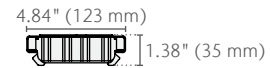
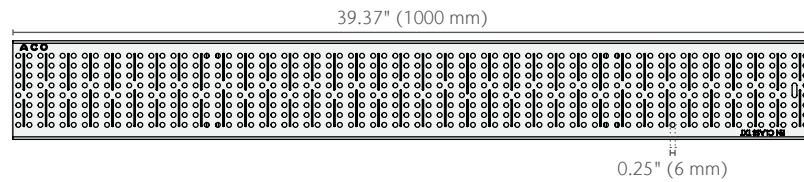


Type 411D/413D Perforated Galvanized Steel Grate (ADA) Spec Sheet



Type 411D Perforated Galvanized Steel Grate

part no. 12656



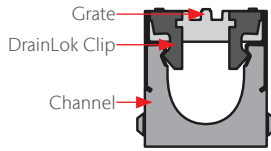
Product Name	Part No.	Length in (mm)	Width in (mm)	Weight lbs
Type 411D Perforated Galvanized Steel Grate ADA	12656	39.37 (1000)	4.84 (123)	11.3
Type 413D Perforated Galvanized Steel Grate ADA	12657	19.69 (500)	4.84 (123)	5.7

Type 411D/413D Perforated Galvanized Steel Grate (ADA) Spec Sheet



DrainLok Locking Mechanism

ACO DrainLok is a patented, boltless locking system that removes the need for bolts and bars while improving the hydraulic capacity of the channel. DrainLok Clips lock into the channel's edge rail for rapid installation. ACO DrainLok grates are fitted with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.



Specification Summary

General

The surface drainage system shall be ACO Drain K100, KS100, or H100K-8 channels, complete with ACO Type 411D/413D Perforated Galvanized Steel Grate with DrainLok locking as manufactured by ACO, Inc. or similar approved.

Installation

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

Materials

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

- 16 gauge galvanized steel
- Intake area of 14.1 in² (91.0 cm²) per half meter of grate

Type 411D has a width of 4.84" (123 mm) and length of 39.37" (1000 mm).
Type 413D has a width of 4.84" (123 mm) and length of 19.69" (500 mm).
Perforations measure 0.25" (6 mm) in diameter.



Australian Standard AS 3996 - 2006 Clause 3.3.6: max slot length dependent on slot width for grates that are deemed Bicycle Tire Penetration Resistant.



ADA-compliant per The Americans with Disabilities Act of 2010, Section 302.3



ASME: A112.6.3 : Section 7.12 Heel-resistant Strainers & Grates grate hole size ≤ 0.31" (8 mm)



ACO Heel-safe standard: grate hole size ≤ 0.25" (6.5 mm)

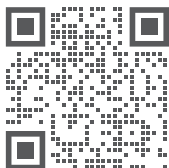


EN 1433 Load Class C
56,202 lbs – 1,160 psi

ACO, Inc.

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