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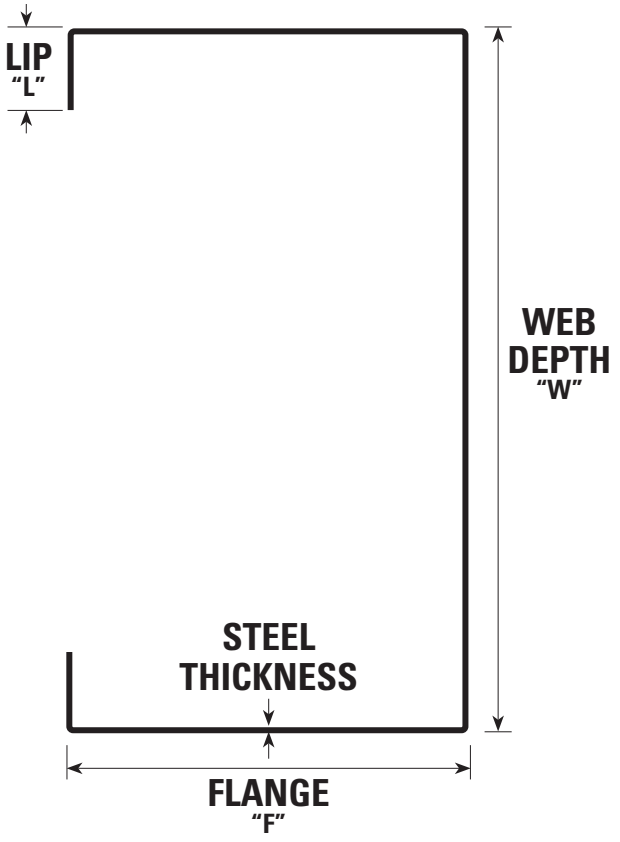
400S125-43 C-STUDS 43 MIL. (18 GA. STRUCTURAL)

Geometric Properties

400S125-43 "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)
400S125-43	0.0451	0.0428	33	CP60	4	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): 43-mil: Yellow

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

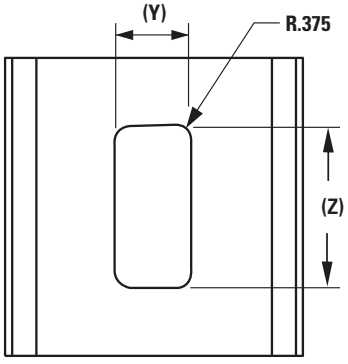
LEED v4 for Building and Design Construction

- 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



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

400S125-43 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)	ß	
0.0451	33	0.682	0.341	1.522	0.048	0.402	0.650	0.314	6.200	1740	810	5.310	0.200	0.146	-0.727	0.459	7.134	0.824	28.2

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 Kϕ = 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