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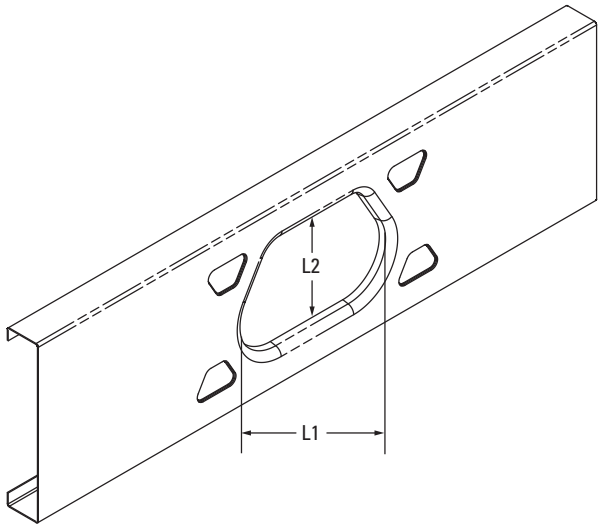
# 800SSCJ175-43 PUNCHED SURE-SPAN™ C-JOIST 8" DEPTH

## Geometric Properties

800SSCJ175-43 Sure-Span™ floor joist is manufactured with a 1-3/4" flange, in 43 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) |
|---|---|---|---|
| 43 | 0.0451" (1.15 mm) | 0.0428" (1.09 mm) | Yellow |

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

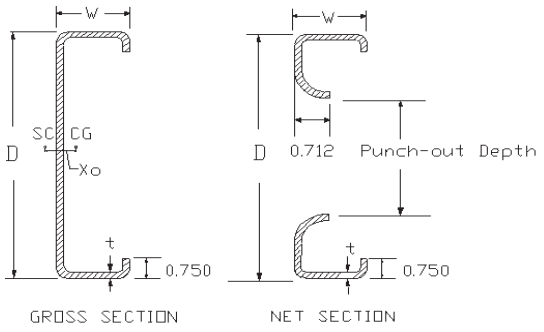
- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental 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.) |
|---|---|---|---|
| 800SSCJ175-43 | 7-5/32 | 4-1/4 | 48 |




## 800SSCJ175-43 Structural Properties & Load Capacities

| Dimensions | | | Gross Section Properties | | | | | | | | Torsional Properties | | | | | Net Section Properties | | Capacities | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| w (in) | Gauge | t (in) | Weight (plf) | Area ($in^2$) | Ix ($in^4$) | Iy ($in^4$) | Sx ($in^3$) | Sy ($in^3$) | Rx (in) | Ry (in) | Xo (in) | Jx1000 ($in^4$) | Cw ($in^6$) | Ro (in) | ß | An ($in^2$) | Ixn ($in^4$) | Mall (k-in) | Vall (k) |
| 1.75 | 18 | 0.0451 | 1.941 | 0.571 | 5.069 | 0.231 | 1.267 | 0.176 | 2.980 | 0.636 | -1.149 | 0.387 | 3.047 | 3.256 | 0.875 | 0.430 | 5.001 | 18.736 | 0.837 |

**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")
**4.** 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.
**5.** 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
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This technical information reflects the most current information available and supersedes any and all previous publications effective April 06, 2022.
04-06-22 AT