



#### 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:              | <input type="text"/> |        |                      |
| Architect / Engineer: | <input type="text"/> |        |                      |
| Date:                 | <input type="text"/> | Phone: | <input type="text"/> |
| Contractor:           | <input type="text"/> |        |                      |
| Address:              | <input type="text"/> |        |                      |
| Notes:                | <input type="text"/> |        |                      |

**Approval Stamp:**