



Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Power-Strut Defender (DF):** Conforms to ASTM A1046 SS GR 33
- **Hot Dip Galvanized (HG):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM A123
- **Perma-Green (GR):** Steel conforms to ASTM A1011 SS GR 33, E-Coat finish
- **Perma-Gold (ZD):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM B633, Type II SC3
- **Plain (PL):** Conforms to ASTM A1011 SS GR 33

Materials & Finishes - Special Metals:

- **Stainless Steel, Type 304 (SS):** ASTM A240, Type 304 *
- **Stainless Steel, Type 316 (ST):** ASTM A240, Type 316 *
- **Aluminum (EA):** ASTM B221, Type 6063-T6 (Extruded) *

* These materials have different physical properties and performance characteristics. Please [contact us](#) for design support.

| Part No. | Length (ft) | Finish | Product Weight / Ft (lbs/ft) |
|----------|-------------|--------|------------------------------|
| PS 500 | 20 | PG | 0.98 |
| PS 500 | 10 | PG | 0.98 |
| PS 500 | 10 | DF | 1.028 |
| PS 500 | 20 | DF | 1.028 |
| PS 500 | 20 | HG | 1.028 |
| PS 500 | 10 | HG | 1.028 |
| PS 500 | 20 | GR | 0.98 |
| PS 500 | 10 | GR | 0.98 |
| PS 500 | 10 | PL | 0.98 |
| PS 500 | 20 | PL | 0.98 |
| PS 500 | 10 | ZD | 0.98 |
| PS 500 | 20 | ZD | 0.98 |
| PS 500 | 20 | SS | 0.98 |
| PS 500 | 10 | SS | 0.98 |

| Beam Loading - PS 500 | | | | | | |
|-----------------------|-------------------------------|---------------------------------|-------------------------------|----------------|----------------|----------------------------------|
| Span (in) | Max Allow. Uniform Load (lbs) | Deflection at Uniform Load (in) | Uniform Loading at Deflection | | | Lateral Bracing Reduction Factor |
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) | |
| 24 | 450 | 0.11 | 450 | 420 | 280 | 1.00 |
| 36 | 300 | 0.24 | 250 | 190 | 130 | 0.98 |
| 48 | 230 | 0.44 | 140 | 110 | 70 | 0.94 |
| 60 | 180 | 0.67 | 90 | 70 | 50 | 0.91 |
| 72 | 150 | 0.96 | 60 | 50 | 30 | 0.89 |
| 84 | 130 | 1.32 | 50 | 30 | 20 | 0.86 |
| 96 | 110 | 1.67 | 40 | 30 | 20 | 0.84 |
| 108 | 100 | 2.16 | 30 | 20 | 10 | 0.82 |
| 120 | 90 | 2.67 | 20 | 20 | 10 | 0.80 |
| 144 | 80 | 4.09 | 20 | NR | NR | 0.76 |
| 168 | 60 | 4.88 | NR | NR | NR | 0.73 |
| 192 | 60 | 7.28 | NR | NR | NR | 0.69 |
| 216 | 50 | 8.64 | NR | NR | NR | 0.65 |
| 240 | 50 | 11.85 | NR | NR | NR | 0.61 |
| Note | NR - Not Recommended | | | | | |

Refer to the General Specifications for loading information.

| Column Loading - PS 500 | | | | | |
|-------------------------|-----------------------------------|---------------------------------|--------------|-------------|-------------|
| Unbraced Height (in) | Allowable Load at Slot Face (lbs) | Max Column Load Applied at C.G. | | | |
| | | K=0.65 (lbs) | K=0.80 (lbs) | K=1.0 (lbs) | K=1.2 (lbs) |
| 24 | 1,840 | 5,610 | 5,210 | 4,570 | 3,850 |
| 36 | 1,640 | 4,660 | 3,850 | 2,800 | 1,960 |
| 48 | 1,310 | 3,490 | 2,480 | 1,590 | 1,100 |
| 60 | 1,000 | 2,400 | 1,590 | KL/r>200 | KL/r>200 |
| 72 | 770 | 1,670 | 1,100 | KL/r>200 | KL/r>200 |

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: