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550S350-118 • PUNCHED STUD 118 MIL (10 GA.)

Geometric Properties

550S350-118 "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)
550S350-118	0.1242	0.1180	50	CP60	5-1/2	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): 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: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S200-12, S240-15

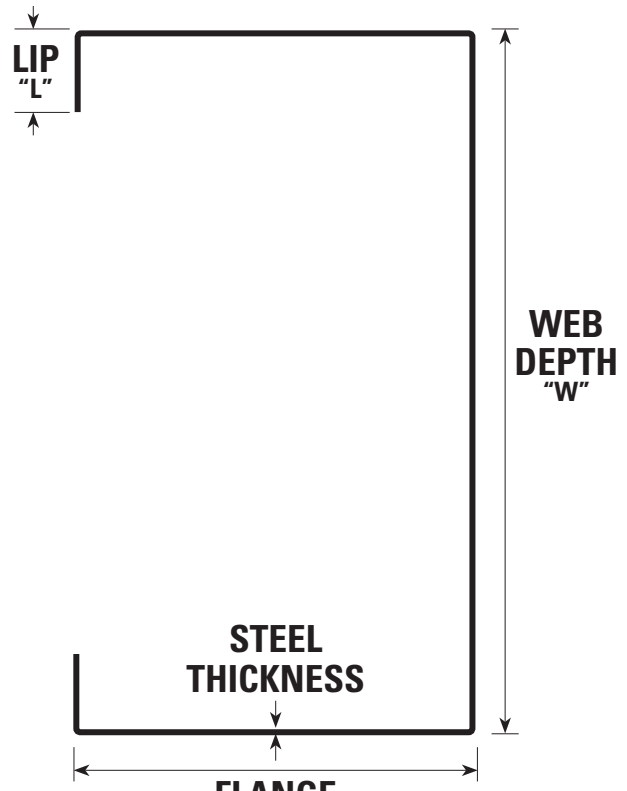
LEED v4 for Building and Design Construction

- 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.

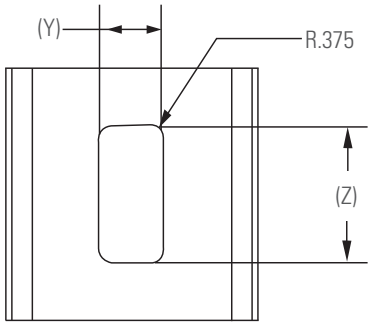
CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

- 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" stud	3.250"	1.500"

550S350-118 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	1.6862	5.7379	3.0674	8.4353	2.2366	2.8839	1.3078	8.4353	3.0674	96.9204	11362	1.3198	8.6704	21.8338	-3.0280	1.7750	3.9850	0.4230

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 December 04, 2018.
12-04-18 AT