Perf-O Grip® Grating & Traction Tread™ Flooring
For Safe Walking-Working Surfaces

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Cable Tray Systems
Electrical Enclosures
Electronic Enclosures
Pipe Hanger & Support Systems
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Cooper B-Line
509 West Monroe Street
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Phone: 800-851-9341
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www.cooperbline.com

Manufacturing
Cooper B-Line
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Pinckneyville, IL 62274
Phone: 618-357-5353
Fax: 618-357-3605

Questions, Comments, Suggestions?
with Cooper B-Line
Voice Of the Customer...Actively Listening
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SYSTEMS THAT MAKE SENSE

Cooper Industries, Ltd.
600 Travis, Ste. 5800
Houston, TX 77002-1001
Phone: 713-209-8400
www.cooperindustries.com
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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 1/8" 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) (1/8" aluminum alloy, type 5052-H32)
d. Sheet Size: (36" x 120")

2.2 Plank Grating
a. Type: Traction Tread Plank

2.3 Ladder Rungs
a. Type: Traction Tread Ladder Rungs
b. Metal and Finish: (13 gauge mill-galvanized steel, ASTM A924) (13 gauge carbon steel — hot rolled, pickled and oiled, ASTM A569)
c. Metal gauge: (1/8" aluminum alloy, type 5052-H32) (14 gauge stainless steel, alloy types 304/304L/316/316L)
d. Width: (1 1/4") (1 5/8") (2 1/4")
e. 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 or 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 1/2" 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. 1/16" 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 -1/16" x 1" machine bolts and nuts.
**Perf-O-Grip Specifications**

d. Surface Splice Kit: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A669; aluminum, alloy 5052-H32); (stainless steel, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)
e. Walkway Splice Kit: Standard (mill-galvanized steel, ASTM A824); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A669; stainless, alloy Types 304-2B/D) (stainless steel, alloy Type 316-2B/D)

**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 1-618-357-3605 (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.cooperbline.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® General Information**

How To Order

**Technical Assistance**

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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

e. Channel height: Safety Grating (1 1/2”); Walkway Grating - OSHA compliant; Canadian OH & S Compliant
f. Standard lengths: (10’-0”) (12’-0”) (20’-0”) (24’-0”)

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)
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.)
- 1 1/4" wide x 1 1/8" 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.)
- 1 5/8" wide x 1 1/8" 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.)
- 2 1/4" wide x 1 1/8" 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.

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)?

\[
\begin{align*}
C &= 1517\text{ lbs.} \quad D = 0.09'' \\
D@300\text{ lbs.} &= 0.09'' \times \left(300\text{ lbs.} + 1517\text{ lbs.}\right) = 0.02''
\end{align*}
\]

Example B

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

\[
\begin{align*}
C &= 598\text{ lbs.} \quad D = 0.27'' \\
C@.25'' &= 598\text{ lbs.} \times \left(0.25'' ÷ 0.27''\right) = 554\text{ lbs.}
\end{align*}
\]

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
### Perf-O Grip® Grating Load Tables

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

**Plank Selection/Design Tables**

<table>
<thead>
<tr>
<th>Allowable Loads and Deflections</th>
<th>U=Uniform Load (lb./ft.)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Channel Weight Span</strong></td>
<td><strong>Material Depth</strong></td>
<td><strong>Gauge</strong></td>
<td><strong>lb./lin.</strong></td>
</tr>
<tr>
<td><strong>1 1/2”</strong></td>
<td><strong>895</strong></td>
<td>8</td>
<td>895</td>
</tr>
<tr>
<td><strong>2”</strong></td>
<td><strong>1308</strong></td>
<td>8</td>
<td>1308</td>
</tr>
<tr>
<td><strong>2 1/2”</strong></td>
<td><strong>1946</strong></td>
<td>8</td>
<td>1946</td>
</tr>
<tr>
<td><strong>3”</strong></td>
<td><strong>2684</strong></td>
<td>8</td>
<td>2684</td>
</tr>
</tbody>
</table>

* For Perf-O Grip. To order standard Perf-O Grip Grating see part number "Pxxxxx".

### Traction Tread™

**Traction Tread Planks**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plank Dimensions:</strong></td>
<td>6” wide (nominal)</td>
<td>120” and 144” lengths (nominal)</td>
<td>11/2” minimum of 2” channel height</td>
</tr>
</tbody>
</table>

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

- **Rows of Buttons**
  - 12” Wide: 17 15/32” (46mm)
  - 10” Wide: 10 9/16” (26mm)
  - 8” Wide: 8 9/32” (22mm)
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 also appropriate for commercial applications where pedestrian traffic is a consideration, perfectly suited for ADA-compliant requirements. 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™ Perf-O Grip® Grating Load Tables

