



Expanding Your Solutions

Corporate Headquarters

13191 Crossroads Pkwy N., Ste 325
City of Industry, CA 91746
Phone: 800.775.2362
Fax: 626.330.7598

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

Technical Services

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

1125SSCJ175-54 PUNCHED SURE-SPAN™ C-JOIST 11.25" DEPTH

Geometric Properties

1125SSCJ175-54 Sure-Span™ floor joist is manufactured with a 1.75" flange, in 54 mil thickness. All SSCJ joists are available with the large punch-outs at 48" on-center, with the first punch-out 18" from one end. All CEMCO SSCJ load bearing floor joists are produced from hot-dipped galvanized steel in standard CP60 coating. CP90 is available upon special request.

Steel Thickness

Mil Thickness	Design Thickness (in.) ¹	Minimum Thickness (in.) ^{1,2}	Color Code (painted on ends)
54	0.0566" (1.44 mm)	0.0538" (1.37 mm)	Green

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 delivered to the job site, based on AISI S100.

ASTM's & Code Standards

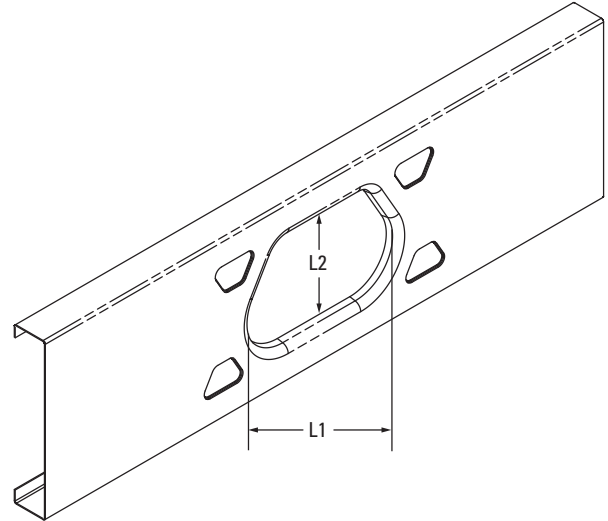
- ASTM A653/A653M, A924/A924M, & A1003/A1003M, C955, C1007
- UL Classified and UL Certified (UL FUS)
- UL G556, G557, G559, G560, G565, G574, G580, G588, G595, H503, H508, P546, P561, P562
- IBC: 2012, 2015, 2018, 2021
- CBC: 2013, 2016, 2019
- AISI: S100, S200, S240

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.

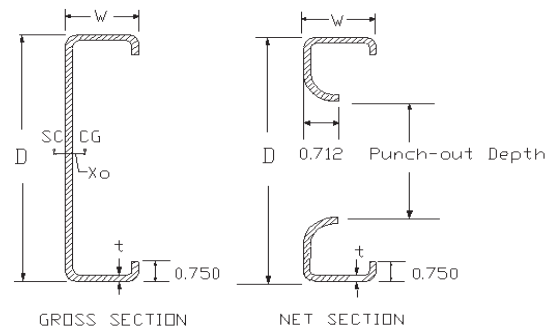
CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%



Punch-Out Dimensions

Section	L1 (in.)	L2 (in.)	Spacing Between Punch-Outs (in.)
1125SSCJ175-54	9-15/32	6-1/4	48



1125SSCJ175-54 Structural Properties & Load Capacities

Dimensions			Gross Section Properties								Torsional Properties					Net Section Properties		Capacities	
w (in)	Gauge	t (in)	Weight (plf)	Area (in²)	Ix (in⁴)	Iy (in⁴)	Sx (in³)	Sy (in³)	Rx (in)	Ry (in)	Xo (in)	Jx1000 (in⁴)	Cw (in⁵)	Ro (in)	β	An (in²)	Ixn (in⁴)	Mall (k-in)	Vall (k)
1.75	16	0.0566	3.046	0.896	14.516	0.307	2.581	0.220	4.025	0.585	-0.952	0.957	7.842	4.177	0.948	0.546	13.502	52.327	1.177

Notes:

- The yield strength, F_y , is 33 ksi for 18 gauge and 50 ksi for 16, 14, and 12 gauge material.
- Tabulated weight values are based on full section geometry.
- Punch-out Depth = 4.25" (web depth 7.25", 8" and 9.25"), 6.25" (web depth 10" and 11.25"), 8" (web depth 12"), 10" (web depth 14")

- For Allowable Stress Design (ASD) method, use a factor of safety of 1.95 for both moment and shear capacities. This factor of safety is obtained from a joist test program as per AISI 2012, Chapter F.
- Allowable moment, M_{all} , and shear, V_{all} , capacities for joists are obtained by applying factors of safety to the least nominal capacities (between full and net section capacities).

Technical Services

Technical Services: 800.416.2278
Structural Engineering/Design: 925.473.9340
www.cemcosteel.com



This technical information reflects the most current information available and supersedes any and all previous publications effective April 06, 2022.

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