

SPECIFICATIONS

FIGURE 7888  
UNISTRUT CHANNEL



1-5/8" x 13/16" 14 GA–HALF SLOT

FEATURES

- 1-5/8" x 13/16"
- 14 Gauge channel
- Half slot
- Material: Pre-galvanized steel, stainless steel
- Load data calculated based on ANSI/AISC 360-2016
- Available in 10 ft and 20 ft lengths
- Available finishes: Pre-galvanized, yellow “gold” zinc, green powder coat, 304 stainless steel

| Catalog Number   | Finish    | Size          |         | Length |       | Gauge |
|------------------|-----------|---------------|---------|--------|-------|-------|
|                  |           | in.           | mm      | ft     | m     |       |
| FNWST7888S14Z2S1 | Pre-Galv. | 1-5/8 x 13/16 | 41 x 21 | 10     | 3.048 | 14    |
| FNWST7888S14Z2S2 | Pre-Galv. | 1-5/8 x 13/16 | 41 x 21 | 20     | 6.096 | 14    |
| FNWST7888S14Y2S1 | Yellow    | 1-5/8 x 13/16 | 41 x 21 | 10     | 3.048 | 14    |
| FNWST7888S14Y2S2 | Yellow    | 1-5/8 x 13/16 | 41 x 21 | 20     | 6.096 | 14    |
| FNWST7888S14G2S1 | Green     | 1-5/8 x 13/16 | 41 x 21 | 10     | 3.048 | 14    |
| FNWST7888S14G2S2 | Green     | 1-5/8 x 13/16 | 41 x 21 | 20     | 6.096 | 14    |
| FNWST7888S1442S1 | 304 SS    | 1-5/8 x 13/16 | 41 x 21 | 10     | 3.048 | 14    |
| FNWST7888S1442S2 | 304 SS    | 1-5/8 x 13/16 | 41 x 21 | 20     | 6.096 | 14    |

SECTION PROPERTIES

| Wt/Ft<br>Lbs | Area of<br>Section<br>Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|--------------|-------------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|              |                               | I in <sup>4</sup> | S in <sup>3</sup> | r in  | I in <sup>4</sup> | S in <sup>3</sup> | r in  |
| 0.88         | 0.274                         | 0.026             | 0.053             | 0.305 | 0.100             | 0.124             | 0.605 |

I = Moment of Inertia S = Section Modulus r = Radius of Gyration

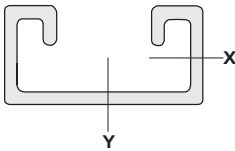


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FIGURE 7888  
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| Span<br>or<br>Unbraced<br>Height<br>(In.) | Static Beam Load (X-X Axis)                  |                                              |                                 |                                 |                                 | Max<br>Allowable<br>Load at<br>Slot Face<br>(lbs) | Column Loading Data |                |                |                | Weight<br>of<br>Channel<br>(lbs) |
|-------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------------------|---------------------|----------------|----------------|----------------|----------------------------------|
|                                           | Max<br>Allowable<br>Uniform<br>Load<br>(lbs) | Deflection<br>at<br>Uniform<br>Load<br>(In.) | Uniform Load at Deflection      |                                 |                                 |                                                   | Max Column Load     |                |                |                |                                  |
|                                           |                                              |                                              | Span/180<br>Deflection<br>(lbs) | Span/240<br>Deflection<br>(lbs) | Span/360<br>Deflection<br>(lbs) |                                                   | k=.65<br>(lbs)      | k=.80<br>(lbs) | k=1.0<br>(lbs) | k=1.2<br>(lbs) |                                  |
| 12                                        | 425                                          | 0.01                                         | 425                             | 425                             | 425                             | 2966                                              | 9768                | 9196           | 8474           | 7797           | 0.88                             |
| 18                                        | 286                                          | 0.03                                         | 286                             | 286                             | 286                             | 2640                                              | 8562                | 7797           | 6838           | 5975           | 1.31                             |
| 24                                        | 213                                          | 0.06                                         | 213                             | 213                             | 213                             | 2341                                              | 7471                | 6538           | 5447           | 4523           | 1.75                             |
| 30                                        | 172                                          | 0.09                                         | 172                             | 172                             | 163                             | 2086                                              | 6477                | 5447           | 4347           | 3661           | 2.19                             |
| 36                                        | 147                                          | 0.13                                         | 147                             | 147                             | 114                             | 1830                                              | 5579                | 4523           | 3661           | 2939           | 2.62                             |
| 42                                        | 123                                          | 0.17                                         | 123                             | 123                             | 82                              | 1690                                              | 4805                | 3942           | 3045           | 2358           | 3.07                             |
| 48                                        | 106                                          | 0.23                                         | 106                             | 98                              | 65                              | 1531                                              | 4242                | 3397           | 2534           | 1927           | 3.49                             |
| 60                                        | 90                                           | 0.35                                         | 82                              | 65                              | 41                              | 1267                                              | 3335                | 2534           | 1804           | **             | 4.37                             |
| 72                                        | 73                                           | 0.51                                         | 58                              | 49                              | NR                              | 1030                                              | 2622                | 1927           | **             | **             | 5.24                             |
| 84                                        | 65                                           | 0.69                                         | 41                              | NR                              | NR                              | **                                                | 2094                | **             | **             | **             | 6.11                             |
| 96                                        | 58                                           | 0.9                                          | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 6.99                             |
| 108                                       | 49                                           | 1.14                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 7.87                             |
| 120                                       | 49                                           | 1.41                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 8.74                             |
| 144                                       | 41                                           | 2.03                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 10.48                            |
| 168                                       | 33                                           | 2.77                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 12.24                            |
| 180                                       | 33                                           | 3.18                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 13.10                            |
| 192                                       | 33                                           | 3.61                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 13.98                            |
| 216                                       | 24                                           | 4.57                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 15.73                            |
| 240                                       | 24                                           | 5.65                                         | NR                              | NR                              | NR                              | **                                                | **                  | **             | **             | **             | 17.47                            |

NR = Not Recommended  
\*\* Not recommended - KL/r exceeds 200

NOTE: 1. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%. 2. The section properties (excluding quality) are in the absence of holes.