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth in. (mm)</th>
<th>Weight Per Ft.</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2” (38.1)</td>
<td>0.125” (50.8)</td>
<td>(2.2)</td>
<td></td>
</tr>
<tr>
<td>14 ga. U</td>
<td>1965</td>
<td>1473</td>
<td></td>
</tr>
<tr>
<td>11 ga. (50.8)</td>
<td>1509</td>
<td>1473</td>
<td></td>
</tr>
<tr>
<td>11/2” (38.1)</td>
<td>0.125” (50.8)</td>
<td>(2.2)</td>
<td></td>
</tr>
<tr>
<td>14 ga. (50.8)</td>
<td>1509</td>
<td>1473</td>
<td></td>
</tr>
<tr>
<td>11 ga. (50.8)</td>
<td>1509</td>
<td>1473</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>14 ga. (50.8)</td>
<td>1509</td>
<td>1473</td>
<td></td>
</tr>
<tr>
<td>11 ga. (50.8)</td>
<td>1509</td>
<td>1473</td>
<td></td>
</tr>
</tbody>
</table>

Perf-O Grip — 3-Hole Plank — 7” Width

Perf-O Grip and Perf-O Grip 2™. Consult factory.

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.

Perf-O Grip — 3-Hole Plank — 7” Width

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Perf-O Grip — 3-Hole Plank — 7” Width

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Perf-O Grip — 3-Hole Plank — 7” Width

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Perf-O Grip — 3-Hole Plank — 7” Width

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

**Stainless U**

<table>
<thead>
<tr>
<th>Gauge in. ft.</th>
<th>Steel</th>
<th>Catalog</th>
<th>Material Depth lb./lin.</th>
<th>Plank Selection/Design Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125&quot; (50.8) (2.7)</td>
<td>13 ga.</td>
<td>P520125*</td>
<td>7/8&quot; ± 1/8&quot;</td>
<td>Perf-O Grip 2</td>
</tr>
<tr>
<td>0.125&quot; (50.8) (4.7)</td>
<td>14 ga.</td>
<td>P52014S*</td>
<td>3/16&quot; ± 1/16&quot;</td>
<td>Perf-O Grip 2</td>
</tr>
</tbody>
</table>

**Steel**

<table>
<thead>
<tr>
<th>Gauge in. ft.</th>
<th>Steel</th>
<th>Catalog</th>
<th>Material Depth lb./lin.</th>
<th>Plank Selection/Design Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.375&quot; (9.5) (6.4)</td>
<td>11 ga.</td>
<td>P52011*</td>
<td>9&quot; ± 1/8&quot;</td>
<td>Perf-O Grip 2</td>
</tr>
<tr>
<td>0.250&quot; (6.4) (4.7)</td>
<td>12 ga.</td>
<td>P51511*</td>
<td>7/16&quot; ± 1/32&quot;</td>
<td>Perf-O Grip 2</td>
</tr>
</tbody>
</table>

**Alum.**

<table>
<thead>
<tr>
<th>Gauge in. ft.</th>
<th>Steel</th>
<th>Catalog</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.250&quot; (6.4) (4.7)</td>
<td>14 ga.</td>
<td>P51513*</td>
</tr>
</tbody>
</table>

### Perf-O Grip Grating Load Tables

**Uniform Load (lb./ft.²) U**

<table>
<thead>
<tr>
<th>Gauge in. ft.</th>
<th>Steel</th>
<th>Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.375&quot; (9.5) (6.4)</td>
<td>11 ga.</td>
<td>Table 1</td>
</tr>
<tr>
<td>0.250&quot; (6.4) (4.7)</td>
<td>12 ga.</td>
<td>Table 2</td>
</tr>
</tbody>
</table>

**Allowable Loads and Deflections:**

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

- **Perf-O Grip:** 2-hole through 6-hole plank only (≥ 9" through 12" widths). Standards 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 2™:** To order New Perf-O Grip 2™ Grating use part number “Axxxxx”. End margins are standard on new Perf-O Grip 2™ Grating. To order standard Perf-O Grip Grating use part number “Pxxxxx”.

**Perf-O-Grip Stair Treads**

<table>
<thead>
<tr>
<th>Product</th>
<th>Nominal Width &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-Hole Tread</td>
<td>5&quot; (127mm)</td>
<td>7/8&quot; (22mm)</td>
<td>1 3/4&quot; (44mm)</td>
<td>5/8&quot; (16mm)</td>
</tr>
<tr>
<td>3-Hole Tread</td>
<td>7&quot; (178mm)</td>
<td>7/8&quot; (22mm)</td>
<td>1 3/4&quot; (44mm)</td>
<td>5/8&quot; (16mm)</td>
</tr>
<tr>
<td>5-Hole Tread</td>
<td>10&quot; (254mm)</td>
<td>7/8&quot; (22mm)</td>
<td>1 3/4&quot; (44mm)</td>
<td>5/8&quot; (16mm)</td>
</tr>
<tr>
<td>6-Hole Tread</td>
<td>12&quot; (305mm)</td>
<td>7/8&quot; (22mm)</td>
<td>1 3/4&quot; (44mm)</td>
<td>5/8&quot; (16mm)</td>
</tr>
</tbody>
</table>

**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).
Splice Plate Kits

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.

