



Expanding Your Solutions

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550S250-118 • C-STUD 118 MIL (10 GA.)

Geometric Properties

550S250-118 "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.) ¹	Minimum Thickness (in.) ²	Yield (ksi)	Coating ^{3,4}	Web Depth (in)	Flange Size (in)	Lip (in)
550S250-118	0.1242	0.1180	50	CP60	5-1/2	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): 118-mil: Blue

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: 2015, 2018, 2021
- CBC: 2019, 2022
- AISI: S100, S200, S240

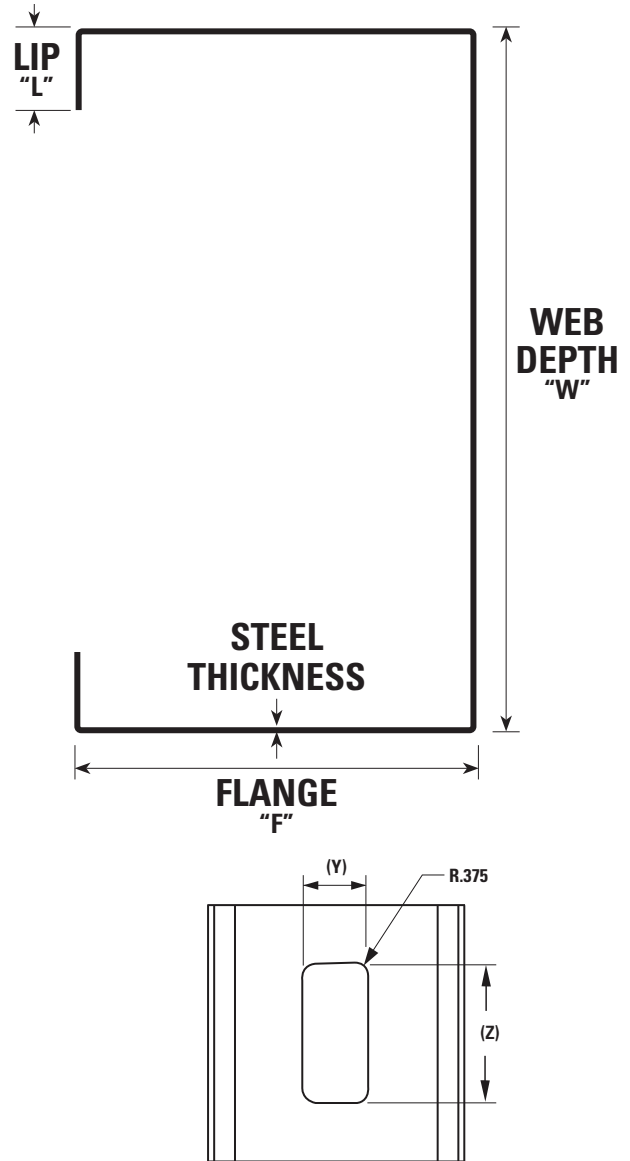
LEED v4 for Building and Design Construction

- 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" stud	3.250"	1.500"

550S250-118 Section Properties

Design Thickness (in.) ¹	Gross							Effective Properties 50 ksi					Torsional Properties					
	Area (in ²)	Weight (lb/ft)	Sx (in ³)	Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Ma (in-k)	Vag (lb)	Sy (in ³)	Jx1000 (in ⁴)	Cw (in)	Xo (in)	m (in)	Ro (in)	Beta
0.1242	1.3447	4.5757	2.2872	6.2899	2.1628	1.0438	0.8811	6.2899	2.2872	76.4268	11362	0.6082	6.9142	6.7440	-1.8330	1.1110	2.9690	0.6190

Notes: 1. Web depth for track sections equals nominal depth plus 2 times the design thickness plus bend radius. 2. The centerline bend radius is based on inside corner radii. 3. Effective properties include the strength increase from cold-work of forming per 2012 AISI. 4. Tabulated gross properties are based on full section. 5. Allowable moment is the lesser of Mal and Mad. Stud distortional buckling is based on an assumed K=0. 6. For deflection determination, use the effective moment of inertia.

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 May 1, 2024.

05/01/2024 AT