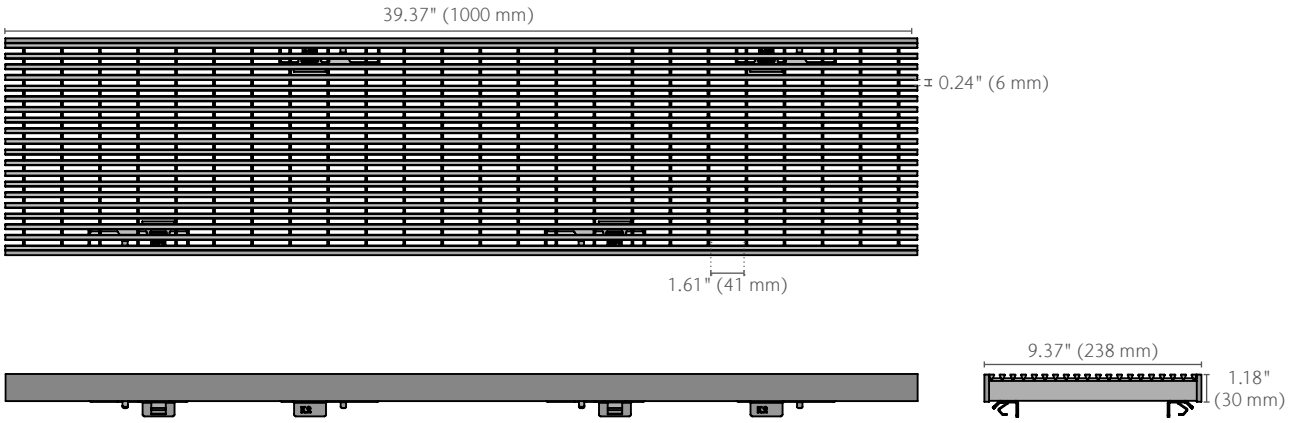
# Type 647D/648D Longitudinal Stainless Steel Grate (ADA) Spec Sheet

## Type 647D Longitudinal Stainless Steel Grate

*part no. 142219*




| Product Name | Part No. | Length in (mm) | Width in (mm) | Weight lbs |
|---|---|---|---|---|
| Type 647D Longitudinal Stainless Steel Grate (ADA) - 39.37" (1000 mm) | **142219** | 39.37 (1000) | 9.37 (238) | 18.0 |
| Type 648D Longitudinal Stainless Steel Grate (ADA) - 19.69" (500 mm) | **142220** | 19.69 (500) | 9.37 (238) | 9.0 |

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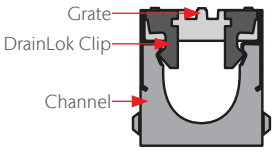
## DrainLok Locking Mechanism

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 K200, KS200, or H200K-13 channels, complete with ACO Type 647D/648D Longitudinal Stainless Steel grate (ADA) 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 stainless steel and have minimum properties as follows:

- 16 gauge, Grade 304 stainless steel
- Intake area of 89.1 in$^2$ (574.84 cm$^2$) per half meter grate

Type 647D has a width of 9.37" (238 mm) and length of 39.37" (1000 mm). Type 648D has a width of 9.37" (238 mm) and length of 19.69" (500 mm). Slots measure at a 1.61" (41 mm) by 0.24" (6 mm).

Slip-resistant:
BPN > 24 based on Pendulum Test

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

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.

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

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

EN1433 Load Class B
28,101 lbs – 580 psi

**ACO, Inc.**

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