Hardware included: ¾” x 1” carriage bolts, ½” 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: ½” x 1¼” hex bolts, ½”-13 hex nuts and 1/2” flat washers.

Walkway Splice Plate Kits

Material Depth lb./lin. ft. Catalog Number

<table>
<thead>
<tr>
<th>Material</th>
<th>Depth</th>
<th>Width</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alum. 2”</td>
<td>8.3</td>
<td>30”</td>
<td>A620125*</td>
</tr>
<tr>
<td>C 0.03</td>
<td>.06</td>
<td>10”</td>
<td>A61511</td>
</tr>
<tr>
<td>D 0.02</td>
<td>.04</td>
<td>12”</td>
<td>A62011</td>
</tr>
<tr>
<td>Alum. 1 1/2”</td>
<td>6.2</td>
<td>30”</td>
<td>A63011*</td>
</tr>
<tr>
<td>C 0.03</td>
<td>.07</td>
<td>10”</td>
<td>A61512</td>
</tr>
<tr>
<td>D 0.02</td>
<td>.04</td>
<td>12”</td>
<td>A62012</td>
</tr>
<tr>
<td>Alum. 1”</td>
<td>4.6</td>
<td>30”</td>
<td>A62013*</td>
</tr>
<tr>
<td>C 0.03</td>
<td>.07</td>
<td>10”</td>
<td>A61513</td>
</tr>
<tr>
<td>D 0.02</td>
<td>.04</td>
<td>12”</td>
<td>A62013</td>
</tr>
</tbody>
</table>

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

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.

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

Hardware included

- POG-WS-30 for 30” wide plank includes eight (8) each of POG-WS-30.

- Each Kit includes: Two (2) splice plates and thirty-two (32) each of the following hardware: ½” x 1¼” hex bolts, ½”-13 hex nuts and 1/2” flat washers.

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

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Hardware included

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

Hardware included

- POG-WS-30 for 30” wide plank includes eight (8) each of POG-WS-30.

- Each Kit includes: Two (2) splice plates and thirty-two (32) each of the following hardware: ½” x 1¼” hex bolts, ½”-13 hex nuts and 1/2” flat washers.
Perf-O Grip® Grating Load Tables

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

Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Material</th>
<th>Depth in.</th>
<th>Gauge</th>
<th>Catalog Number</th>
<th>2'-0&quot; U</th>
<th>2'-6&quot;</th>
<th>3'-0&quot;</th>
<th>3'-6&quot;</th>
<th>4'-0&quot;</th>
<th>4'-6&quot;</th>
<th>5'-0&quot;</th>
<th>5'-6&quot;</th>
<th>6'-0&quot;</th>
<th>6'-6&quot;</th>
<th>7'-0&quot;</th>
<th>7'-6&quot;</th>
<th>8'-0&quot;</th>
<th>9'-0&quot;</th>
<th>10'-0&quot;</th>
<th>11'-0&quot;</th>
<th>12'-0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 13 ga.</td>
<td>1 1/2&quot;</td>
<td>5.7</td>
<td>P101513</td>
<td>714</td>
<td>457</td>
<td>323</td>
<td>179</td>
<td>140</td>
<td>116</td>
<td>95</td>
<td>82</td>
<td>69</td>
<td>60</td>
<td>52</td>
<td>45</td>
<td>40</td>
<td>36</td>
<td>29</td>
<td>24</td>
<td>21</td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td>1 1/2&quot;</td>
<td>6.8</td>
<td>P101512</td>
<td>1072</td>
<td>666</td>
<td>476</td>
<td>350</td>
<td>286</td>
<td>212</td>
<td>173</td>
<td>142</td>
<td>121</td>
<td>103</td>
<td>87</td>
<td>78</td>
<td>68</td>
<td>59</td>
<td>52</td>
<td>45</td>
<td>39</td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td>2&quot;</td>
<td>7.1</td>
<td>P102011</td>
<td>1205</td>
<td>820</td>
<td>535</td>
<td>408</td>
<td>348</td>
<td>280</td>
<td>232</td>
<td>196</td>
<td>165</td>
<td>142</td>
<td>121</td>
<td>104</td>
<td>91</td>
<td>80</td>
<td>66</td>
<td>58</td>
<td>52</td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td>3&quot;</td>
<td>7.9</td>
<td>P103011</td>
<td>2672</td>
<td>1712</td>
<td>1189</td>
<td>973</td>
<td>800</td>
<td>660</td>
<td>550</td>
<td>458</td>
<td>396</td>
<td>353</td>
<td>318</td>
<td>289</td>
<td>261</td>
<td>234</td>
<td>213</td>
<td>194</td>
<td>177</td>
</tr>
<tr>
<td>Alum.</td>
<td>2&quot;</td>
<td>5/16&quot;</td>
<td>P102025</td>
<td>892</td>
<td>535</td>
<td>411</td>
<td>324</td>
<td>264</td>
<td>216</td>
<td>195</td>
<td>158</td>
<td>131</td>
<td>110</td>
<td>94</td>
<td>80</td>
<td>69</td>
<td>59</td>
<td>50</td>
<td>40</td>
<td>33</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.

