For Safe Walking-Working Surfaces

Other Cooper B-Line Product Lines

Strut Systems (Bolted Framing)
Cable Tray Systems
Electrical Enclosures
Electronic Enclosures
Pipe Hanger & Support Systems
Spring Steel Fasteners
Cable Runway & Relay Racks (CommData)
Meter Mounting & Distribution Equipment
Anchors

© 2009 Cooper B-Line, Inc. Printed in U.S.A. 7.51208
Traction Tread™ Pattern

Perf-O Grip® Pattern

Available up to 12” wide

Perf-O Grip® Grating

Perf-O Grip® 2 Grating

Traction Tread Plank

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, 1/16” minimum bearing surface, free of burns, bridging, welds or other irregularities.
5. Random cut ends and diagonal or circular cut exposed edges should be banded with a bar at least 1/16” 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)

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 A524), (.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 A620) (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: (1 1/4”) (9/16”) (2 1/4”)
d. Length: (48”) (90”)

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. 1 1/2” 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. 1/8” 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.
Part 3: Execution

3.1 Condition of surfaces
Prior to grating 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 grating so defects can be remedied before grating is applied.

3.2 Grating installation

Install grating in accordance with manufacturer’s recommendations and shop drawings. Position grating sections flat and square with ends bearing min. 1½” on supporting structure. Keep grating 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. 1/8” 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 Grating attachment

Attach grating to supports without warp or deflection as follows:

a. Single plank application: Secure plank ends to supporting members at every point of contact. Use(2) Perf-O-Grip Bolt Seats or “J” Clip Assemblies at each end or secure both side channels at each end to supports by fusion welding with 1/8” fillet welds, 1 long. Weld adjacent planks together with 1/8” fillet welds, 1 long, 24” o.c. staggered top and bottom.

b. Multiple plank application: Secure perimeter plank to supporting members at every point of contact. Also intermediate sections with at least (1) attachment each end of plank, or alternate sides. For added rigidity when span exceeds (6’-0”) (8’-0”), attach side channels of adjacent plank together (at mid-point of span) using mid support clip using 1/8” mind clip and 1/8” fillet welds. Weld adjacent planks together with 1/8” fillet welds, 1 long. Weld adjacent planks together with 1/8” fillet welds, 1 long, 24” o.c. staggered top and bottom.

c. Welded attachment: Secure side channels to supports by fusion welding with 1/16” fillet welds, 1 long. Weld adjacent planks together with 1/16” fillet welds, 1 long, 24” o.c. staggered top and bottom. Shaded area to the right indicates welding to adjoining planks.


3.4 Stair Tread Installation

Install Perf-O-Grip and Perf-O-Grip 2 Stair Treads as shown on the drawings. Fasten treads to stair stringers with 9/16” x 1” machine bolts and nuts.

Technical Assistance
For technical assistance not found in this catalog, contact your local Perf-O-Grip and Perf-O-Grip 2 Gratings Distributor, or contact Cooper B-Line Technical Service Department at 1-800-851-9341 (phone) or 1-818-357-3605 (fax).

Perf-O-Grip and Perf-O-Grip 2 Grating and Traction Tread Flooring are stocked in all major markets. For the finest in slip-resistant grating and stair treads, contact Cooper B-Line or go to www.cooperonline.com to locate your local distributor. You will receive skilled consulting service on your specific requirements.

Fabrication Service
On large jobs, Cooper B-Line estimates, quotes, details and fabricates to your requirement. After receipt of order, layout drawings are prepared for easy installation.

Notice: We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claims shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.
Perf-O Grip® Applications

Notes to architect
1. Perf-O-Grip and Perf-O-Grip 2 Gratings are intended for general purpose use in plants and process facilities by industry, commerce, and public utilities, and on air, water, and surface, for both mobile and stationary equipment.
2. Perf-O-Grip and Perf-O-Grip 2 Stair Treads are intended for utility stairs and fire escapes in commercial, public and private buildings where local code permits. They are not intended for staircases used regularly by the general public where flat closed surfaces are desired. For this type of application, see Traction Tread stair treads and sheets.
3. These specifications are presented as a general guide to the architect or structural engineer in preparing project specifications.
4. All supports should provide a smooth, level, 1 1/2” 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 Perf-O-Grip and Perf-O-Grip 2 Gratings and Stair Treads, as specified and shown on the drawings.
1.2 Qualifications
Perf-O-Grip and Perf-O-Grip 2 Gratings, Stair Tread 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 Grating Materials
a. Type: (Perf-O-Grip and Perf-O-Grip 2 Gratings) (Perf-O-Grip Walkways)
b. Metal and Finish: Standard (mill-galvanized steel, ASTM A924) (stainless steel, alloy Types 304-2B/D) (aluminum, alloy 5052 H32); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (stainless steel, alloy Type 316-2B/D)
d. Section width: (5”) (7”) (10”) (12”) (18”) (24”) (30”) plank; (24”) (30”) (36”) walkway

2.2 Stair Tread Materials
a. Type: (Perf-O-Grip and Perf-O-Grip 2 Stair Tread)
b. Metal and Finish: Standard (mill-galvanized steel, ASTM A924) (stainless steel, alloy Types 304-2B/D) (aluminum, alloy 5052 H32); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (stainless steel, alloy Type 316-2B/D)
d. Tread Depth: Standard (10”); Special Order (5”) (7”) (12”)
e. Channel height: Standard (1 1/2”); Special Order (2”)
f. Span or Width of Staircase: (24”) (30”) (36”)

2.3 Accessories
a. Bolt Seats: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
b. “J” Clip Attachment: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
c. Midsupport Clip: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
Traction Tread Ladder Rungs

Traction Tread™ Ladder Rungs feature a hand-over-hand friendly surface with moderate slip resistance. Products are sold in efficient lengths, well suited to fabricators of ladders. Vehicle applications are extensive.

2-Hole Ladder Rung
- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.2 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.5 lbs./ft.)
- 1⅛" wide x 1⅛" high x 48" or 60" long

3-Hole Ladder Rung
- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.3 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.5 lbs./ft.)
- 1⅛" wide x 1¾" high x 48" or 60" long

4-Hole Ladder Rung
- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.5 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.7 lbs./ft.)
- 2¼" wide x 1½" high x 48" or 60" long

Specifications shown are for standard products. Consult Cooper B-Line for other options.

How To Read Load Tables
To select the proper size of Perf-O-Grip Grating, determine load, clear span and deflection requirements by first determining your loading requirements.

Example — Clear span of 4'-0" with a concentrated load requirement of 600 lbs. at 0.25" maximum deflection, for a 10'-0" wide plank; Refer to the 5-Hole Plank (10" Width), then locate the Clear Span subheading for 4'-0" to find the first occurrence of 600 lbs. (or greater) Concentrated Load (C). In this example, the 13 gauge, 2" depth product (part number P52013) carries a load of 648 lbs. with a 0.10" deflection. While this is one product which meets the minimum requirements, other options might be selected to carry greater loads. For economical selection, choose the greatest width that will support the load consistent with job requirements and choose deeper channels rather than heavier steel gauges.

How Load Tables Were Prepared
The values shown in the following tables are based on actual load tests. The tables have been prepared in accordance with the provisions of the AISI Specification for the Design of Cold-Formed Steel Structural Members, 1986 edition.

These load table values are based on consideration of side channel flexure only and do not consider grating surface performance. Side channel flexure occur when the channels at midspan of the plank deflect relative to support points. To verify the performance of the side channels, samples were loaded with concentrated and uniform loads at different spans (See Figures 1 and 2). To approximate the most severe condition, there were no attachments between the channels and the supports.

Deflection values indicated in the tables are the midspan side channel deflection produced when the allowable uniform or allowable concentrated load is placed at midspan. Load data is based on yield strength of 33,000 psi for steel, 27,000 psi for aluminum, 35,000 psi for Type 304 stainless steel, and 30,000 psi for Type 316-2B stainless steel.

