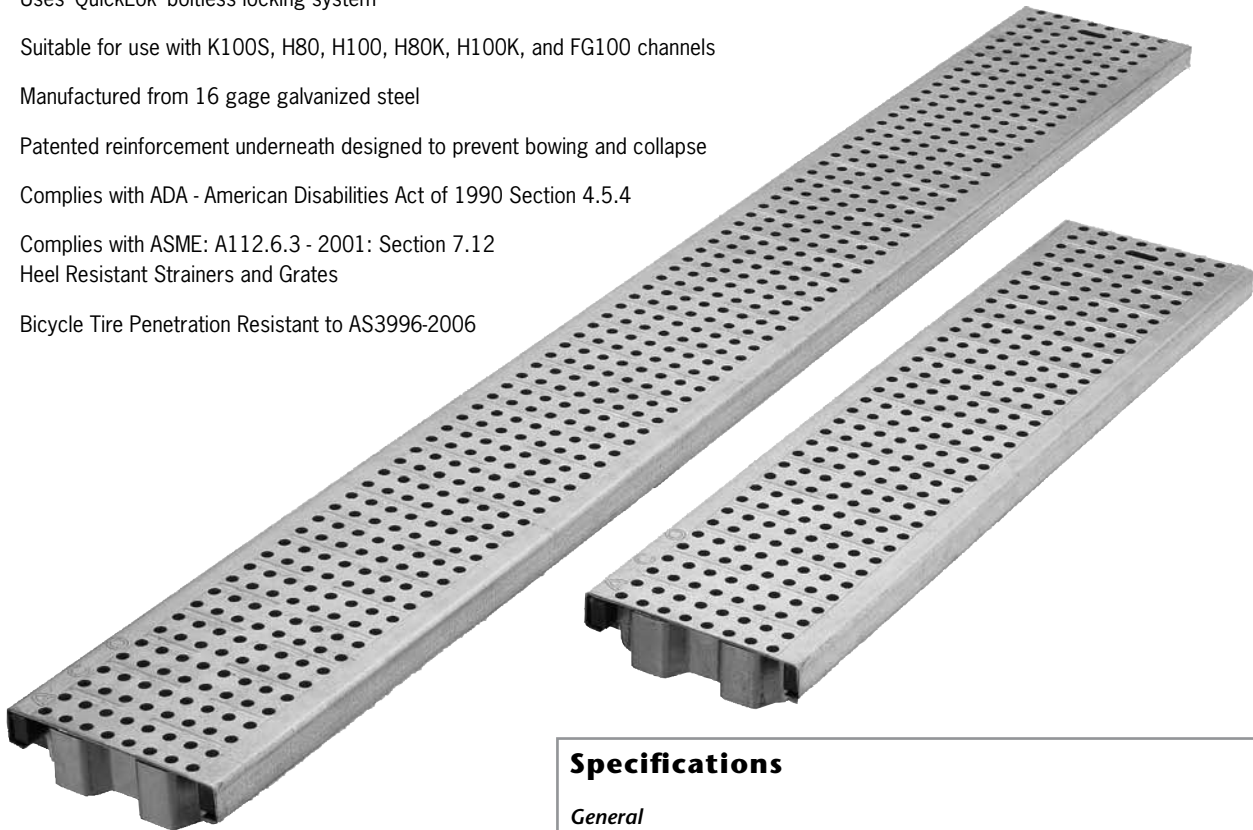
## Perforated Steel



### Type 411/413 perforated galvanized steel

#### Product Features

- Certified to DIN 19580 Load Class C - 56,000 lbs - 1,162 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K100S, H80, H100, H80K, H100K, and FG100 channels
- Manufactured from 16 gage galvanized steel
- Patented reinforcement underneath designed to prevent bowing and collapse
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A112.6.3 - 2001: Section 7.12  
Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS3996-2006



#### Specifications

##### General

The surface drainage system shall be ACO Drain K100S, C100, H80, H100, H80K, H100K, and FG100 channels\* complete with ACO Type 411/413 Perforated galvanized steel grate with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