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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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

**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.

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Channel Weight Span</th>
<th>U=Uniform Load (lb./ft.)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>2'-0&quot;</td>
<td>1094</td>
<td>2092</td>
<td>.03</td>
</tr>
<tr>
<td></td>
<td>2'-6&quot;</td>
<td>700</td>
<td>1674</td>
<td>.05</td>
</tr>
<tr>
<td></td>
<td>3'-0&quot;</td>
<td>486</td>
<td>1395</td>
<td>.06</td>
</tr>
<tr>
<td></td>
<td>3'-6&quot;</td>
<td>357</td>
<td>1196</td>
<td>.09</td>
</tr>
<tr>
<td></td>
<td>4'-0&quot;</td>
<td>273</td>
<td>1046</td>
<td>.12</td>
</tr>
<tr>
<td></td>
<td>4'-6&quot;</td>
<td>216</td>
<td>930</td>
<td>.15</td>
</tr>
<tr>
<td></td>
<td>5'-0&quot;</td>
<td>175</td>
<td>837</td>
<td>.18</td>
</tr>
<tr>
<td></td>
<td>5'-6&quot;</td>
<td>145</td>
<td>761</td>
<td>.22</td>
</tr>
<tr>
<td></td>
<td>6'-0&quot;</td>
<td>123</td>
<td>697</td>
<td>.26</td>
</tr>
<tr>
<td></td>
<td>6'-6&quot;</td>
<td>105</td>
<td>644</td>
<td>.31</td>
</tr>
<tr>
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<td>7'-0&quot;</td>
<td>91</td>
<td>598</td>
<td>.36</td>
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<td>7'-6&quot;</td>
<td>79</td>
<td>548</td>
<td>.41</td>
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<td></td>
<td>8'-0&quot;</td>
<td>70</td>
<td>504</td>
<td>.47</td>
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<td>9'-0&quot;</td>
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<td>459</td>
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<td>45</td>
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</tr>
<tr>
<td></td>
<td>11'-0&quot;</td>
<td>38</td>
<td>393</td>
<td>.57</td>
</tr>
<tr>
<td></td>
<td>12'-0&quot;</td>
<td>33</td>
<td>358</td>
<td>.60</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Material</th>
<th>Channel Depth in. (mm)</th>
<th>Weight lb./lin. ft. (kg/m)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>2&quot; (50.8)</td>
<td>.02</td>
<td>P132011</td>
</tr>
<tr>
<td></td>
<td>3&quot; (76.2)</td>
<td>.01</td>
<td>P132011</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 Gauge</th>
<th>Channel Weight</th>
<th>Span</th>
<th>Catalog Number</th>
<th>P162011</th>
<th>P163011</th>
<th>P164011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>2” (12.7)</td>
<td>11.8</td>
<td>5751</td>
<td>956</td>
<td>1413</td>
<td>2240</td>
</tr>
<tr>
<td></td>
<td>3” (19.0)</td>
<td>5”</td>
<td>3868</td>
<td>8638</td>
<td>2240</td>
<td>956</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**

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Weight</th>
<th>Span</th>
<th>Catalog Number</th>
<th>P135011W</th>
<th>P130011W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>5” (127.0)</td>
<td>13.6</td>
<td>5748</td>
<td>9544</td>
<td>3984</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/ Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight lb./lin. ft.</th>
<th>Catalog Number</th>
<th>Channel Depth (mm) (kg/m) Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>2” (50.8)</td>
<td>11.8</td>
<td>P162011</td>
<td>18.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3” (76.2)</td>
<td>12.3</td>
<td>P163011</td>
<td>18.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4” (101.6)</td>
<td>13.3</td>
<td>P164011</td>
<td>20.2</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**

<table>
<thead>
<tr>
<th>Material/ Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight lb./lin. ft.</th>
<th>Catalog Number</th>
<th>Channel Depth (mm) (kg/m) Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>5” (127.0)</td>
<td>11.8</td>
<td>P135011W</td>
<td>17.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6” (152.4)</td>
<td>12.6</td>
<td>P165011W</td>
<td>20.2</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.

