

Expanding Your Solutions

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1000S162-43 C-STUDS 43 MIL. (18 GA. STRUCTURAL)

Geometric Properties

1000S162-43 "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)	
1000S162-43 ⁵	0.0451	0.0428	33	CP60	10	1-5/8	1/2	

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.
- Web-height to thickness ration exceeds 200. Web stiffeners are required at all support points and concentrated loads. Punchouts/holes in the web are outside the scope of this report (ICC ES ESR-3016).

Color Code (painted on ends): 43-mil: Yellow

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: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S200-12, S240-15

LEED v4 for Building and Design Construction

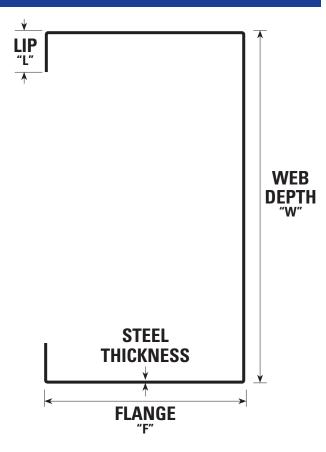
- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

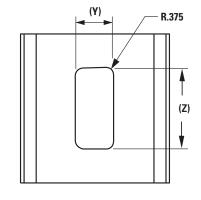
CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

■ 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			

1000S162-431 Section Properties

Design Thickness (in.)	Gross ³				Effective Properties ²						Torsional Properties						1		
	·y	lx (in ⁴)	Sx (in³)	Rx (in)	ly (in ⁴)	Ry (in)	lx (in ⁴)	Sx (in³)	Ma (in-k)	Vag (lb)	Vanet (lb)	Mad (in-k)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	ß	Lu (in)
0.0451	33	8.025	1.605	3.577	0.168	0.518	7.523	1.302	25.74	836	836	22.47	0.425	3.430	-0.823	0.545	3.707	0.951	38.8

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 $K\varphi=0$. 6. These members are available un-punched only.







Check the updated list of Certified Production