



Expanding Your Solutions

Corporate Headquarters
13191 Crossroads Pkwy N., Ste 325
City of Industry, CA 91746
Phone: 800.775.2362
Fax: 626.330.7598
www.cemcosteel.com

Manufacturing Facilities
City of Industry, CA
Denver, CO
Ft. Worth, TX
Pittsburg, CA

Structural Engineering/Design
1001-A Pittsburgh Antioch Hwy
Pittsburg, CA 94565
Phone: 800.775.2362
Fax: 626.330.7598
www.cemcoengineering.com

Technical Services
13191 Crossroads Pkwy N., Ste 325
City of Industry, CA 91746
Phone: 800.416.2278
Fax: 626.249.5004

800S250-68 C-STUD 68 MIL (14 GA. STRUCTURAL)

Geometric Properties

800S250-68 "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 ^{3,4} | Web Depth (in) | Flange Size (in) | Lip (in) |
|------------|-----------------------|------------------------|-------------|------------------------|----------------|------------------|----------|
| 800S250-68 | 0.0713 | 0.0677 | 50 | CP60 | 8 | 2-1/2 | 5/8 |

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): 68-mil: Orange

ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, A1003/1003, C955 & C1007
- ICC-ES & SFIA Code Compliance Certification Program
- ICC ESR-3016
- ATI CCRR-0224
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S200-12, S240-15

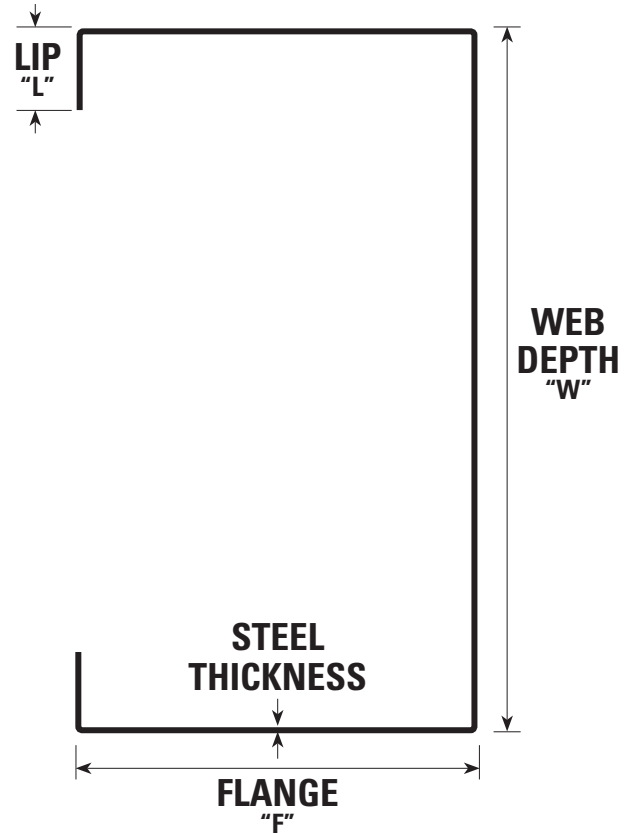
LEED v4 for Building and Design Construction

- 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 |

800S250-68 Section Properties

| Design Thickness (in.) | Fy (ksi) | Gross ³ | | | | | Effective Properties ² | | | | | | Torsional Properties | | | | | | Lu (in) |
|------------------------|----------|-----------------------|-----------------------|---------|-----------------------|---------|-----------------------------------|-----------------------|-----------|----------|------------|------------|---------------------------|-----------------------|---------|--------|---------|-------|---------|
| | | Ix (in ⁴) | Sx (in ³) | Rx (in) | Iy (in ⁴) | Ry (in) | Ix (in ⁴) | Sx (in ³) | Ma (in-k) | Vag (lb) | Vanet (lb) | Mad (in-k) | Jx1000 (in ⁴) | Cw (in ⁶) | Xo (in) | m (in) | Ro (in) | β | |
| 0.0713 | 50 | 9.261 | 2.315 | 3.077 | 0.752 | 0.877 | 9.240 | 2.059 | 61.65 | 4221 | 3367 | 53.69 | 1.658 | 9.652 | -1.644 | 1.027 | 3.597 | 0.791 | 49.6 |

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.

Check the updated list of Certified Production Facilities at Intertek's website at <http://www.intertek.com/building/sfia>



This technical information reflects the most current information available and supersedes any and all previous publications effective December 04, 2018.

12-04-18 AT