



CATEGORY

**STRUT &  
THREADED ROD**

AMMO ITEM #

**U-13/1614GRN**

Company: \_\_\_\_\_

Job: \_\_\_\_\_ #Item: \_\_\_\_\_

Notes: \_\_\_\_\_

## Green Strut Channels OVAL SLOTTED, SHALLOW

**FEATURES**

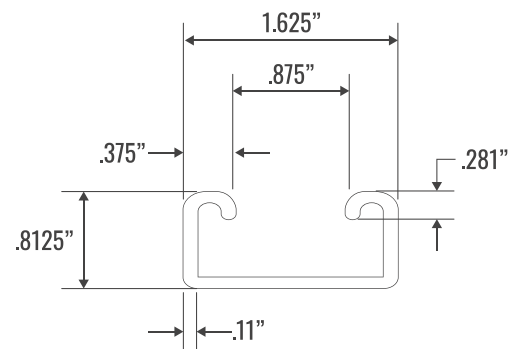
- Proudly Made in the USA
- Effective Properties incorporate
- Strength increase from Cold Forming
- Safety Factor for Beams is 1.67
- Safety Factor for Columns is 1.80

**STANDARD MATERIAL**

- Steel A1003 Grade 50

**CERTIFICATION**

- AISI S100-2016



| AMMO#            | PHYSICAL PROPERTIES |           |        |        |                            |                 |       |     |              |
|------------------|---------------------|-----------|--------|--------|----------------------------|-----------------|-------|-----|--------------|
|                  | SIZE                | WEB DEPTH | FLANGE | RETURN | AREA<br>(in <sup>2</sup> ) | WEIGHT<br>(plf) | GAUGE | PKG | UPC          |
| U-13/16-14-GRN10 | 10'                 | 1.625"    | 13/16" | .375"  | 0.287                      | 0.91344         | 14    | 50  | 840526230945 |
| U-13/1614GRN20   | 20'                 | 1.625"    | 13/16" | .375"  | 0.287                      | 0.91344         | 14    | 25  | 840526242818 |

**STRUT**

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## Green Strut Channels OVAL SLOTTED, SHALLOW



| SPAN | MAX ALLOW<br>UNIFORM - FULLY<br>BRACED<br>(plf) | MAX ALLOW<br>UNIFORM - FULLY<br>BRACED<br>(lbs) | MAX ALLOW<br>UNIFORM LOAD<br>(plf) | MAX ALLOW<br>UNIFORM<br>LOAD<br>(lbs) | DEFLECTION<br>AT MAX LOAD | BEAM LOADING                            |       |       | MAX ALLOW<br>MOMENT AT<br>SPAN<br>(lb-ft) |
|------|-------------------------------------------------|-------------------------------------------------|------------------------------------|---------------------------------------|---------------------------|-----------------------------------------|-------|-------|-------------------------------------------|
|      |                                                 |                                                 |                                    |                                       |                           | MAX UNIFORM LOAD AT DEFLECTION<br>(plf) |       |       |                                           |
|      |                                                 |                                                 |                                    |                                       |                           | L/180                                   | L/240 | L/360 |                                           |
| 18"  | 518.83                                          | 778.24                                          | 579.60                             | 869.30                                | 0.10"                     | 565.9                                   | 424.4 | 282.9 | 163                                       |
| 24"  | 291.84                                          | 583.68                                          | 320.00                             | 640.00                                | 0.18"                     | 238.7                                   | 179.0 | 119.4 | 160                                       |
| 36"  | 129.70                                          | 389.12                                          | 129.80                             | 389.30                                | 0.37"                     | 70.7                                    | 53.1  | 35.4  | 146                                       |
| 48"  | 72.96                                           | 291.84                                          | 67.50                              | 270.00                                | 0.60"                     | 29.8                                    | 22.4  | 14.9  | 135                                       |
| 60"  | 46.69                                           | 233.47                                          | 40.32                              | 201.60                                | 0.88"                     | 15.3                                    | 11.5  | 7.6   | 126                                       |
| 72"  | 32.43                                           | 194.56                                          | 26.44                              | 158.70                                | 1.20"                     | 8.8                                     | 6.6   | 4.4   | 119                                       |
| 84"  | 23.82                                           | 166.77                                          | 18.44                              | 129.10                                | 1.55"                     | 5.6                                     | 4.2   | 2.8   | 113                                       |
| 96"  | 18.24                                           | 145.92                                          | 13.30                              | 106.00                                | 1.89"                     | 3.7                                     | 2.8   | 1.9   | 106                                       |
| 108" | 14.41                                           | 129.71                                          | 10.00                              | 89.80                                 | 2.28"                     | 2.6                                     | 2.0   | 1.3   | 101                                       |
| 120" | 11.67                                           | 116.74                                          | 7.70                               | 76.80                                 | 2.68"                     | 1.9                                     | 1.4   | 1.0   | 96                                        |

| SPAN | COLUMN LOADING                             |         |         |         |
|------|--------------------------------------------|---------|---------|---------|
|      | MAX COLUMN LOAD AT CENTER OF GRAVITY (lbs) |         |         |         |
|      | K= 0.65                                    | K= 0.80 | K= 1.0  | K= 1.2  |
| 18"  | 7.013                                      | 6.261   | 5.243   | 4.283   |
| 24"  | 5.920                                      | 4.914   | 3.698   | 2.730   |
| 36"  | 3.840                                      | 2.730   | 1.888   | 1.401   |
| 48"  | 2.389                                      | 1.699   | 1.179   | 871     |
| 60"  | 1.656                                      | 1.179   | KL/r200 | KL/r200 |
| 72"  | 1.229                                      | 871     | KL/r200 | KL/r200 |
| 84"  | 952                                        | KL/r200 | KL/r200 | KL/r200 |
| 96"  | KL/r200                                    | KL/r200 | KL/r200 | KL/r200 |
| 108" | KL/r200                                    | KL/r200 | KL/r200 | KL/r200 |
| 120" | KL/r200                                    | KL/r200 | KL/r200 | KL/r200 |
| 144" | KL/r200                                    | KL/r200 | KL/r200 | KL/r200 |

**STRUT**