



Expanding Your Solutions

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800S162-33 C-STUDS 33 MIL. (20 GA. STRUCTURAL)

Geometric Properties

800S162-33 "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) | Minimum Thickness (in) | Yield (ksi) | Coating ^{3,4} | Web Depth (in) | Flange Size (in) | Lip (in) |
|------------|-----------------------|------------------------|-------------|------------------------|----------------|------------------|----------|
| 800S162-33 | 0.0346 | 0.0329 | 33 | CP60 | 8 | 1-5/8 | 1/2 |

Notes:

- Uncoated steel thickness. Thickness is for carbon sheet steel.
- Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness.
- Per ASTM C955 & A1003, Table 1.
- CP90 available upon request. Will require extended lead time and upcharge.

Color Code (painted on ends): 33-mil: White

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: 2015, 2018, 2021
- CBC: 2019, 2022
- AISI: S100, S200, S240

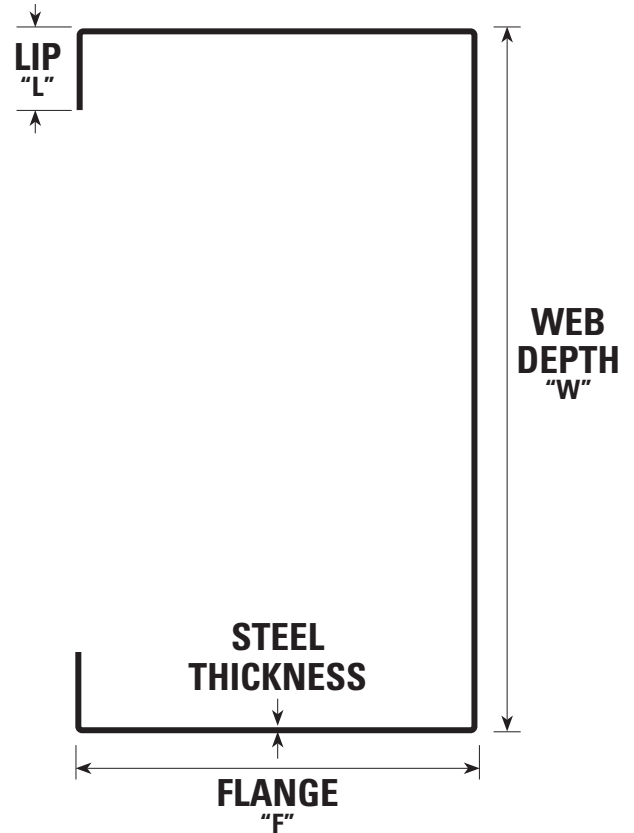
LEED v4 for Building and Design Construction

- 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%

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" studs | 3.250 | 1.500 |

800S162-33¹ Section Properties

| Design Thickness (in.) | Fy (ksi) | Gross ³ | | | | | Effective Properties ² | | | | | | Torsional Properties | | | | | | Lu (in) |
|------------------------|----------|-----------------------|-----------------------|---------|-----------------------|---------|-----------------------------------|-----------------------|-----------|----------|------------|------------|---------------------------|-----------------------|---------|--------|---------|-------|---------|
| | | Ix (in ⁴) | Sx (in ³) | Rx (in) | Iy (in ⁴) | Ry (in) | Ix (in ⁴) | Sx (in ³) | Ma (in-k) | Vag (lb) | Vanet (lb) | Mad (in-k) | Jx1000 (in ⁴) | Cw (in ⁶) | Xo (in) | m (in) | Ro (in) | β | |
| 0.0346 | 33 | 3.582 | 0.896 | 2.943 | 0.125 | 0.550 | 3.384 | 0.710 | 14.03 | 474 | 474 | 12.61 | 0.165 | 1.630 | -0.936 | 0.607 | 3.137 | 0.911 | 40.1 |

Notes: 1. Web depth for track sections equals nominal depth plus 2 times the design thickness plus bend radius. 2. The values are for members with punch-outs. 3. Gross properties are based on the full, unreduced cross-section, away from web

punchouts. 4. Use the effective moment of inertia for deflection calculation. 5. Allowable moment is lesser of Ma and Mad. Distortional buckling is based on an assumed $K\phi = 0$. 6. These members are available un-punched only.

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 May 1, 2024.

05/01/2024 AT