(U) = Allowable Uniform Load (lbs./ft.)
(C) = Allowable Concentrated Load (lbs.) applied by 2" round bar across full width of grating
(D) = Vertical Deflection (inches) of side channels at mid span resulting from allowable load

Load/Deflection Conversion Formulas
In the elastic range, deflection is proportional to the applied load for both uniform and concentrated loads. This relationship can be used to determine the deflection that any load which is less than the allowable load will produce, as shown in Example A. If desired, the load which will produce a specific deflection can also be determined if the load is in the elastic range as illustrated in Example B.

Example A
What deflection will a 300 lb. midspan concentrated load produce on a plank spanning 5'-0" (part number P130011 - page 11)?

\[
C = 1517 \text{ lbs.} \quad D = 0.09''
\]
\[
D @ 300 \text{ lbs.} = 0.09'' x (300 \text{ lbs.} / 1517 \text{ lbs.}) = 0.02''
\]

Example B
If a plank (part number P132011 - page 11) is spanning 7'-0", what midspan concentrated load will produce a .25" deflection?

\[
C = 598 \text{ lbs.} \quad D = 0.27''
\]
\[
C @ .25'' = 598 \text{ lbs.} x (0.25'' / 0.27''). = 554 \text{ lbs.}
\]

Special Note On Planks
As width increases, grating surface performance becomes more critical. Thus, for Perf-O-Grip product widths greater than 12", use of the grating surface splice kit is recommended to mechanically join butt ends of plank sections.
## Perf-O Grip® Grating Load Tables

### Perf-O Grip — 2-Hole Plank — 5” Width

<table>
<thead>
<tr>
<th>Material</th>
<th>Gauge</th>
<th>Depth (in.)</th>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C=Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
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<tr>
<td>Steel</td>
<td>11/2”</td>
<td>2.6</td>
<td>P21013*</td>
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<td>.96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96</td>
</tr>
</tbody>
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**Perf-O Grip**: To order standard Perf-O Grip Grating see part number “Pxxxxx”.

**Perf-O Grip 2**: To order New Perf-O Grip 2™ Grating see part number “Axxxxx”. End margins are standard on new Perf-O Grip 2™ Grating.

### Perf-O-Grip Perf-O-Grip 2

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<th>Material</th>
<th>Gauge</th>
<th>Depth (in.)</th>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C=Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
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</thead>
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<tr>
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<td>P21013*</td>
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<td>D .05 .08 .11</td>
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<td>.96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96 .96</td>
</tr>
</tbody>
</table>

**Perf-O Grip**: To order standard Perf-O Grip Grating see part number “Pxxxxx”.

**Perf-O Grip 2**: To order New Perf-O Grip 2™ Grating see part number “Axxxxx”. End margins are standard on new Perf-O Grip 2™ Grating.

### Traction Tread™ Planks

Traction Tread™ Planks feature a moderate slip-resistance surface designed for maximum versatility. Planks are kind to knees and hands in commercial applications, including scaffolding. Surface textures work well for cart and wheeled traffic.

**Material Options:**
- Hot rolled, pickled and oiled carbon steel: 11 gauge and 13 gauge
- Mill-galvanized steel: 11 gauge and 13 gauge
- Aluminum alloy 5052-H32: .125"
- Hot dipped galvanized after fabrication (HDGAF)
- LH pattern

**Plank Dimensions:**
- 6” wide (nominal)
- 120” and 144” lengths (nominal)
- 1 1/2” minimum of 2” channel height
Compliant requirements.

Pedestrian traffic is a consideration, perfectly suited for ADA compliant requirements. Tread is also appropriate for commercial applications where stair treads and equipment platforms. Traction Tread is ideal for the manufacture of special and fabricated products, and is often used as a reconditioning material over existing surfaces that do not provide slip-resistance.

Traction Tread™ flooring is readily available in stock sheets designed for secondary fabrication requirements.

Material Options:
- Hot rolled, pickled and oiled carbon steel: 11 gauge (5.0 lbs./sq. ft.), 13 gauge (3.8 lbs./sq. ft.), 16 gauge (2.5 lbs./sq. ft.)
- Aluminum alloy 5052-H32: 0.125” (1.6 lbs./sq. ft.)
- Note: 14 ga. & 12 ga. carbon steel and 16 ga. 304 stainless steel are also available

Sheet Size:
- Standard 36” x 120”
- Cut to order

A32014S

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<th>Width (in.)</th>
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<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
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<tr>
<td>Load (lb.)</td>
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<td>242</td>
<td>319</td>
<td>406</td>
<td>503</td>
<td>600</td>
<td>707</td>
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</table>

Perf-O Grip — 3-Hole Plank — 7” Width

| Perf-O Grip 2
| Perf-O Grip 2

Perf-O Grip — 3-Hole Plank — 9” Width

Plank Selection/Design Tables

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<tr>
<th>Channel Depth (in.)</th>
<th>3/8”</th>
<th>1/4”</th>
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<th>1/8”</th>
<th>7/32”</th>
<th>1/16”</th>
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<tr>
<td>Width (in.)</td>
<td>2’</td>
<td>3’</td>
<td>4’</td>
<td>5’</td>
<td>6’</td>
<td>8’</td>
<td>10’</td>
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<tr>
<td>Stock Weight (lbs.)</td>
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<td>36</td>
<td>52</td>
<td>70</td>
<td>88</td>
<td>110</td>
<td>132</td>
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For detailed information, please refer to the Traction Tread™ Perf-O Grip® Grating Load Tables.
Perf-O Grip® Grating Load Tables

Perf-O Grip — 5-Hole Plank — 10" Width

Allowable Loads and Deflections:  

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<tr>
<th>Channel Weight</th>
<th>Span</th>
<th>Material Depth</th>
<th>lb./lin. ft.</th>
<th>Catalog Number</th>
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<td>P51511*</td>
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<td>A51511</td>
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<td>4'</td>
<td>Steel</td>
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<td></td>
<td>4'</td>
<td>Steel</td>
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</tr>
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</table>

Perf-O Grip® to order standard Perf-O Grip Grating use part number "Pxxxxx".

Perf-O Grip 2 to order New Perf-O Grip 2™ Grating use part number "Axxxxx". End margins are standard on new Perf-O Grip 2™ Grating 2-Hole through 6-Hole Plank only (5" through 12" widths). Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.

**Stair Treads**

Stair Treads are also available with Traction Tread™ and other options. Consult factory with design questions.

**Carrier Plates**

Carrier Plates allow you to create your own custom stair treads. They are sold by the pair (2 plates = one pair).
### Perf-O Grip® Accessories

#### Perf-O Grip® Grating Load Tables

<table>
<thead>
<tr>
<th>Channel Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2”</td>
<td>4.3</td>
<td>P61513*</td>
</tr>
<tr>
<td>2”</td>
<td>4.6</td>
<td>P62013*</td>
</tr>
<tr>
<td>2”</td>
<td>5.5</td>
<td>P62011*</td>
</tr>
<tr>
<td>4”</td>
<td>3.2</td>
<td>P62016S*</td>
</tr>
<tr>
<td>4”</td>
<td>3.8</td>
<td>P62014S*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Steel</td>
<td>A61513</td>
</tr>
<tr>
<td></td>
<td>11/2”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>P62013*</td>
</tr>
<tr>
<td></td>
<td>3”</td>
<td>P63011*</td>
</tr>
<tr>
<td></td>
<td>11 ga.</td>
<td>A62011</td>
</tr>
<tr>
<td></td>
<td>18”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Steel</td>
<td>A620125</td>
</tr>
<tr>
<td></td>
<td>16”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stainless</td>
<td>A62016S</td>
</tr>
</tbody>
</table>

#### Walkway Splice Plate Kits

Walkway Splice Plates provide continuity when multiple lengths of Perf-O-Grip are desired. Connections are reinforced with the addition of splice plates attached to side channels.

