

## 800S125-33 C-STUDS 33 MIL. (20 GA. STRUCTURAL)

### Geometric Properties

800S125-33 "S" structural load-bearing studs are produced from hot-dipped galvanized steel in standard CP60 coating. CP90 is available upon special request, and may require up-charges and extended lead times.

### Physical Properties

| Model No.  | Design Thickness (in) | Minimum Thickness (in) | Yield (ksi) | Coating <sup>3,4</sup> | Web Depth (in) | Flange Size (in) | Lip (in) |
|------------|-----------------------|------------------------|-------------|------------------------|----------------|------------------|----------|
| 800S125-33 | 0.0346                | 0.0329                 | 33          | CP60                   | 8              | 1-1/4            | 1/4      |

#### Notes:

1. Uncoated steel thickness. Thickness is for carbon sheet steel.
2. Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness.
3. Per ASTM C955 & A1003, Table 1.
4. CP90 available upon request. Will require extended lead time and upcharge.

**Color Code (painted on ends):** 33-mil: White

### ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, A1003/1003, C955 & C1007
- ATI CCRR-0224
- IBC: 2012, 2015, 2018, 2021
- CBC: 2013, 2016, 2019
- AISI: S100, S200, S240

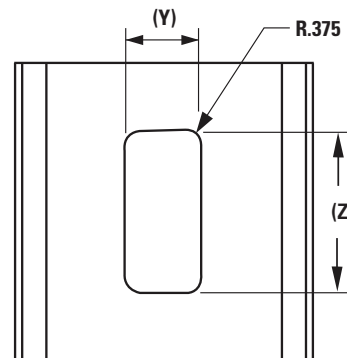
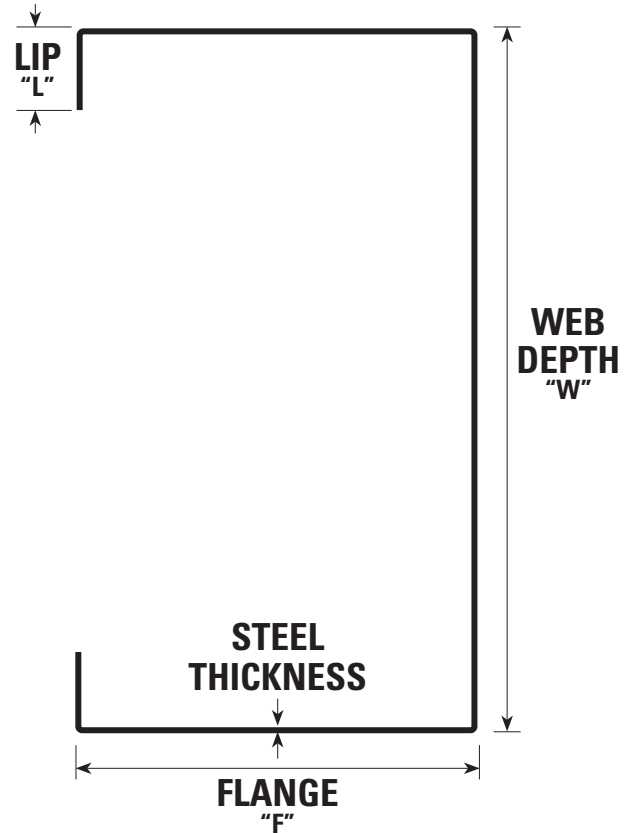
### LEED v4 for Building and Design Construction

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

**CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.**

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

**CSI Division:** 05.40.00 – Cold-Formed Metal Framing



### Hole Detail

| Standard Hole Centers are 24" | (Z) (in) | (Y) (in) |
|-------------------------------|----------|----------|
| 2-1/2" studs                  | 2.000    | 0.750    |
| 3-1/2" to 14" studs           | 3.250    | 1.500    |

### 800S125-33 Section Properties

| Design Thickness<br>(in.) | Fy<br>(ksi) | Gross <sup>3</sup>       |                          |            |                          |            | Effective Properties <sup>2</sup> |                          |              |             |               |               | Torsional Properties         |                          |            |           |            |       | Lu<br>(in) |
|---------------------------|-------------|--------------------------|--------------------------|------------|--------------------------|------------|-----------------------------------|--------------------------|--------------|-------------|---------------|---------------|------------------------------|--------------------------|------------|-----------|------------|-------|------------|
|                           |             | Ix<br>(in <sup>4</sup> ) | Sx<br>(in <sup>3</sup> ) | Rx<br>(in) | Iy<br>(in <sup>4</sup> ) | Ry<br>(in) | Ix<br>(in <sup>4</sup> )          | Sx<br>(in <sup>3</sup> ) | Ma<br>(in-k) | Vag<br>(lb) | Vanet<br>(lb) | Mad<br>(in-k) | Jx1000<br>(in <sup>4</sup> ) | Cw<br>(in <sup>6</sup> ) | Xo<br>(in) | m<br>(in) | Ro<br>(in) | β     |            |
| 0.0346                    | 33          | 2.883                    | 0.721                    | 2.807      | 0.044                    | 0.347      | 2.331                             | 0.492                    | 8.110        | 474         | 379           | 6.280         | 0.146                        | 0.583                    | -0.519     | 0.350     | 2.875      | 0.967 | 26.6       |

**Notes:** 1. Web depth for track sections equals nominal depth plus 2 times the design thickness plus bend radius. 2. The values are for members with punch-outs. 3. Gross properties are based on the full, unreduced cross-section, away from web

punchouts. 4. Use the effective moment of inertia for deflection calculation. 5. Allowable moment is lesser of Ma and Mad. Distortional buckling is based on an assumed  $K\phi = 0$ . 6. These members are available un-punched only.