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# 800SSCJ175-54 PUNCHED SURE-SPAN<sup>™</sup> C-JOIST 8" DEPTH

### **Geometric Properties**

800SSCJ175-54 Sure-Span<sup>™</sup> floor joist is manufactured with a 1-3/4" 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.) <sup>1</sup>	Minimum Thickness (in.) <sup>1,2</sup>	<b>Color Code</b> (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%

# 800SSCJ175-54 Structural Properties & Load Capacities

	Dimensions		Gross Section Properties						Torsional Properties				Net Section Properties		Capacities				
<b>w</b> (in)	Gauge	t (in)	Weight (plf)	Area (in²)	<b>lx</b> (in <sup>4</sup> )	<b>ly</b> (in <sup>4</sup> )	<b>Sx</b> (in <sup>3</sup> )	<b>Sy</b> (in³)	<b>Rx</b> (in)	<b>Ry</b> (in)	<b>Xo</b> (in)	<b>Jx1000</b> (in <sup>4</sup> )	<b>Cw</b> (in <sup>6</sup> )	<b>Ro</b> (in)	ß	An (in²)	<b>lxn</b> (in <sup>4</sup> )	<b>Mall</b> (k-in)	Vall (k)
1.75	16	0.0566	2.421	0.712	6.282	0.282	1.571	0.215	2.970	0.630	-1.136	0.760	3.710	3.242	0.877	0.534	6.192	35.904	1.655

Notes

1. The yield strength, Fy, is 33 ksi for 18 gauge and 50 ksi for 16, 14, and 12 gauge material.

2. Tabulated weight values are based on full section geometry.

**3.** 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, Mall, and shear, Vall, capacities for joists are obtained by applying factors of safety

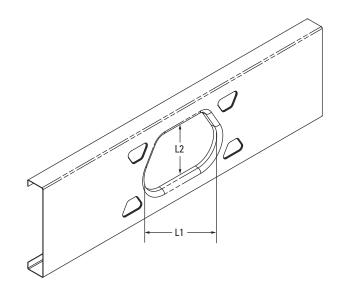
 Allowable moment, Mall, and shear, Vall, capacities for joists are obtained by applying factors of safety to the least nominal capacities (between full and net section capacities).

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. 04-06-22 AT



# **Punch-Out Dimensions**

Section	L1 (in.)	<b>L2</b> (in.)	Spacing Between Punch-Outs (in.)			
800SSCJ175-54	7-5/32	4-1/4	48			

