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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.) ^{1,2}	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 CCR-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

550S250-118 Section Properties

Design Thickness (in.) ¹	Gross							Effective Properties 50 ksi							Torsional Properties					
	Area (in ²)	Weight (lb/ft)	S _x (in ³)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	V _{ag} (lb)	S _y (in ³)	J _{x1000} (in ⁴)	C _w (in)	X _o (in)	m (in)	R _o (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 M_a and M_d . 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 December 04, 2018.
 12-04-18 AT