

Shelving Mezzanines

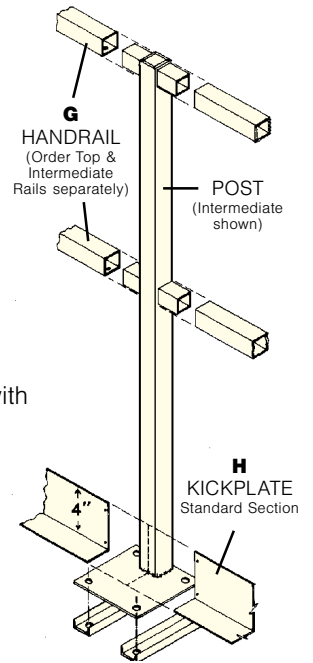
Penco shelving has the structural integrity to allow for custom design of multi-level installations in a myriad of configurations. Our Clipper, Erectomatic®, RivetRite and Wide Span shelving systems along with our Pallet Rack integrate smoothly with mezzanine storage situations. Your Penco representative will discuss these options with you to determine which shelving product will work the best with your application.



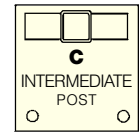
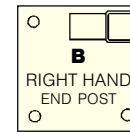
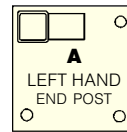
Handrail, Kickplate & Accessories

Penco square tube handrail is designed for shelving decks or other types of storage decks which use Penco Channel-Lock Safety Grating.

Designed for post installation on nominal 6' centers. Base plates are welded to posts. All required fastening hardware including channels for support beneath the grating is included with the posts. Standard finish is 710 Yellow baked enamel.



Available with 2 or 3 rails

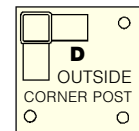


Description

Cat. No.

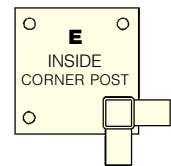
Posts – 42" High for 2 Handrails

| | |
|------------------------|--------|
| A. Left Hand End Post | 85204A |
| B. Right Hand End Post | 85204B |
| C. Intermediate Post | 85204C |
| D. Outside Corner Post | 85204D |
| E. Inside Corner Post | 85204E |

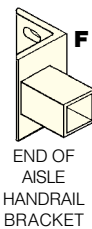


Posts – 42" High for 3 Handrails

| | |
|------------------------|--------|
| A. Left Hand End Post | 85205A |
| B. Right Hand End Post | 85205B |
| C. Intermediate Post | 85205C |
| D. Outside Corner Post | 85205D |
| E. Inside Corner Post | 85205E |

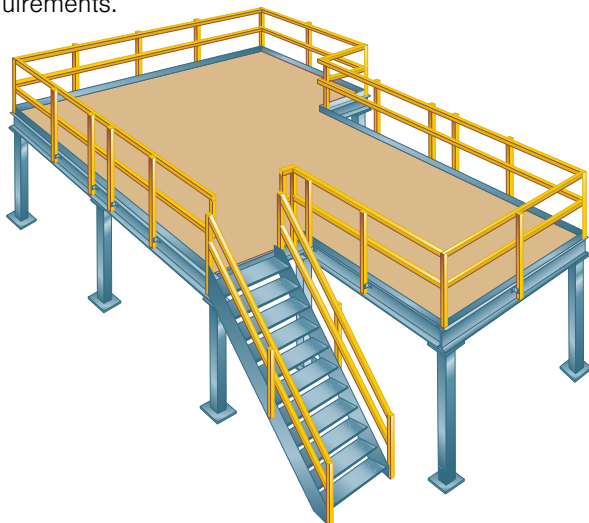


| | |
|--|-------------------|
| F. End of Aisle Handrail Bracket (order 2 per piece of rail) | 85207H |
| G. Handrail (Order Top and Intermediate Rails Separately) Nominal 6' Section | 852066C |
| H. Kickplate – 4" High Standard Nominal 6' For End of 36" Aisle | 850072C 85036H |
| For End of 48" Aisle | 85048H |



Free-Standing Custom Mezzanines

Free-standing custom mezzanine can be designed to fit specific shape, size, height or load requirements. Custom mezzanines can be designed with longer spans while retaining a load rating of up to 150 pounds per square foot. When designing a custom mezzanine structural steel components are used. A variety of deck options are available such as Penco Channel Lock Safety Grating, bar grating, 1-1/2" B-Deck with plywood and diamond plate and many others. For applications requiring a custom mezzanine contact your Penco Sale Representative with your requirements.