- **POG-WS-30** for 24”, 30” and 36” wide walkway.
  - Each Kit includes: Two (2) splice plates and thirty-two (32) each of the following hardware: 1/2" x 1 1/4" hex bolts, 1/2"-13 hex nuts and 1/2" flat washers.

### Plank Selection/Design Tables

#### Allowable Loads and Deflections

- **U**=Uniform Load (lb./ft.²)
- **C**=Concentrated Load (lb.)
- **D**=Deflection (in.)

<table>
<thead>
<tr>
<th>Material Depth lb./lin. ft.</th>
<th>Channel Depth in. (mm)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2’-0”  2’-6”  3’-0”  3’-6”  4’-0”  4’-6”  5’-0”  5’-6”  6’-0”  6’-6”  7’-0”  7’-6”  8’-0”  9’-0”  10’-0”  11’-0”  12’-0”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>4.6</td>
<td>P62013*</td>
</tr>
<tr>
<td></td>
<td>3”</td>
<td>5.5</td>
<td>P62011*</td>
</tr>
<tr>
<td></td>
<td>4”</td>
<td>3.2</td>
<td>P62016S*</td>
</tr>
<tr>
<td></td>
<td>4”</td>
<td>3.8</td>
<td>P62014S*</td>
</tr>
</tbody>
</table>

### Perf-O-Grip® Grip Plate Kits

- **POG-ES-10** for 18” wide plank includes six (6) each of hardware shown below.
- **POG-ES-13** for 24” wide plank includes six (6) each of hardware shown below.
- **POG-ES-16** for 30” wide plank includes eight (8) each of hardware shown below.
- **POG-ES-20** for 36” wide plank includes eight (8) each of hardware shown below.
- **Hardware included**: 3/16” x 1” carriage bolts, 7/8” flat washers and bolt seats.

### Surface Splice Plate Kits

As width increases, grating surface performance becomes more critical. Thus, for Perf-O-Grip product widths greater than 12”, use of the grating surface splice kit is recommended to mechanically join butt ends of plank sections.

- **POG-ES-10** for 18” wide plank includes six (6) each of hardware shown below.
- **POG-ES-13** for 24” wide plank includes six (6) each of hardware shown below.
- **POG-ES-16** for 30” wide plank includes eight (8) each of hardware shown below.
- **POG-ES-20** for 36” wide plank includes eight (8) each of hardware shown below.

#### Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth in. (mm)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2’-0”  2’-6”  3’-0”  3’-6”  4’-0”  4’-6”  5’-0”  5’-6”  6’-0”  6’-6”  7’-0”  7’-6”  8’-0”  9’-0”  10’-0”  11’-0”  12’-0”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>5.5</td>
<td>P62011*</td>
</tr>
<tr>
<td></td>
<td>3”</td>
<td>6.2</td>
<td>P63011*</td>
</tr>
<tr>
<td></td>
<td>11 ga.</td>
<td>0.125”</td>
<td>A620125</td>
</tr>
<tr>
<td></td>
<td>18”</td>
<td>3/16”</td>
<td>A62014S</td>
</tr>
</tbody>
</table>

### Perf-O Grip® 6-Hole Plank — 12” Width

- **POG-ES-10**: 3/16” C to C
- **POG-ES-13**: 3/8” C to C
- **POG-ES-16**: 1/2” C to C
- **POG-ES-20**: 5/8” C to C

### Perf-O Grip® 6-Hole Plank — 12” Width

- **POG-ES-10**: 3/16” C to C
- **POG-ES-13**: 3/8” C to C
- **POG-ES-16**: 1/2” C to C
- **POG-ES-20**: 5/8” C to C

### Perf-O Grip® 2

- **POG-WS-30**: 1/2”, 2” or 3” x 1/16” ± 1/16”
- **POG-WS-30**: 7/8” ± 1/8”
- **POG-WS-30**: 1 11/16” ± 1/16”
- **POG-WS-30**: 90°
- **POG-WS-30**: 3/32”
- **POG-WS-30**: 1 7/8”
- **POG-WS-30**: 4 1/2”
- **POG-WS-30**: 30” C to C
- **POG-WS-30**: 3 3/4” C to C

### Perf-O Grip® 2

- **POG-ES-10**: 3/16” C to C
- **POG-ES-13**: 3/8” C to C
- **POG-ES-16**: 1/2” C to C
- **POG-ES-20**: 5/8” C to C

* **Perf-O Grip**: To order standard Perf-O Grip Grating use part number “Pxxxxx”.
* **Perf-O Grip 2**: To order New Perf-O Grip 2™ Grating use part number “Axxxxx”. End margins are standard on New Perf-O Grip 2™ Grating. 2-Hole through 6-Hole Plank only (5” through 12” widths). Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.
**Perf-O Grip® Grating Load Tables**

### Perf-O Grip — 10-Hole Plank — 18” Width

**Perf-O Grip**: To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available. Consult factory.

---

#### Plank Selection/Design Tables

**Allowable Loads and Deflections**:  
- **U**=Uniform Load (lb./ft.²)  
- **C**= Concentrated Load (lb.)  
- **D**=Deflection (in.)

<table>
<thead>
<tr>
<th>Channel Width</th>
<th>Gauge</th>
<th>Catalog Number</th>
<th>2’-0”</th>
<th>2’-6”</th>
<th>3’-0”</th>
<th>3’-6”</th>
<th>4’-0”</th>
<th>4’-6”</th>
<th>5’-0”</th>
<th>5’-6”</th>
<th>6’-0”</th>
<th>6’-6”</th>
<th>7’-0”</th>
<th>7’-6”</th>
<th>8’-0”</th>
<th>9’-0”</th>
<th>10’-0”</th>
<th>11’-0”</th>
<th>12’-0”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Depth</td>
<td>lb./lin. ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td>2”</td>
<td>P101511</td>
<td>714</td>
<td>457</td>
<td>317</td>
<td>233</td>
<td>179</td>
<td>142</td>
<td>116</td>
<td>96</td>
<td>82</td>
<td>69</td>
<td>60</td>
<td>52</td>
<td>45</td>
<td>36</td>
<td>29</td>
<td>24</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>11/2”</td>
<td>(38.1)</td>
<td>(5.7)</td>
<td>694</td>
<td>437</td>
<td>302</td>
<td>224</td>
<td>179</td>
<td>142</td>
<td>116</td>
<td>96</td>
<td>82</td>
<td>69</td>
<td>60</td>
<td>52</td>
<td>45</td>
<td>36</td>
<td>29</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>P102011</td>
<td>1072</td>
<td>666</td>
<td>476</td>
<td>360</td>
<td>286</td>
<td>212</td>
<td>172</td>
<td>142</td>
<td>123</td>
<td>103</td>
<td>90</td>
<td>78</td>
<td>68</td>
<td>58</td>
<td>49</td>
<td>41</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>11/2”</td>
<td>(38.1)</td>
<td>(6.0)</td>
<td>1043</td>
<td>638</td>
<td>448</td>
<td>345</td>
<td>272</td>
<td>211</td>
<td>171</td>
<td>142</td>
<td>123</td>
<td>103</td>
<td>90</td>
<td>78</td>
<td>68</td>
<td>58</td>
<td>49</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>P103011</td>
<td>1781</td>
<td>1108</td>
<td>755</td>
<td>595</td>
<td>484</td>
<td>376</td>
<td>300</td>
<td>248</td>
<td>210</td>
<td>178</td>
<td>147</td>
<td>126</td>
<td>107</td>
<td>90</td>
<td>78</td>
<td>68</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td>11/2”</td>
<td>(38.1)</td>
<td>(7.1)</td>
<td>1781</td>
<td>1108</td>
<td>755</td>
<td>595</td>
<td>484</td>
<td>376</td>
<td>300</td>
<td>248</td>
<td>210</td>
<td>178</td>
<td>147</td>
<td>126</td>
<td>107</td>
<td>90</td>
<td>78</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>2”</td>
<td>P104011</td>
<td>2675</td>
<td>1708</td>
<td>1247</td>
<td>1018</td>
<td>858</td>
<td>732</td>
<td>635</td>
<td>556</td>
<td>494</td>
<td>441</td>
<td>398</td>
<td>357</td>
<td>318</td>
<td>290</td>
<td>263</td>
<td>240</td>
<td>219</td>
</tr>
<tr>
<td></td>
<td>11/2”</td>
<td>(38.1)</td>
<td>(7.9)</td>
<td>2675</td>
<td>1708</td>
<td>1247</td>
<td>1018</td>
<td>858</td>
<td>732</td>
<td>635</td>
<td>556</td>
<td>494</td>
<td>441</td>
<td>398</td>
<td>357</td>
<td>318</td>
<td>290</td>
<td>263</td>
<td>240</td>
</tr>
<tr>
<td>Alum. 1/8”</td>
<td>2”</td>
<td>P1080125</td>
<td>892</td>
<td>535</td>
<td>414</td>
<td>324</td>
<td>248</td>
<td>200</td>
<td>165</td>
<td>140</td>
<td>121</td>
<td>104</td>
<td>90</td>
<td>78</td>
<td>68</td>
<td>58</td>
<td>49</td>
<td>41</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>1/8”</td>
<td>(3.2)</td>
<td>(4.1)</td>
<td>1657</td>
<td>1022</td>
<td>775</td>
<td>626</td>
<td>503</td>
<td>408</td>
<td>342</td>
<td>291</td>
<td>248</td>
<td>210</td>
<td>178</td>
<td>147</td>
<td>126</td>
<td>107</td>
<td>90</td>
<td>78</td>
</tr>
</tbody>
</table>