---

### 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/ Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight lb./lin. ft.</th>
<th>Catalog Number</th>
<th>Channel Depth (mm) (kg/m) Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>2” (50.8)</td>
<td>11.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P162011</td>
<td>17.5</td>
</tr>
<tr>
<td></td>
<td>3” (76.2)</td>
<td>12.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P163011</td>
<td>17.5</td>
</tr>
<tr>
<td></td>
<td>4” (101.6)</td>
<td>13.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P164011</td>
<td>18.9</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)

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

<table>
<thead>
<tr>
<th>Material/ Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight lb./lin. ft.</th>
<th>Catalog Number</th>
<th>Channel Depth (mm) (kg/m) Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>5” (127.0)</td>
<td>11.8</td>
<td>P135011W</td>
<td>17.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6” (152.4)</td>
<td>12.6</td>
<td>P165011W</td>
<td>20.2</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.
**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.

---

### Perf-O Grip® Accessories

**Perf-O-Grip® Grating Load Tables**

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

<table>
<thead>
<tr>
<th>Bolt Seats</th>
<th>Allowable Loads and Deflections: U=Uniform Load (lb./ft.)  C= Concentrated Load (lb.)  D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Weight Span</td>
<td>Material Depth lb./lin. ft. Catalog Number</td>
</tr>
<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&quot; 10'-0&quot; 11'-0&quot; 12'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>1094</td>
</tr>
<tr>
<td>C</td>
<td>2092</td>
</tr>
<tr>
<td>D</td>
<td>.03</td>
</tr>
</tbody>
</table>

**P-Bolt Seat (standard)**

![Image of P-Bolt Seat](image-url)

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**

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth H. in.</th>
<th>Weight lb./lin. ft.</th>
<th>Catalog Number</th>
<th>Uniform Load (lb./ft.)</th>
<th>Concentrated Load (lb.)</th>
<th>Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel 11 ga.</td>
<td>2&quot; (50.8)</td>
<td>9.9 (0.9)</td>
<td>P132011</td>
<td>1094</td>
<td>700</td>
<td>486</td>
</tr>
<tr>
<td></td>
<td>3&quot; (76.2)</td>
<td>9.8 (0.8)</td>
<td>P132011</td>
<td>1094</td>
<td>700</td>
<td>486</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 — 10-Hole Plank — 18” Width

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

<table>
<thead>
<tr>
<th>Channel Weight</th>
<th>Material Depth</th>
<th>Gauge in.</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span</td>
<td>lb./lin.</td>
<td>(mm)</td>
<td>Number</td>
</tr>
<tr>
<td>2'-0&quot;</td>
<td>2'-6&quot;</td>
<td>3'-0&quot;</td>
<td>3'-6&quot;</td>
</tr>
<tr>
<td>Steel 13 ga.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/2&quot;</td>
<td>5.7</td>
<td>(38.1)</td>
<td>P101513</td>
</tr>
<tr>
<td>U</td>
<td>714</td>
<td>457</td>
<td>233</td>
</tr>
<tr>
<td>D</td>
<td>.03</td>
<td>.06</td>
<td>.09</td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/2&quot;</td>
<td>6.0</td>
<td>(38.1)</td>
<td>P102013</td>
</tr>
<tr>
<td>U</td>
<td>1072</td>
<td>686</td>
<td>476</td>
</tr>
<tr>
<td>D</td>
<td>.02</td>
<td>.04</td>
<td>.06</td>
</tr>
<tr>
<td>Steel 13 ga.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot;</td>
<td>6.8</td>
<td>(50.8)</td>
<td>P101511</td>
</tr>
<tr>
<td>U</td>
<td>1452</td>
<td>1162</td>
<td>968</td>
</tr>
<tr>
<td>D</td>
<td>.03</td>
<td>.05</td>
<td>.07</td>
</tr>
<tr>
<td>Steel 11 ga.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot;</td>
<td>8.8</td>
<td>(50.8)</td>
<td>P102011</td>
</tr>
<tr>
<td>U</td>
<td>2679</td>
<td>2112</td>
<td>1169</td>
</tr>
<tr>
<td>D</td>
<td>.02</td>
<td>.04</td>
<td>.06</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 factor.

### 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**

### 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 16” 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: 3/8” x 1” carriage bolts, 3/8” flat washers and bolt seats.

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**Walkway Splice Plates 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 11/4” hex bolts, 1/2”-13 hex nuts and 2/5” flat washers.

