



**Corporate Headquarters**  
 13191 Crossroads Pkwy N., Ste 325  
 City of Industry, CA 91746  
 Phone: 800.775.2362  
 Fax: 626.330.7598  
[www.cemcosteel.com](http://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](http://www.cemcoengineering.com)

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

## 1200S250-97 C-STUD 97 MIL (12 GA. STRUCTURAL)

### Geometric Properties

1200S250-97 "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)
1200S250-97	0.1017	0.0966	50	CP60	12	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):** 97-mil: Red

### 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

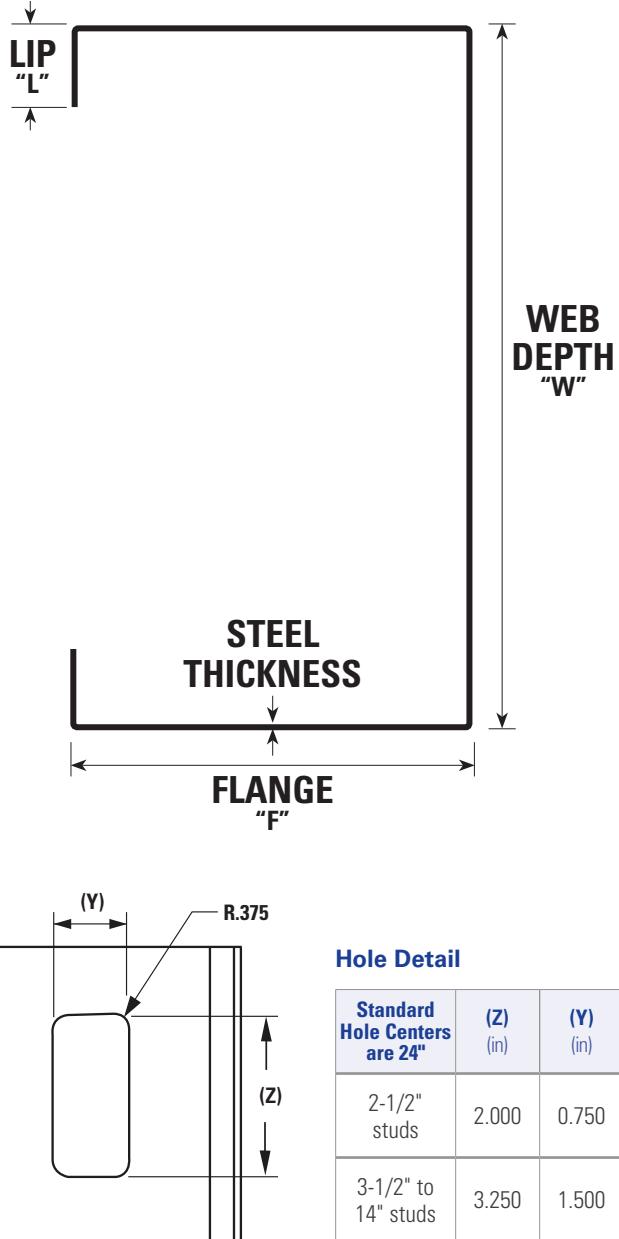
### LEED v4 for Building and Design Construction

- 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



### 1200S250-97 Section Properties

Design Thickness (in.)	F <sub>y</sub> (ksi)	Gross <sup>3</sup>					Effective Properties <sup>2</sup>						Torsional Properties						L <sub>u</sub> (in.)
		I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	M <sub>a</sub> (in-k)	V <sub>ag</sub> (lb)	V <sub>anet</sub> (lb)	M <sub>ad</sub> (in-k)	J <sub>x1000</sub> (in <sup>4</sup> )	C <sub>w</sub> (in <sup>3</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	B	
0.1017	50	34.016	5.669	4.373	1.121	0.794	33.835	5.037	150.82	8147	7411	135.18	6.134	32.734	-1.329	0.867	4.639	0.918	47.5

**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 M<sub>a</sub> and M<sub>ad</sub>. Distortional buckling is based on an assumed K<sub>0</sub> = 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.