---

#### Mid-Clip

Perf-O-Grip Midsupport clips can be used at midspan to increase load carrying capacities of individual channels by fastening several planks together to form an integral section. Midsupport Clip is manufactured from galvanized steel and includes two bolts.

#### J-Clip

Perf-O-Grip J-Clips fasten the grating securely to the supporting steel without drilling holes. Standard finish is galvanized. Hardware is not provided.

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**Perf-O Grip® Accessories**

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[Image of Perf-O Grip Grating Load Tables]

[Image of Perf-O Grip Accessories]

[Image of Grating Support Clips]
### Perf-O Grip® Accessories

#### Bolt Seats

Perf-O-Grip Bolt Seats provide a secure anchor of the grating to structural supports. The standard bolt seat features oblong holes specifically designed to ensure a vertical anchor (with a 3/8” bolt) even if the hole is off concentrically by as much as 1/4”.

Available in mill-galvanized steel, aluminum and stainless steel. Hardware is not provided.

**P-Bolt Seat (standard)**

#### Perf-O Grip — 13-Hole Plank — 24” Width

**Perf-O Grip® Grating Load Tables**

**Plank Selection/Design Tables**

Perf-O Grip Bolt Seats provide a secure anchor of the grating to structural supports. The standard bolt seat features oblong holes specifically designed to ensure a vertical anchor (with a 3/8” bolt) even if the hole is off concentrically by as much as 1/4”.

Available in mill-galvanized steel, aluminum and stainless steel. Hardware is not provided.

**P-Bolt Seat (standard)**

![P-Bolt Seat](image)

---

**Perf-O Grip**

To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available. Consult factory.

---

**Perf-O Grip**

To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available. Consult factory.

---

**Perf-O Grip® Grating Load Tables**

**Perf-O Grip — 13-Hole Plank — 24” Width**

**Perf-O Grip® Accessories**

**Bolt Seats**

Perf-O-Grip Bolt Seats provide a secure anchor of the grating to structural supports. The standard bolt seat features oblong holes specifically designed to ensure a vertical anchor (with a 3/8” bolt) even if the hole is off concentrically by as much as 1/4”.

Available in mill-galvanized steel, aluminum and stainless steel. Hardware is not provided.

**P-Bolt Seat (standard)**

![P-Bolt Seat](image)
# Perf-O Grip® Grating Load Tables

Perf-O Grip — 16-Hole Plank — 30” Width

### Allowable Loads and Deflections:
- **U**=Uniform Load (lb./ft.²)
- **C**= Concentrated Load (lb.)
- **D**=Deflection (in.)

<table>
<thead>
<tr>
<th>Channel Weight Span</th>
<th>Material Depth</th>
<th>lb./lin.</th>
<th>Gauge</th>
<th>(mm)</th>
<th>(kg/m)</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'-0&quot; 2'-6&quot; 3'-0&quot; 3'-6&quot; 4'-0&quot; 4'-6&quot; 5'-0&quot; 5'-6&quot; 6'-0&quot; 6'-6&quot; 7'-0&quot; 7'-6&quot; 8'-0&quot; 9'-0 10'-0' 11'-0&quot; 12'-0&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Steel 3&quot; (101.6)</strong></td>
<td>11 ga.</td>
<td>11.8</td>
<td>.02</td>
<td>P163011W</td>
<td>956</td>
<td>612</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.03</td>
<td></td>
<td>951</td>
<td>594</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.04</td>
<td></td>
<td>654</td>
<td>396</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.06</td>
<td></td>
<td>256</td>
<td>159</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.08</td>
<td></td>
<td>256</td>
<td>159</td>
</tr>
</tbody>
</table>

**Perf-O Grip**: To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available. Consult factory.

---

# Perf-O Grip® Walkway Load Tables

Perf-O Grip — Walkway — 24”, 30” & 36” Widths

### Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Channel Weight Span</th>
<th>Material Depth</th>
<th>lbs.</th>
<th>Gauge</th>
<th>(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;, 3&quot;, or 4&quot; ±1/16&quot;</td>
<td>7/16&quot; ±1/8&quot;</td>
<td>2915/16&quot; ±1/16&quot;</td>
<td>90°</td>
<td></td>
</tr>
</tbody>
</table>

**Perf-O Grip**: To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available. Consult factory.

---

# Walkway Selection/Design Tables (Note: Consult factory for data on 36" width)

<table>
<thead>
<tr>
<th>Channel Weight Span</th>
<th>Material Depth</th>
<th>lbs.</th>
<th>Gauge</th>
<th>(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot;, 6&quot;, or 7&quot; 5/32&quot;</td>
<td>5/16&quot; 90°</td>
<td>6388</td>
<td>4670</td>
<td>3892</td>
</tr>
</tbody>
</table>

**Perf-O Grip**: To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available. Consult factory.
### Perf-O Grip® Grating Load Tables

#### Perf-O Grip — 16-Hole Plank — 30” Width

<table>
<thead>
<tr>
<th>Material</th>
<th>Channel Weight Span</th>
<th>Allowable Loads and Deflections:</th>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” (50.8)</td>
<td>2'-0” 2'-6” 3'-0” 3'-6” 4'-0” 4'-6” 5'-0” 5'-6” 6'-0” 6'-6” 7'-0” 7'-6” 8'-0” 9'-0” 10'-0” 11'-0” 12'-0” 13” (101.6)</td>
<td>Steel P163011</td>
<td>916 612 435 312 239 189 153 126 106 91 77 68 60 47 38 32 27</td>
<td>2” 11.8</td>
<td>01 02 03 04 06 07 09 10 12 14 16 19 22 26 32 40 50</td>
</tr>
<tr>
<td>3” (76.2)</td>
<td>2'-0” 2'-6” 3'-0” 3'-6” 4'-0” 4'-6” 5'-0” 5'-6” 6'-0” 6'-6” 7'-0” 7'-6” 8'-0” 9'-0” 10'-0” 11'-0” 12'-0” 13” (101.6)</td>
<td>Steel P163011</td>
<td>1413 954 629 461 353 279 226 187 157 124 116 102 90 70 57 46 39</td>
<td>5” 13.6</td>
<td>02 03 04 06 08 09 10 12 14 17 20 22 26 30 38 47 57 67</td>
</tr>
</tbody>
</table>
| 4” (101.6) | 2'-0” 2'-6” 3'-0” 3'-6” 4'-0” 4'-6” 5'-0” 5'-6” 6'-0” 6'-6” 7'-0” 7'-6” 8'-0” 9'-0” 10'-0” 11'-0” 12'-0” 13” (101.6) | Steel P164011 | 2240 1434 956 731 560 442 358 296 249 212 183 159 140 111 91 75 64 | 5” 13.6 | 01 02 02 03 04 06 07 09 10 12 14 17 20 22 29 36 44 52 | .00 .01 .02 .03 .04 .05 .07 .09 .11 .13 .16 .19 .22 .29 .38 .48 | 29