##### Materials

The covers shall be manufactured from galvanized steel and have **minimum** properties as follows:-

- **Independently certified to meet Load Class C to DIN 19580 - 56,000 lbs - 1,162 psi**
- **16 gage galvanized steel**
- **Intake area of 14.1 sq. in. (91.0 cm<sup>2</sup>) per half meter of grate**

The overall width of 4.84" (123mm) and overall length of 39.37" (1000mm) (Type 411) and 19.69" (500mm) (Type 413). Perforations measure 0.25" (6.35mm) in diameter.

##### Installation

The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.

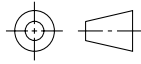
\* delete as appropriate

ACO Specification Information

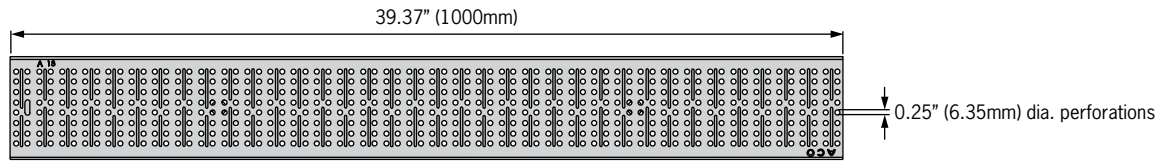


# ACO DRAIN

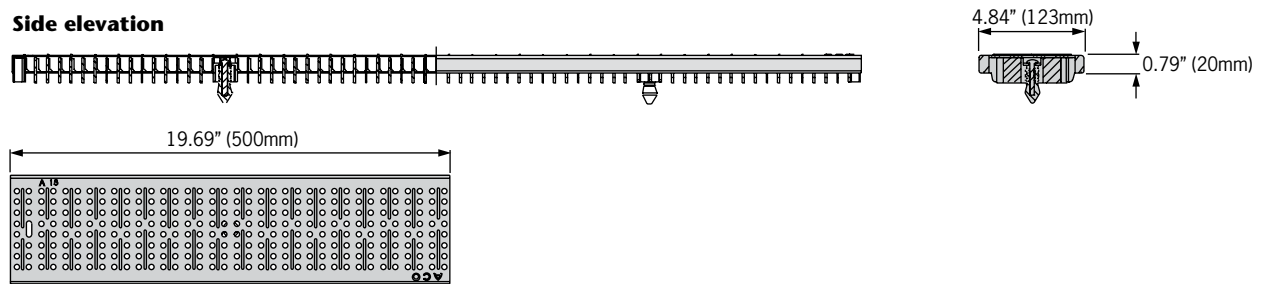
## Type 411/413 grate details



### Plan view

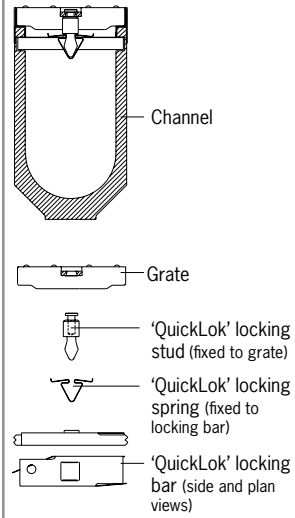


### Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
<b>QuickLok grate</b>				
Type 411 Galvanized perforated grate	<b>98905</b>	39.37 (1000)	4.84 (123)	11.3
Type 413 Galvanized perforated grate	<b>98918</b>	19.69 (500)	4.84 (123)	5.7
QuickLok locking bar	<b>02899</b>	-	-	0.2
QuickLok grate removal hook	<b>01318</b>	-	-	0.6

### '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 stud is fixed to the grate which 'locks' into the spring clip in the locking bar.

The 'QuickLok' stud is made from stainless steel and high density nylon, the locking bar and clip are stainless steel, for use in both general purpose and corrosive environments.

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