---

### Perf-O Grip® Grating Load Tables

#### Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Material Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight (lb. per ft.)</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steel</strong></td>
<td>1/4” (3.8)</td>
<td>4.6</td>
<td>P601011</td>
</tr>
<tr>
<td>2” (0.8)</td>
<td>7.0</td>
<td>P602101</td>
<td></td>
</tr>
<tr>
<td>5/8” (3.5)</td>
<td>10.5</td>
<td>P605101</td>
<td></td>
</tr>
<tr>
<td>3” (0.8)</td>
<td>15.0</td>
<td>P603101</td>
<td></td>
</tr>
<tr>
<td>4” (1.0)</td>
<td>19.5</td>
<td>P604101</td>
<td></td>
</tr>
<tr>
<td>5” (1.2)</td>
<td>24.0</td>
<td>P605101</td>
<td></td>
</tr>
<tr>
<td><strong>Stainless</strong></td>
<td>1/4” (3.8)</td>
<td>4.6</td>
<td>A601011</td>
</tr>
<tr>
<td>2” (0.8)</td>
<td>7.0</td>
<td>A602101</td>
<td></td>
</tr>
<tr>
<td>5/8” (3.5)</td>
<td>10.5</td>
<td>A605101</td>
<td></td>
</tr>
<tr>
<td>3” (0.8)</td>
<td>15.0</td>
<td>A603101</td>
<td></td>
</tr>
<tr>
<td>4” (1.0)</td>
<td>19.5</td>
<td>A604101</td>
<td></td>
</tr>
<tr>
<td>5” (1.2)</td>
<td>24.0</td>
<td>A605101</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™ Grating 2-hole through 6-hole Planks only (1” through 12" widths). Standard lengths are 10’-0” and 12’-0”.

Larger lengths of 20’-0” and 24’-0” are available on both Perf-O Grip and Perf-O Grip 2™. Consult factory.
Perf-O Grip — 5-Hole Plank — 10″ Width

### Allowable Loads and Deflections

<table>
<thead>
<tr>
<th>U=Uniform Load (lb./ft.²)</th>
<th>C= Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8&quot; ± 1/8&quot; (50.8) (2.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 ga.</td>
<td>1735 1110 771 567 463 354 280 226 187 158 134 115 101 88 70 57 47 39</td>
<td></td>
</tr>
<tr>
<td>14 ga.</td>
<td>1670 1336 1113 954 888 823 758 689 631 583 541 505 473 421 378 344 316</td>
<td></td>
</tr>
<tr>
<td>16 ga.</td>
<td>1505 1205 995 823 715 636 557 500 459 422 392 368 337 315 299 268 244</td>
<td></td>
</tr>
</tbody>
</table>

### Material Depth lb./lin.

- **Alum.** 2" 1.8 1.2 1.9 1.4 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.05 0.04
- **Steel** 2" 3.9 2.3 1.9 1.5 1.2 1.0 0.8 0.6 0.5 0.4 0.3 0.2 0.1 0.05 0.04
- **Steel** 11/2" 3.5 2.1 1.7 1.4 1.2 1.0 0.8 0.6 0.5 0.4 0.3 0.2 0.1 0.05 0.04

### 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.

- **Mill-galvanized steel:** 11 ga. and 13 ga.
- **Hot rolled, pickled and oiled carbon steel:** 11 ga. and 13 ga.

### 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 and Perf-O-Grip 2™. Consult factory.

- **6-Hole Tread** 12″ (305mm) 1115/16″ (303mm) 11/2″ (38mm) 3/4″ (19mm) 9″ (227mm)
- **5-Hole Tread** 10″ (254mm) 915/16″ (254mm) 11/2″ (38mm) 3/4″ (19mm) 7″ (178mm)
- **3-Hole Tread** 7″ (178mm) 615/16″ (176mm) 11/2″ (38mm) 3/4″ (19mm) 4″ (102mm)
- **2-Hole Tread** 5″ (127mm) 415/16″ (125mm) 11/2″ (38mm) 3/4″ (19mm) 2″ (51mm)

* 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 Planks only (0″ 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.
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 also appropriate for commercial applications where the manufacture of special and fabricated products, and is often used as a reconditioning material over existing surfaces that do not provide slip-resistance.

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.)
  - 0.11 gauge (5.0 lbs./sq, ft.)
  - 0.125” (1.6 lbs./sq, ft.)
  - 0.13 gauge (3.8 lbs./sq, ft.)

Sheet Size:
• Standard Pattern
• Star Pattern
• Square Pattern
• Rectangular Pattern
• OEM Pattern
• Drain Hole Pattern
• Non-Pierced Pattern

Plank Selection/Design Tables

Perf-O Grip® Grating Load Tables

Perf-O Grip 3-Hole Plank — 7” Width

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>Channel Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>1762 1410 1175 1032</td>
<td>270 240 208 176</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>1981 1269 883 650</td>
<td>105 92 81 69</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>2899 1978 1375 1012</td>
<td>261 216 201 160</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>857 764 690 637</td>
<td>255 232 214 196</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>1165 932 777 685</td>
<td>255 232 214 196</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>3188 2550 2125 1792</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>3301 2736 2272 1896</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>5806 3716 2581 1898</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>1509 1207 1006 862</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>1369 1096 913 777</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>1762 1410 1175 1032</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>2138 1491 1145 914</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>2899 1978 1375 1012</td>
<td>471 411 347 291</td>
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<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>3188 2550 2125 1792</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>3301 2736 2272 1896</td>
<td>471 411 347 291</td>
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<tr>
<td>1 1/2&quot;</td>
<td>1/8&quot;</td>
<td>3188 2550 2125 1792</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>3301 2736 2272 1896</td>
<td>471 411 347 291</td>
</tr>
<tr>
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<td>1/8&quot;</td>
<td>3188 2550 2125 1792</td>
<td>471 411 347 291</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3/32&quot;</td>
<td>3301 2736 2272 1896</td>
<td>471 411 347 291</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™ Grating.