### Perf-O Grip® Walkway Load Tables

#### Perf-O Grip — Walkway — 24”, 30” & 36” Widths

Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Allowable Loads and Deflections:</th>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”, 3” or 4” ± 1/16”</td>
<td>2915/16” ± 1/16”</td>
<td>90°</td>
<td></td>
</tr>
</tbody>
</table>

Walkway Selection/Design Tables (Note: Consult factory for data on 36” width)

<table>
<thead>
<tr>
<th>Allowable Loads and Deflections:</th>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5” ± 1/8”</td>
<td>24”</td>
<td>30”</td>
<td>36”</td>
</tr>
</tbody>
</table>

Perf-O Grip: To order standard Perf-O Grip Grating use part number “Pxxxxx.” Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available. Consult factory.

Cooper B-Line
Perf-O Grip® Accessories

Bolt Seats

Perf-O-Grip Bolt Seats provide a secure anchor of the grating to structural supports. The standard bolt seat features oblong holes specifically designed to ensure a vertical anchor (with a 3/8” bolt) even if the hole is off concentrically by as much as 1/4". Available in mill-galvanized steel, aluminum and stainless steel. Hardware is not provided.

P-Bolt Seat (standard)

Perf-O Grip — 13-Hole Plank — 24” Width

Perf-O Grip® Grating Load Tables

Plank Selection/Design Tables

Perf-O-Grip Bolt Seats provide a secure anchor of the grating to structural supports. The standard bolt seat features oblong holes specifically designed to ensure a vertical anchor (with a 3/8” bolt) even if the hole is off concentrically by as much as 1/4". Available in mill-galvanized steel, aluminum and stainless steel. Hardware is not provided.

Plank Selection/Design Tables

Perf-O Grip: To order standard Perf-O Grip Grating use part number “Pxxxxx”. Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available. Consult factory.
Perf-O Grip® Grating Load Tables

Perf-O Grip — 10-Hole Plank — 18” Width

Allowable Loads and Deflections:

- U = Uniform Load (lb./ft.)
- C = Concentrated Load (lb.)
- D = Deflection (in.)

| Material Depth | Spans          | 2'-0" | 2'-6" | 3'-0" | 3'-6" | 4'-0" | 4'-6" | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 9'-0" | 10'-0" | 11'-0" | 12'-0" |
|----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11/2" (38.1)  | Steel         | 5.7 (0.5) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                |               | U      | 714   | 457   | 323   | 179   | 116   | 92    | 66    | 53    | 43    | 36    | 29    | 24    | 21    |       |       |
|                |               | C      | 964   | 711   | 551   | 404   | 323   | 274   | 243   | 214   | 185   | 159   | 133   | 113   | 98    | 83    | 71    |
|                |               | D      | 0.04  | 0.06  | 0.10  | 0.13  | 0.17  | 0.21  | 0.26  | 0.31  | 0.36  | 0.42  | 0.48  | 0.55  | 0.63  | 0.73  | 0.85  |
| 2" (51.0)     | Steel         | 6.0 (0.6) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                |               | U      | 1072  | 686   | 501   | 380   | 301   | 243   | 201   | 167   | 141   | 121   | 103   | 88    | 74    | 64    | 55    |
|                |               | C      | 1452  | 1162  | 968   | 830   | 726   | 645   | 581   | 528   | 495   | 444   | 404   | 365   | 329   | 299   | 274   |
|                |               | D      | 0.03  | 0.04  | 0.05  | 0.06  | 0.09  | 0.12  | 0.15  | 0.18  | 0.22  | 0.26  | 0.30  | 0.36  | 0.42  | 0.48  | 0.53  |
| 11/2" (38.1)  | Steel         | 7.1 (1.0) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                |               | U      | 1715  | 1066  | 819   | 650   | 521   | 425   | 354   | 304   | 265   | 230   | 199   | 176   | 156   | 139   | 123   |
|                |               | C      | 2675  | 1712  | 1354  | 1106  | 952   | 826   | 724   | 641   | 592   | 540   | 491   | 444   | 404   | 365   | 329   |
|                |               | D      | 0.02  | 0.04  | 0.05  | 0.07  | 0.09  | 0.12  | 0.15  | 0.18  | 0.22  | 0.26  | 0.30  | 0.36  | 0.42  | 0.48  | 0.54  |
| 3" (76.2)     | Steel         | 7.9 (1.3) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                |               | U      | 3531  | 2625  | 2034  | 1766  | 1569  | 1412  | 1254  | 1117  | 1041  | 976   | 911   | 847   | 787   | 730   | 679   |
|                |               | C      | 6696  | 4975  | 4064  | 3428  | 2934  | 2524  | 2198  | 1967  | 1757  | 1602  | 1469  | 1354  | 1254  | 1156  | 1073  |
|                |               | D      | 0.01  | 0.02  | 0.03  | 0.04  | 0.05  | 0.07  | 0.10  | 0.13  | 0.16  | 0.20  | 0.25  | 0.30  | 0.35  | 0.40  | 0.45  |
| Alum. 0.125"  | Steel         | 2.8 (0.4) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                |               | U      | 892   | 635   | 441   | 324   | 248   | 196   | 158   | 131   | 110   | 94    | 81    | 70    | 62    | 53    | 43    |
|                |               | C      | 1675  | 1122  | 826   | 674   | 561   | 469   | 404   | 358   | 320   | 289   | 261   | 235   | 209   | 187   | 167   |
|                |               | D      | 0.05  | 0.08  | 0.13  | 0.17  | 0.22  | 0.28  | 0.35  | 0.42  | 0.50  | 0.59  | 0.79  | 0.89  | 1.13  | 1.40  | 1.69  |

Perf-O Grip: To order standard Perf-O Grip Grating use part number “Pxxxxx”.

Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available. Consult factory.

Mid-Clip
Perf-O-Grip Midsupport clips can be used at midspan to increase load carrying capacities of individual channels by fastening several planks together to form an integral section. Midsupport Clip is manufactured from galvanized steel and includes two bolts.

J-Clip
Perf-O-Grip J-Clips fasten the grating securely to the supporting steel without drilling holes. Standard finish is galvanized. Hardware is not provided.
### Perf-O Grip® Accessories

#### Perf-O Grip® Grating Load Tables

**Perf-O Grip — 6-Hole Plank — 12” Width**

<table>
<thead>
<tr>
<th>Channel Depth (in.)</th>
<th>Weight per ft. (lb.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2&quot;</td>
<td>4.3</td>
<td>P61513</td>
</tr>
<tr>
<td>2&quot;</td>
<td>4.6</td>
<td>P62013</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>5.3</td>
<td>P61511</td>
</tr>
<tr>
<td>3&quot;</td>
<td>5.5</td>
<td>P62011</td>
</tr>
<tr>
<td>4&quot;</td>
<td>6.2</td>
<td>P63011</td>
</tr>
</tbody>
</table>

#### Plank Selection/Design Tables

**As width increases, grating surface performance becomes more critical. Thus, for Perf-O-Grip product widths greater than 12”, use of the grating surface splice kit is recommended to mechanically join butt ends of plank sections.**

- **POG-ES-10** for 18” wide plank includes six (6) each of the following hardware: 3/8” x 1” carriage bolts, 3/8” flat washers and bolt seats.
- **POG-ES-13** for 24” wide plank includes sixteen (16) each of the following hardware: 3/8” x 1” carriage bolts, 3/8” flat washers and bolt seats.
- **POG-ES-16** for 30” wide plank includes twenty (20) each of the following hardware: 3/8” x 1” carriage bolts, 3/8” flat washers and bolt seats.
- **POG-ES-20** for 36” wide plank includes twenty (20) each of the following hardware: 3/8” x 1” carriage bolts, 3/8” flat washers and bolt seats.

