



3/8" (14) Dia. Holes  
1 7/8" (48) on Center

### Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Unistrut 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

| Part No. | Length (ft) | Finish | Product Weight / Ft (lbs/ft) |
|----------|-------------|--------|------------------------------|
| P1000H3  | 20          | PG     | 1.75                         |
| P1000H3  | 10          | PG     | 1.75                         |
| P1000H3  | 20          | HG     | 1.85                         |
| P1000H3  | 10          | HG     | 1.85                         |
| P1000H3  | 20          | GR     | 1.75                         |
| P1000H3  | 10          | GR     | 1.75                         |
| P1000H3  | 20          | PL     | 1.75                         |
| P1000H3  | 10          | PL     | 1.75                         |

### 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.

|                              |  |               |  |
|------------------------------|--|---------------|--|
| <b>Project:</b>              | <input style="width: 100%;" type="text"/>  |               |  |
| <b>Architect / Engineer:</b> | <input style="width: 100%;" type="text"/>  |               |  |
| <b>Date:</b>                 | <input style="width: 150px;" type="text"/> | <b>Phone:</b> | <input style="width: 100px;" type="text"/> |
| <b>Contractor:</b>           | <input style="width: 100%;" type="text"/>  |               |  |
| <b>Address:</b>              | <input style="width: 100%;" type="text"/>  |               |  |
| <b>Notes:</b>                | <input style="width: 100%;" type="text"/>  |               |  |

### Approval Stamp:

| Beam Loading - P1000H3 |                               |                                 |                               |                |                |                                  |
|------------------------|-------------------------------|---------------------------------|-------------------------------|----------------|----------------|----------------------------------|
| 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                     | 1,521                         | 0.06                            | 1,521                         | 1,521          | 1,521          | 1.00                             |
| 36                     | 1,017                         | 0.13                            | 1,017                         | 1,017          | 810            | 0.94                             |
| 48                     | 765                           | 0.22                            | 765                           | 684            | 450            | 0.88                             |
| 60                     | 612                           | 0.35                            | 585                           | 432            | 288            | 0.82                             |
| 72                     | 504                           | 0.50                            | 405                           | 306            | 198            | 0.78                             |
| 84                     | 432                           | 0.68                            | 297                           | 225            | 144            | 0.75                             |
| 96                     | 378                           | 0.89                            | 225                           | 171            | 117            | 0.71                             |
| 108                    | 342                           | 1.14                            | 180                           | 135            | 90             | 0.69                             |
| 120                    | 306                           | 1.40                            | 144                           | 108            | 72             | 0.66                             |
| 144                    | 252                           | 2.00                            | 99                            | 72             | 54             | 0.61                             |
| 168                    | 216                           | 2.72                            | 72                            | 54             | 36             | 0.55                             |
| 192                    | 189                           | 3.55                            | 54                            | 45             | NR             | 0.51                             |
| 216                    | 171                           | 4.58                            | 45                            | 36             | NR             | 0.47                             |
| 240                    | 153                           | 5.62                            | 36                            | NR             | NR             | 0.44                             |
| Note                   | NR - Not Recommended          |                                 |                               |                |                |                                  |

Refer to the General Specifications for loading information.

| Column Loading - P1000H3 |                                   |                                 |              |             |             |
|--------------------------|-----------------------------------|---------------------------------|--------------|-------------|-------------|
| 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                       | 3,550                             | 10,740                          | 9,890        | 8,770       | 7,740       |
| 36                       | 3,190                             | 8,910                           | 7,740        | 6,390       | 5,310       |
| 48                       | 2,770                             | 7,260                           | 6,010        | 4,690       | 3,800       |
| 60                       | 2,380                             | 5,910                           | 4,690        | 3,630       | 2,960       |
| 72                       | 2,080                             | 4,840                           | 3,800        | 2,960       | 2,400       |
| 84                       | 1,860                             | 4,040                           | 3,200        | 2,480       | 1,980       |
| 96                       | 1,670                             | 3,480                           | 2,750        | 2,110       | 1,660       |
| 108                      | 1,510                             | 3,050                           | 2,400        | 1,810       | KL/r>200    |
| 120                      | 1,380                             | 2,700                           | 2,110        | KL/r>200    | KL/r>200    |
| 144                      | 1,150                             | 2,180                           | 1,660        | KL/r>200    | KL/r>200    |

Refer to the General Specifications for loading information.