* 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. 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Gauge</th>
<th>Channel Depth (in.)</th>
<th>Weight (lb./lin. ft.)</th>
<th>U=Uniform Load (lb./ft.)</th>
<th>C=Concentrated Load (lb.)</th>
<th>D=Deflection (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>11/2”</td>
<td>2.6</td>
<td>2008</td>
<td>1287</td>
<td>855</td>
<td>659</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2.8</td>
<td>336</td>
<td>610</td>
<td>555</td>
<td>481</td>
</tr>
<tr>
<td></td>
<td>3”</td>
<td>2.8</td>
<td>3035</td>
<td>1944</td>
<td>1352</td>
<td>957</td>
</tr>
<tr>
<td></td>
<td>4”</td>
<td>2.8</td>
<td>1213</td>
<td>1033</td>
<td>845</td>
<td>659</td>
</tr>
<tr>
<td></td>
<td>4 1/2”</td>
<td>2.8</td>
<td>2910</td>
<td>2049</td>
<td>1422</td>
<td>1046</td>
</tr>
<tr>
<td></td>
<td>5”</td>
<td>2.8</td>
<td>1334</td>
<td>1255</td>
<td>1046</td>
<td>896</td>
</tr>
<tr>
<td></td>
<td>6”</td>
<td>2.8</td>
<td>1569</td>
<td>1255</td>
<td>1046</td>
<td>896</td>
</tr>
<tr>
<td>Alum.</td>
<td>5/16”</td>
<td>1.3</td>
<td>2910</td>
<td>1863</td>
<td>1294</td>
<td>950</td>
</tr>
<tr>
<td></td>
<td>1/8”</td>
<td>2.1</td>
<td>2781</td>
<td>2549</td>
<td>1822</td>
<td>1546</td>
</tr>
<tr>
<td></td>
<td>1/4”</td>
<td>2.1</td>
<td>3014</td>
<td>2105</td>
<td>1422</td>
<td>1046</td>
</tr>
<tr>
<td>Stainless</td>
<td>5/32”</td>
<td>2.1</td>
<td>3014</td>
<td>1863</td>
<td>1546</td>
<td>1230</td>
</tr>
<tr>
<td>Steel</td>
<td>1/2”</td>
<td>2.1</td>
<td>3654</td>
<td>2300</td>
<td>1546</td>
<td>1230</td>
</tr>
</tbody>
</table>

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

### Traction Tread™ Planks

#### Traction Tread™ Plank with LH Pattern

- **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:**
  - 8" wide (nominal)
  - 120" and 144" lengths (nominal)
  - 11/2" minimum of 2" channel height

### Plank Selection/Design Tables

<table>
<thead>
<tr>
<th>Allowable Loads and Deflections: U=Uniform Load (lb./ft.²) C= Concentrated Load (lb.) D=Deflection (in.)</th>
<th>Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'-0&quot; to 2'-6&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>0.05</td>
<td>0.06</td>
</tr>
</tbody>
</table>

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

**Plank Dimensions:**
- 8" wide (nominal)
- 12" and 144" lengths (nominal)
- 11/2" minimum of 2" channel height
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.

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.

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 P133011 - page 11)?

\[
\begin{align*}
C &= 1517 \text{ lbs.} \\
D &= 0.09" \\
D @ 300 \text{ lbs.} &= 0.09" \times \frac{300 \text{ lbs.}}{1517 \text{ lbs.}} = 0.02 \text{ inches}
\end{align*}
\]

Example B

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

\[
\begin{align*}
C &= 598 \text{ lbs.} \\
D &= 0.27" \\
C @ .25" &= 598 \text{ lbs.} \times \frac{0.25"}{0.27"} = 554 \text{ lbs.}
\end{align*}
\]

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.