**Walkway Splice Plate Kits**

Walkway Splice Plates provide continuity when multiple lengths of Perf-O-Grip are desired. Connections are reinforced with the addition of splice plates attached to side channels.

- **POG-WS-30** for 24”, 30” and 36” wide walkway.
- Each Kit includes: Two (2) splice plates and thirty-two (32) each of the following hardware: 1/2” x 1 1/4” hex bolts, 1/2”-13 nuts and 1/2” flat washers.

**Perf-O Grip 2**

To order New Perf-O Grip 2™ Grating use part number “Axxxxx”. End margins are standard on new Perf-O Grip 2™ Grating 2-Hole through 6-Hole Plank only (5” through 12” widths). Standard lengths are 10’-0” and 12’-0”. Longer lengths of 20’-0” and 24’-0” are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.
Perf-O Grip® Grating Load Tables

Stair Treads & Carrier Plates

Perf-O Grip — 5-Hole Plank — 10" Width

<table>
<thead>
<tr>
<th>Material</th>
<th>Channel Weight Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>15 ga.</td>
</tr>
<tr>
<td>Steel</td>
<td>11 ga.</td>
</tr>
<tr>
<td>Alum.</td>
<td>1.8</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>0.125&quot;</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>0.0625&quot;</td>
</tr>
</tbody>
</table>

Perf-O-Grip Carrier Plate

<table>
<thead>
<tr>
<th>Nominal Width</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; Hole Tread</td>
<td>5&quot; (127mm)</td>
<td>1/2&quot; (12.7mm)</td>
<td>1/4&quot; (6.35mm)</td>
<td>1/8&quot; (3.175mm)</td>
</tr>
<tr>
<td>3&quot; Hole Tread</td>
<td>7&quot; (178mm)</td>
<td>1/2&quot; (12.7mm)</td>
<td>1/4&quot; (6.35mm)</td>
<td>1/8&quot; (3.175mm)</td>
</tr>
<tr>
<td>4&quot; Hole Tread</td>
<td>9&quot; (229mm)</td>
<td>1/2&quot; (12.7mm)</td>
<td>1/4&quot; (6.35mm)</td>
<td>1/8&quot; (3.175mm)</td>
</tr>
<tr>
<td>5&quot; Hole Tread</td>
<td>10&quot; (254mm)</td>
<td>1/2&quot; (12.7mm)</td>
<td>1/4&quot; (6.35mm)</td>
<td>1/8&quot; (3.175mm)</td>
</tr>
<tr>
<td>6&quot; Hole Tread</td>
<td>12&quot; (305mm)</td>
<td>1/2&quot; (12.7mm)</td>
<td>1/4&quot; (6.35mm)</td>
<td>1/8&quot; (3.175mm)</td>
</tr>
</tbody>
</table>

Perf-O-Grip Stair Treads (standard)

Specify original Perf-O-Grip or Perf-O-Grip 2 Stair Treads. All treads have welded ends for attachment to stringers.

- Hot rolled, pickled and oiled carbon steel: 11 ga and 13 ga.
- 24", 30" and 36" lengths.
- 5", 7" 10" and 12" (nominal) widths.
- 1-1/4" and 2" channel heights.

Stair Treads (custom)

Stair Treads are also available with Traction Tread™ and other options. Consult factory with design questions.

Carrier Plates

Carrier Plates allow you to create your own custom stair treads. They are sold by the pair (2 plates = one pair).
Traction Tread™ Flooring

Traction Tread™ Flooring feature a surface with hundreds of perforated buttons that provide slip-resistance in all directions making it a practical choice for industrial applications. Traction Tread is also appropriate for commercial applications where pedestrian traffic is a consideration, perfectly suited for ADA-compliant requirements.

Traction Tread is easily adapted for a multitude of applications, offering a safe walking-working surface for walkways, ramps, stair treads and equipment platforms. Traction Tread is ideal for the manufacture of special and fabricated products, and is often used as a reconditioning material over existing surfaces that do not provide slip-resistance.

Traction Tread™ is available as shown above as a standard product, however, variations to the surface design can be produced according to your requirement (see examples illustrated below).

Traction Tread™ flooring is readily available in stock sheets designed for secondary fabrication requirements:

- **Material Options:**
  - Hot rolled, pickled and oiled carbon steel: 11 gauge (5.0 lbs./sq. ft.), 13 gauge (3.8 lbs./sq. ft.), 16 gauge (2.5 lbs./sq. ft.).
  - Aluminum alloy 5052-H32: .125" (1.6 lbs./sq. ft.).
  - Note: 14 ga. & 12 ga. carbon steel and 16 ga. 304 stainless steel are also available.

Traction Tread™ is designed for secondary fabrication requirements:

- **Cut to order**
- **Standard 36" x 120"**

**Material Options:**

- **Steel**
  - 11 ga. (50.8) (7.1)
  - 13 ga. (50.8) (6.7)
  - 14 ga. (50.8) (6.1)
  - Hot rolled, pickled and oiled carbon steel: 11 gauge (5.0 lbs./sq. ft.), 13 gauge (3.8 lbs./sq. ft.), 16 gauge (2.5 lbs./sq. ft.).
  - Aluminum alloy 5052-H32: .125" (1.6 lbs./sq. ft.).
  - Note: 14 ga. & 12 ga. carbon steel and 16 ga. 304 stainless steel are also available.

**Perf-O Grip Grating Load Tables**

### Perf-O Grip—3-Hole Plank—7" Width

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>11/2&quot; (38.1)</td>
<td>.04</td>
<td>P25011S</td>
</tr>
<tr>
<td></td>
<td>3&quot; (76.2)</td>
<td>.07</td>
<td>A20011S</td>
</tr>
<tr>
<td>Steel</td>
<td>2&quot; (50.8)</td>
<td>.08</td>
<td>P250211</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; Dia.</td>
<td>.10</td>
<td>A200211</td>
</tr>
<tr>
<td>Steel</td>
<td>2&quot; (4.5)</td>
<td>.08</td>
<td>P250311</td>
</tr>
<tr>
<td></td>
<td>7/8&quot; ± 1/8&quot;</td>
<td>.10</td>
<td>A200311</td>
</tr>
</tbody>
</table>

**Perf-O Grip—2 Hole Plank—3" Width**

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>11/2&quot; (38.1)</td>
<td>.03</td>
<td>P25011S</td>
</tr>
<tr>
<td></td>
<td>3&quot; (76.2)</td>
<td>.03</td>
<td>A20011S</td>
</tr>
<tr>
<td>Steel</td>
<td>2&quot; (50.8)</td>
<td>.03</td>
<td>P250211</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; Dia.</td>
<td>.03</td>
<td>A200211</td>
</tr>
<tr>
<td>Steel</td>
<td>2&quot; (4.5)</td>
<td>.03</td>
<td>P250311</td>
</tr>
<tr>
<td></td>
<td>7/8&quot; ± 1/8&quot;</td>
<td>.03</td>
<td>A200311</td>
</tr>
</tbody>
</table>

**Perf-O Grip 2™ Grating**

Perf-O Grip 2™ Grating is available in both 2-Hole and 6-Hole Plank only (5" through 12" widths). Standard lengths are 10'-0" and 12'-0". Longer lengths of 20'-0" and 24'-0" are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.
Perf-O Grip® Grating Load Tables

**Perf-O Grip — 2-Hole Plank — 5” Width**

**Traction Tread™ Planks**

Traction Tread™ Planks feature a moderate slip-resistance surface designed for maximum versatility. Planks are kind to knees and hands in commercial applications, including scaffolding. Surface textures work well for cart and wheeled traffic.

