

Traction Tread Specification

Notes to architect

1. Traction Tread is intended for general purpose use in plants and process facilities by industry, commerce, and public facilities, for both mobile and stationary equipment.
2. Traction Tread Stair Treads are intended for utility stairs and fire escapes in commercial, public and private buildings where local code permits.
3. These specifications are presented as a general guide to the architect or structural engineer in preparing project specifications. Allowable loads, spans and other limiting conditions presented in this catalog offer product data for use in design and construction.
4. All supports should provide a smooth, level, 1¹/₂" minimum bearing surface, free of burrs, bridging, welds or other irregularities.
5. Random cut ends and diagonal or circular cut exposed edges should be banded with a bar at least 1/8" thick and equal to the overall side channel depth of grating welded at contact points at the discretion of the design engineer.
6. Bolted connections, except stair or ladder tread attachment to stringer channels, may be replaced by welded connections that develop the same strength.

Part 1: General

1.1 Scope

The contractor shall furnish and install Traction Tread as specified and shown on the drawings.

1.2 Qualifications

Traction Tread Sheets, Planks, Ladder Rungs, Stair Treads and accessories, unless otherwise indicated, shall be manufactured by Cooper B-Line, and shall be installed in accordance with its current printed directions. Safety surface shall be slip-resistant in all directions.

1.3 Submittals

The contractor shall furnish shop drawings of grating layout, framing and supports, unit dimensions and sections, type and location of fasteners and welds.

1.4 Storage and Handling

All materials shall be stored and handled to avoid damage. Damaged materials shall be removed from the premises.

Part 2: Products

2.1 Flooring Materials

a. Type: Traction Tread Flooring

b. Metal and Finish: (carbon steel — hot rolled, pickled and oiled, ASTM A569) (aluminum, alloy 5052-H32)

c. Metal gauge: (14-ga. HRPO steel) (13-ga. HRPO steel) (12-ga. HRPO steel) (11-ga. HRPO steel) (16-ga. HRPO steel) (14-ga. stainless steel) (.125" aluminum)

d. Sheet Size: (36" x 120")

2.2 Plank Grating

a. Type: Traction Tread Plank

b. Metal Gauge and Type: (11 and 13 gauge carbon steel — hot rolled, pickled and oiled, ASTM A569) (11 and 13 gauge mill-galvanized steel — ASTM A924), (.125" aluminum, alloy 5052-H32)

2.3 Ladder Rungs

a. Type: Traction Tread Ladder Rungs

b. Metal Gauge and Type: (13 gauge mill-galvanized steel, ASTM A924) (13 gauge carbon steel — hot rolled, pickled and oiled, ASTM A569) (.125" aluminum, alloy 5052-H32) (14 gauge stainless steel, alloy Types 304-2B/D)

c. Width: (1¹/₄"") (1⁵/₈"") (2¹/₄"")

d. Length: (48") (60")

Part 3: Execution

3.1 Condition of surfaces

Prior to traction tread installation, contractor shall inspect supports for correct size, layout and alignment and verify that surfaces to receive grating are free of debris. The contractor shall report to the design or consulting engineer or owner's agent in writing any defects considered detrimental to proper application of traction tread so defects can be remedied before grating is applied.

3.2 Traction Tread installation

Install traction tread in accordance with manufacturer's recommendations and shop drawings. Sheet goods by their nature are intended to cover surface only. They require adequate support and hold down. Position traction tread planks flat and square with ends bearing min. 1¹/₂" on supporting structure. Keep traction tread sections at least 1/4" away from vertical steel sections and 1/2" from concrete walls. Installation clearances are built into this product. Allow clearance at joints between sections of max. 1/4" at side channels and max. 3/8" at ends. When specified, band random cut ends and diagonal or circular cut exposed edges with a min. 1/8" thick bar welded at contact points.

3.3 Stair Tread Installation

Install Traction Tread Stair Treads as shown on the drawings. Fasten treads to stair stringers with 3/8" x 1" machine bolts and nuts.