Specifications shown are for standard products. Consult Cooper B-Line for other options.
## Perf-O Grip® Applications

### Perf-O-Grip Specifications

#### 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**
- **Type:** (Perf-O-Grip and Perf-O-Grip 2 Gratings) (Perf-O-Grip Walkways)
- **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)
- **Metal gauge:** (13-ga. steel) (11-ga. steel) (16-ga. stainless steel) (14-ga. stainless steel) ( .125” aluminum)
- **Section width:** (5”) (7”) (10”) (12”) (18”) (24”) (30”) plank; (24”) (30”) (36”) walkway
- **Channel height:** Safety Grating (1 1/2”); Walkway Grating - OSHA compliant; Canadian OH & S Compliant
- **Standard lengths:** (10'-0”) (12'-0”) (20'-0”) (24'-0”)

**2.2 Stair Tread Materials**
- **Type:** (Perf-O-Grip and Perf-O-Grip 2 Stair Tread)
- **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)
- **Metal gauge:** (13-ga. steel) (11-ga. steel) (16-ga. stainless steel) (14-ga. stainless steel) ( .125” aluminum)
- **Tread Depth:** Standard (10”); Special Order (5”) (7”) (12”)
- **Channel height:** Standard (1 1/2”); Special Order (2”)
- **Span or Width of Staircase:** (24”) (30”) (36”)

**2.3 Accessories**
- **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)
- **“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)
- **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)
3.1 Condition of surfaces
Prior to grating installation, contractor shall inspect supports for correct size, layout and align 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
Insta grating in accordance with manufacturer’s recommendations and shop drawings. Position grating sections flat and square with ends bearing. 1½” from support structure. Keep grating sections at least 1¼” away from vertical steel sections and 1½” from concrete walls. Installation clearances are built into this product. Allow clearance at joints between sections of max. ½” at side channels and max. ⅞” at ends. When specified, band roll cut ends and diagonal or circular cut exposed edges with a min. ⅛” 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) Per-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 ⅛” 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 min support clip.
c. Welded attachment: Secure side channels to supports by fusion welding with ⅛” fillet welds, 1” long. Weld adjacent planks together with ⅛” fillet welds, 1” long, 24” c.c. staggered top and bottom.
d. Clip attachment: Secure intermediate planks to supports using Bolt Seat and “J” Clip Assembly. Use Bolt Seat with ⅛” carriage bolts and nuts for securing perimeter planks. Fasten adjacent side rails together with mid support clip or ⅛” 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 on the drawings. Fasten treads to stair stringers with ⅛” x 1½” machine bolts and nuts.

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 1-618-357-3605 (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.cooperbline.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 Specifications
- Surface Splice Kit: Standard (mill-galvanized steel, ASTM A924); Special order (carbon steel — hot rolled, pickled and oiled, ASTM A559) (aluminum, alloy 5052-H32); (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 A559) (aluminum, alloy 5052-H32); (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.

Part 3: Execution

Technical Assistance
Consulting service on your specific requirements.

Notice: Warranty manual contains extensive warranty information.

Perf-O-Grip® General Information
- The large deossed 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 toebands on elevated structures. Canadian OH & S compliant designs are also available.
- In addition to providing safety, the resilient surface of Perf-O-Grip cushions the impact of footsteps thereby lessening worker fatigue and increasing efficiency. Perf-O-Grip is an all-weather 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 1⅛”/” 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-hole (⅞” wide) through 6-hole (12” wide) plank and without end margins on its 10-hole (16” wide) through 16-hole (30” wide) plank. The original Perf-O-Grip is still available in 2-hole (12” 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.

Versatile In Application
A variety of standard widths and channel heights are available as well as numerous non-standard shapes and sizes to meet almost any requirement of strength, size, deflection, weight, finish, appearance and application.

Perf-O-Grip Grating combines safety and durability with ease of fabrication and versatility. One-piece construction — no welds or rivets to fail — minimizes need for field fabrication. Special shapes and forms can be constructed to suit unusual requirements.

All surfaces are accessible to brush or spray, making it simple and economical to apply finish coatings. Perf-O-Grip Grating may be hot dipped galvanized after fabrication, anodized, plated, plastic-coated or otherwise finished to suit job requirements. Standard Perf-O-Grip Plank is available in materials and sizes to meet most load/span requirements. May be used as is, or banded, cut, welded or notched to suit requirements.

Perf-O-Grip 2 Plank with its safety end margins is stocked in 5”, 7” 10” and 12” widths and in 10’-0” (120”) and 12’-0” (144”) lengths. Perf-O-Grip Plank is stocked in 18”, 24” and 30” widths, in 10’-0” (120”) and 12’-0” (144”) lengths. 20”-0” and 24”-0” lengths are available on certain products. Consult factory. Other lengths can be manufactured per order requirements. Standard metals are 11 gauge and 13 gauge carbon steel (mill-galvanized), 16 gauge stainless steel (Type 316-2B to 12” wide), and .125” aluminum.

Perf-O-Grip can also be manufactured in HRPD steel and 14 gauge stainless steel (Type 304-2B) on special order.
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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, 1/2” 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)
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 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 A692) (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”) (1 3/8”) (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 or defects can be removed 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. 1/16” on support 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. 1/16” at ends. When specified, band random cut ends and diagonal or circular cut exposed edges with a min. 1/16” 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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