**Material Options:**
- Hot rolled, pickled and oiled carbon steel: 11 gauge and 13 gauge
- Mill-quantized steel: 11 gauge and 13 gauge
- Aluminum alloy 5052-H32: .125" thick
- Hot dipped galvanized after fabrication (HDGAF)
- LH pattern

**Plank Dimensions:**
- 6’ wide (nominal)
- 12” and 144” lengths (nominal)
- 11/2” minimum of 2” channel height

---

**Plank Selection/Design Tables**

**Perf-O Grip — 2-Hole Plank — 5” Width**

<table>
<thead>
<tr>
<th>Material</th>
<th>Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>U</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>11 ga.</td>
<td>1 1/2&quot; (.01&quot;)</td>
<td>2008</td>
<td>U</td>
<td>85</td>
<td>217</td>
</tr>
<tr>
<td></td>
<td>13 ga.</td>
<td>1 1/2&quot; (.01&quot;)</td>
<td>336</td>
<td>C</td>
<td>400</td>
<td>225</td>
</tr>
<tr>
<td></td>
<td>11 ga.</td>
<td>2&quot; (.01&quot;)</td>
<td>3035</td>
<td>D</td>
<td>49</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>13 ga.</td>
<td>2&quot; (.01&quot;)</td>
<td>1228</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11 ga.</td>
<td>2&quot; (.0625&quot;)</td>
<td>2910</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>13 ga.</td>
<td>2&quot; (.0625&quot;)</td>
<td>1213</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11/2&quot; or 2&quot; (.0625&quot;)</td>
<td>2910</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2&quot; (.01&quot;)</td>
<td>1213</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Perf-O Grip: To order standard Perf-O Grip Grating use part number “Pxxxxx”.
* Perf-O Grip 2: To order New Perf-O Grip 2™ Grating use part number “Axxxxx”. End margins are standard on New Perf-O Grip 2™. Longer lengths of 20’ and 24’ are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.

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**Traction Tread Plank with LH Pattern**

**Material Options:**
- Hot rolled, pickled and oiled carbon steel: 11 gauge and 13 gauge
- Mill-quantized steel: 11 gauge and 13 gauge
- Aluminum alloy 5052-H32: .125” thick

**Plank Dimensions:**
- 6’ wide (nominal)
- 12” and 144” lengths (nominal)
- 11/2” minimum of 2” channel height

---

**Material Options:**
- Hot rolled, pickled and oiled carbon steel: 11 gauge and 13 gauge
- Mill-quantized steel: 11 gauge and 13 gauge
- Aluminum alloy 5052-H32: .125” thick

**Plank Dimensions:**
- 6’ wide (nominal)
- 12” and 144” lengths (nominal)
- 11/2” minimum of 2” channel height

---

**Perf-O-Grip Perf-O-Grip 2**

**Rows of Buttons**

<table>
<thead>
<tr>
<th>Product</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” Wide</td>
<td>11 3/4” (304mm)</td>
<td>15 3/4” (404mm)</td>
<td>16” (406mm)</td>
</tr>
<tr>
<td>10” Wide</td>
<td>9 3/4” (242mm)</td>
<td>7 3/4” (203mm)</td>
<td>12” (305mm)</td>
</tr>
<tr>
<td>8” Wide</td>
<td>6 3/4” (174mm)</td>
<td>15 3/4” (404mm)</td>
<td>8” (203mm)</td>
</tr>
</tbody>
</table>
Traction Tread Ladder Rungs

Traction Tread™ Ladder Rungs feature a hand-over-hand friendly surface with moderate slip resistance. Products are sold in efficient lengths, well suited to fabricators of ladders. Vehicle applications are extensive.

2-Hole Ladder Rung

- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.2 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.5 lbs./ft.)
- 1¼" wide x 1½" high x 48" or 60" long

3-Hole Ladder Rung

- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.3 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.5 lbs./ft.)
- 1⅛" wide x 1⅛" high x 48" or 60" long

4-Hole Ladder Rung

- Hot rolled, pickled and oiled carbon steel: 13 gauge (1.5 lbs./ft.)
- Aluminum alloy 5052-H32: .125" (0.7 lbs./ft.)
- 2¾" wide x 1½" high x 48" or 60" long

Specifications shown are for standard products. Consult Cooper B-Line for other options.

How To Read Load Tables

To select the proper size of Perf-O-Grip Grating, determine load, clear span and deflection requirements by first determining your loading requirements.

Example — Clear span of 4'-0" with a concentrated load requirement of 600 lbs. at 0.25" maximum deflection, for a 10'-0" wide plank. Refer to the 5-Hole Plank (10" Width), then locate the Clear Span subheading for 4'-0" to find the first occurrence of 600 lbs. (or greater) Concentrated Load (C). In this example, the 13 gauge, 2" depth product (part number PS2013) carries a load of 648 lbs. with a 0.10" deflection.

While this is one product which meets the minimum requirements, other options might be selected to carry greater loads. For economical selection, choose the greatest width that will support the load consistent with job requirements and choose deeper channels rather than heavier steel gauges.

How Load Tables Were Prepared

The values shown in the following tables are based on actual load tests. The tables have been prepared in accordance with the provisions of the AISI Specification for the Design of Cold-Formed Steel Structural Members, 1986 edition.

These load table values are based on consideration of side channel flexure only and do not consider grating surface performance. Side channel flexure occur when the channels at midspan of the plank deflect relative to support points. To verify the performance of the side channels, samples were loaded with concentrated and uniform loads at different spans (See Figures 1 and 2). To approximate the most severe condition, there were no attachments between the channels and the supports.

Deflection values indicated in the tables are the midspan side channel deflection produced when the allowable uniform or allowable concentrated load is placed at midspan. Load data is based on yield strength of 33,000 psi for steel, 27,000 psi for aluminum, 35,000 psi for Type 304 stainless steel, and 30,000 psi for Type 316-2B stainless steel.

Load/Deflection Conversion Formulas

In the elastic range, deflection is proportional to the applied load for both uniform and concentrated loads. This relationship can be used to determine the deflection that any load which is less than the allowable load will produce, as shown in Example A. If desired, the load which will produce a specific deflection can also be determined if the load is in the elastic range as illustrated in Example B.

Example A

What deflection will a 300 lb. midspan concentrated load produce on a plank spanning 5'-0" (part number P130011 - page 11)?

\[
C = 1517 \text{ lbs.} \quad \text{D} = 0.09''
\]

\[
\text{D @ 300 lbs.} = 0.09'' \times (300 \text{ lbs.} + 1517 \text{ lbs.}) = 0.02''
\]

Example B

If a plank (part number P130011 - page 11) is spanning 7'-0", what midspan concentrated load will produce a .25" deflection?

\[
C = 598 \text{ lbs.} \quad \text{D} = 0.27''
\]

\[
\text{C @ .25"} = 598 \text{ lbs.} \times (0.25'' ÷ 0.27'') = 554 \text{ lbs.}
\]

Special Note On Planks

As width increases, grating surface performance becomes more critical. Thus, for Perf-O-Grip product widths greater than 12", use of the grating surface splice kit is recommended to mechanically join butt ends of plank sections.

Figure 1. Concentrated Load

Figure 2. Uniform Load

Specifications shown are for standard products. Consult Cooper B-Line for other options.
Notes to architect

1. Perf-O-Grip and Perf-O-Grip 2 Gratings are intended for general purpose use in plants and process facilities by industry, commerce, and public utilities, and on air, water, and surface, for both mobile and stationary equipment.

2. Perf-O-Grip and Perf-O-Grip 2 Stair Treads are intended for utility stairs and fire escapes in commercial, public and private buildings where local code permits. They are not intended for staircases used regularly by the general public where flat closed surfaces are desired. For this type of application, see Traction Tread stair treads and sheets.

