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250S125-33 C-STUDS 33 MIL. (20 GA. STRUCTURAL)

Geometric Properties

250S125-33 "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) |
|------------|-----------------------|------------------------|-------------|------------------------|----------------|------------------|----------|
| 250S125-33 | 0.0346 | 0.0329 | 33 | CP60 | 2-1/2 | 1-1/4 | 1/4 |

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): 33-mil: White

ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, A1003/1003, C955 & C1007
- ATI CCRR-0224
- IBC: 2012, 2015, 2018, 2021
- CBC: 2013, 2016, 2019
- AISI: S100, S200, S240

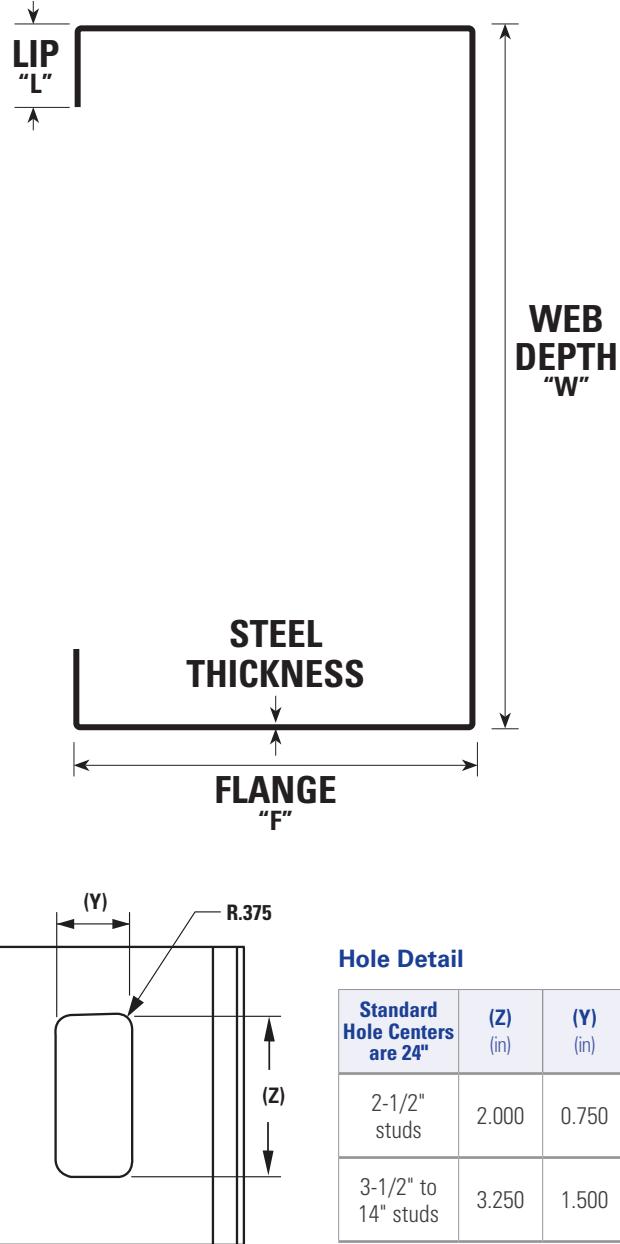
LEED v4 for Building and Design Construction

- 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%

CSI Division: 05.40.00 – Cold-Formed Metal Framing



250S125-33 Section Properties

| Design Thickness (in.) | F _y (ksi) | Gross ³ | | | | | Effective Properties ² | | | | | | Torsional Properties | | | | | | L _u (in.) |
|------------------------|----------------------|-----------------------------------|-----------------------------------|---------------------|-----------------------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------|----------------------|------------------------|------------------------|---------------------------------------|-----------------------------------|---------------------|--------|---------------------|-------|----------------------|
| | | I _x (in ⁴) | S _x (in ³) | R _x (in) | I _y (in ⁴) | R _y (in) | I _x (in ⁴) | S _x (in ³) | M _a (in-k) | V _{ag} (lb) | V _{anet} (lb) | M _{ad} (in-k) | J _{x1000} (in ⁴) | C _w (in ³) | X _o (in) | m (in) | R _o (in) | B | |
| 0.0346 | 33 | 0.178 | 0.142 | 1.007 | 0.033 | 0.431 | 0.164 | 0.124 | 2.450 | 975 | 399 | 2.110 | 0.070 | 0.040 | -0.886 | 0.532 | 1.409 | 0.604 | 28.9 |

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 M_a and M_{ad}. Distortional buckling is based on an assumed K₀ = 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 June 15, 2022.

06-15-22 AT