Channel-Lock Safety Grating

For Mezzanines, Multi-Level Shelving, Catwalks and Platforms



Safe

Penco Safety Grating's standard slip-resistant surface contains hundreds of shoe-gripping nibs formed into the ribs to provide a safe, comfortable walking surface. The open design keeps small debris from accumulating, and allows passage of air and light.



Easy to Install

Strong

The efficient Channel-Lock design achieves a very high strength-to-weight ratio with double flanges on each rib, and multiple flanges on each side channel for lateral strength. Since each piece is nested in adjacent planks, they actually strengthen one another. Each one-piece rigid plank is manufactured by a continuous roll-forming process capable of producing custom lengths up to 24 feet long.

Economical

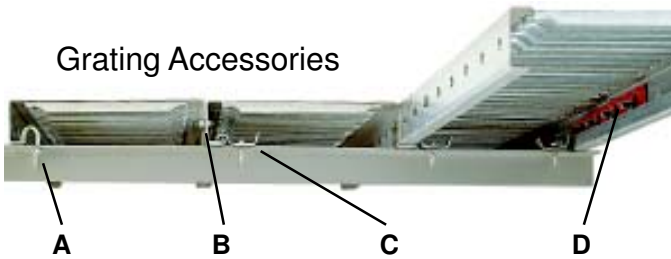
Easy installation of Penco grating pays off in labor savings. Each plank is light enough for one person to carry. Cutting can be easily done with a hacksaw or power saw. All fastening can be done with standard tools – no welding is required, no special material handling equipment is required.

The Advantages

Penco grating is an extremely cost-efficient way to provide an elevated walking surface. Its hot dipped galvanized corrosion-resistant coating insures long, safe life for interior or exterior applications.

Penco Channel-Lock Safety Grating is the ideal companion for multilevel installations made from Penco Clipper® or RivetRite® Shelving, or Penco Pallet Rack.

Grating Accessories



| Name | Description | Size | Cat. No. |
|-------------------|--|--------------|----------|
| A. J-Bolt (w/nut) | Bag of 50 - Fastens grating to support structure. | 5/16" Dia. | 82200 |
| B. Bolts/Nuts | Bag of 50 - hex head bolts & nuts (use 4 per plank) | 5/16" x 5/8" | 82201 |
| C. Hold Down Clip | Fastens grating to support. Includes self-tapping screw. | - | 8HC00H |
| D. Splice | Holds grating together at outside edge of deck. | 12" | 8SP012 |

The grating shown below are the most popular sizes. All are 2" high x 8-7/8" wide, 16 gauge. Other gauges and sizes are available for large applications.

| Type | Application | Length | Cat. No. |
|---------------------------|---|--------|----------|
| MALE/FEMALE 8-7/8" | Interlocks on both sides. Used for most applications | 72" | 8AL072C |
| | | 108" | 8AL108C |
| | | 144" | 8AL144 |
| MALE/MALE 8-7/8" | Interlocks on one side only. For flush fit at edge of deck. | 72" | 8GL072C |
| | | 108" | 8GL108C |
| | | 144" | 8GL144 |
| FILLER 3" | To fill 3" wide gaps. | 72" | 8FK072C |
| | | 108" | 8FK108C |
| | | 144" | 8FK144 |

Shorter lengths available, see RivetRite® section of this catalog.

Grating Capacity Table

16 Gauge x 2" High Unsupported Span in Feet

| Measurement | 3' | 4' | 5' | 6' | 7' | 8' | Point Load * | Weight Per Lin. Ft. (Lbs.) | Weight Per Sq.Ft. (Lbs.) |
|-------------------------------|------|------|------|------|------|-----|--------------|----------------------------|--------------------------|
| Uniform Load (U1) | 668 | 374 | 238 | 164 | 119 | - | | | |
| Deflection (D1) | 0.11 | 0.19 | 0.29 | 0.42 | 0.57 | - | | | |
| Uniform Load PSF (U2) | 668 | 374 | 203 | 116 | 71 | 46 | | | |
| Deflection at Above Load (D2) | 0.11 | 0.19 | 0.25 | 0.3 | 0.35 | 0.4 | 110 | 3.11 | 4.15 |

U1 = Uniform load in pounds per square foot for 9" wide plank (safe stress limit, no restriction on deflection).

D1 = Deflection in inches at load U1.

U2 = Uniform load in pounds per square foot for 9" wide plank (deflection restricted to length/240).

D2 = Deflection in inches at load U2.

* Point Load = Maximum load in pounds for truck wheels each up to two inches wide x 8 inches diameter (for other types of concentrated loads, contact local representative).

To convert square feet to 9" wide linear feet: Multiply square feet x 1.35.

To convert 9" wide linear feet to square feet: Multiply linear feet x .74.

For capacities of other than 2" high, 16 ga. grating, consult factory.