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, 1 1/2” 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 Perf-O-Grip and Perf-O-Grip 2 Gratings and Stair Treads, as specified and shown on the drawings.

1.2 Qualifications
Perf-O-Grip and Perf-O-Grip 2 Gratings, Stair Tread 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 Grating Materials
a. Type: (Perf-O-Grip and Perf-O-Grip 2 Gratings) (Perf-O-Grip Walkways)

b. Metal and Finish:
Standard (mill-galvanized steel, ASTM A924) (stainless steel, alloy Types 304-2B/D) (aluminum, alloy 5052 H32); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (stainless steel, alloy Type 316-2B/D)
c. Metal gauge: (13-ga. steel) (11-ga. steel) (16-ga. stainless steel) (14-ga. stainless steel) (.125” aluminum)
d. Section width: (5”) (7”) (10”) (12”) (18”) (24”) (30”) plank; (24”) (30”) (36”) walkway

2.2 Stair Tread Materials
a. Type: (Perf-O-Grip and Perf-O-Grip 2 Stair Tread)

b. Metal and Finish:
Standard (mill-galvanized steel, ASTM A924) (stainless steel, alloy Types 304-2B/D) (aluminum, alloy 5052 H32); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (stainless steel, alloy Type 316-2B/D)
c. Metal gauge: (13-ga. steel) (11-ga. steel) (16-ga. stainless steel) (14-ga. stainless steel) (.125” aluminum)
d. Tread Depth: Standard (10”); Special Order (5”) (7”) (12”)

e. Channel height: Standard (1 1/2”); Special Order (2”)
f. Span or Width of Staircase: (24”) (30”) (36”)

2.3 Accessories
a. Bolt Seats: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
b. “J” Clip Attachment: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
c. Midsupport Clip: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM-A569) (aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
Part 3: Execution

3.1 Condition of surfaces
Prior to grating installation, contractor shall inspect support 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 grating so defects can be remedied before grating is applied.

3.2 Grating Installation
Install grating in accordance with manufacturer’s recommendations and shop drawings. Position grating sections flat and square with ends bearing min. 1/2” on supporting structure. Keep grating 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. 1/8” 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 Grating Attachment
Attach grating to supports without warp or deflection as follows:

a. Single plank application: Secure plank ends to supporting members at every point of contact. Use (2) Perf-O-Grip Bolt Seats or “2” Clip Assemblies at each end or secure both side channels at each end to supports by fusion welding with 1/8” fillet welds, 1” long.

b. Multiple plank application: Secure perimeter plank to supporting members at every point of contact and intermediate grating sections with at least (1) attachment each end of plank, on alternate sides. For added rigidity when span exceeds (6’-0”) (8’-0”), attach side channels of adjacent plank together (at mid-point of span) using mid support clip.

c. Welded attachment: Secure side channels to supports by fusion welding with 1/8” fillet welds, 1” long. Weld adjacent planks together with 1/8” fillet welds, 1” long; 24” o.c. staggered top and bottom.

d. Clip attachment: Secure intermediate planks to supports using Bolt Seat and “2” Clip Assembly. Use Bolt Seat with 1/8” carriage bolts and nuts for securing perimeter planks. Fasten adjacent side rails together with mid support clip or 1/8” machine bolts and nuts through locally drilled holes.

3.4 Stair Tread Installation
Install Perf-O-Grip and Perf-O-Grip 2 Stair Treads as shown in the drawings. Fasten treads to stair stringers with 9/16” x 1” machine bolts and nuts.

Perf-O-Grip Specifications

- Surface Splice Kit: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A569); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A569; stainless steel, alloy Types 304-2B/D; stainless steel, alloy Type 316-2B/D)
- Walkway Splice Kit: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A569; stainless steel, alloy Types 304-2B/D; stainless steel, alloy Type 316-2B/D)
- Universal Handrail Bracket for Walkways: Eliminates unnecessary substructure for supporting handrail posts.

How To Order

Technical Assistance
For technical assistance not found in this catalog, contact your local Perf-O-Grip and Perf-O-Grip 2 Gratings Distributor, or contact Cooper B-Line Technical Service Department at 1-800-851-9341 (phone) or 1-818-357-3605 (fax).

Fabrication Service
On large jobs, Cooper B-Line estimates, quotes, details and fabricates to your requirement. After receipt of order, layout drawings are prepared for easy installation.

Notice: We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claims shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Perf-O-Grip® General Information

Every year industrial accidents — falling, tripping over debris, slipping on wet or greasy surfaces — cost millions of dollars in lost man-hours and production. Insurance costs often are reduced when accident rates decline. Perf-O-Grip Grating and Traction Tread Flooring help cut accident rates by providing safer walking-working surfaces.

Perf-O-Grip Grating’s unique surface of large debossed holes and perforated buttons provides maximum slip protection and performance under practically all conditions and in every direction. The large debossed holes allow fluids, mud, chips and other accident-causing debris to drain away. With 5 inch high side channels, Perf-O-Grip Walkways meet OSHA requirements for toeboards on elevated structures. Canadian OH & S compliant designs are also available.

In addition to providing safety, the resilient surface of Perf-O-Grip Grating cushions the impact of footfalls thereby lessening worker fatigue and increasing efficiency. Perf-O-Grip Grating is your safety buy. It cuts costs and helps improve plant productivity.

New Offering
Cooper B-Line now offers a new, second style of Perf-O-Grip Grating. Perf-O-Grip 2 Grating features 1 15/16” on center hole spacing (compared to 2” on the original style). In addition, Perf-O-Grip 2 Grating can be produced with safety end margins on 2-1/2” (5” wide) through 6 hole (12” wide) plank and without end margins on 10-1/2” (18” wide) through 16-hole (30” wide) plank. The original Perf-O-Grip is still available in 2-hole (5” wide) through 16-hole (30” wide) plank. This expanded offering gives Cooper B-Line a universally accepted addition to its premier safety grating product group.

Safe Surface
Grips soles securely — in all directions. Non-slip Perf-O-Grip Grating surfaces are ideal for inside or outside locations where mud, ice, snow, oil and detergents can create hazardous walking conditions. Grips soles securely — in all directions. Non-slip Perf-O-Grip Grating cushions the impact of footfalls thereby lessening worker fatigue and increasing efficiency. Perf-O-Grip Grating is your safety buy. It cuts costs and helps improve plant productivity.

Economical To Install and Use
In addition to low material cost and nominal erection cost, Perf-O-Grip Grating also features long-lasting, rust-resistant materials and finishes. Standard mill-galvanized finish resists corrosion to provide lasting surfaces. High-strength aluminum, Type 316-2B and Type 304-2B stainless steels are available to provide maximum corrosion resistance. Plain unpainted steel (HRP&O) is available for those installations requiring paint.

Lightweight but strong panels permit substantial reduction in structural steel requirements.
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, statics 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, 1/16" minimum bearing surface, free of burns, bridging, welds or other irregularities.
5. Random cut ends and diagonal or circular cut exposed edges should be barred 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. Bolts 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: General
2.1 Flooring Materials
a. Type: Traction Tread Flooring
b. Metal and Finish: (carbon steel — hot rolled, pickled and oiled, ASTM A568) (1/8" aluminum, alloy 5052-H32)
   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 A568) (11 and 13 gauge mill-galvanized steel — ASTM A924) (.125" aluminum, alloy 5052-H32)
   d. Width: (111/16") (15/16") (21/4")
   e. Length: (48") (96")

Part 3: Execution
3.1 Condition of surfaces
Prior to traction tread installation, the 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 surfaces only. They require adequate support and hold down. Position traction tread planks flat and square with ends bearing min. 1/16" on supporting structure. Keep traction tread sections at least 1/2' 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. 1/8" 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.
Perf-O Grip® Grating & Traction Tread™ Flooring
For Safe Walking-Working Surfaces

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- Cable Tray Systems
- Electrical Enclosures
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- Anchors

Questions, Comments, Suggestions?
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