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## 400S350-68 C-STUD 68 MIL (14 GA. STRUCTURAL)

### Geometric Properties

400S350-68 "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 <sup>3,4</sup>	Web Depth (in)	Flange Size (in)	Lip (in)
400S350-68	0.0713	0.0677	50	CP60	4	3-1/2	1

#### 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

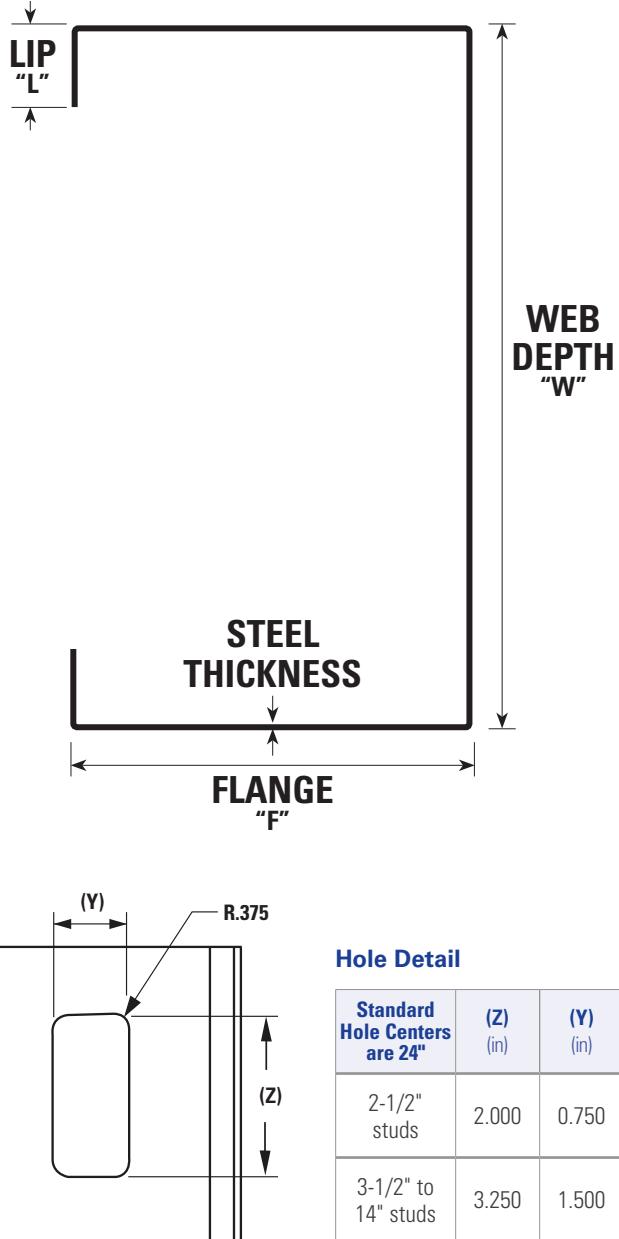
### LEED v4 for Building and Design Construction

- 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



### 400S350-68 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	
0.0713	50	2.491	1.245	1.674	1.586	1.336	2.474	1.007	30.16	4871	1356	31.88	1.507	7.786	-3.357	1.917	3.982	0.289	77.7

**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.