



Expanding Your Solutions

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# "CT" – SHAFT WALL STUDS, 43 Mil

## Geometric Properties

CEMCO's 43 Mil CT studs are fabricated in web depths of 2-1/2", 4" and 6" each with a short-flange width of 1-3/8" and long-flange width of 1-5/8". All CT studs manufactured by CEMCO are produced from hot-dipped galvanized steel in standard G60 coating. G90 is available upon special request.

## Steel Thickness

Member Depth (A) (in)	Thickness (mil)	Design Thickness (in) <sup>1</sup>	Minimum Thickness (in) <sup>2</sup>
2-1/2, 4, 6	43	0.0451 (1.15 mm)	0.043 (1.09 mm)

### 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 delivered to the job site, based on AISI S100.

## Color Code (painted on ends):

43-mil: Yellow

## ASTM & Code Standards:

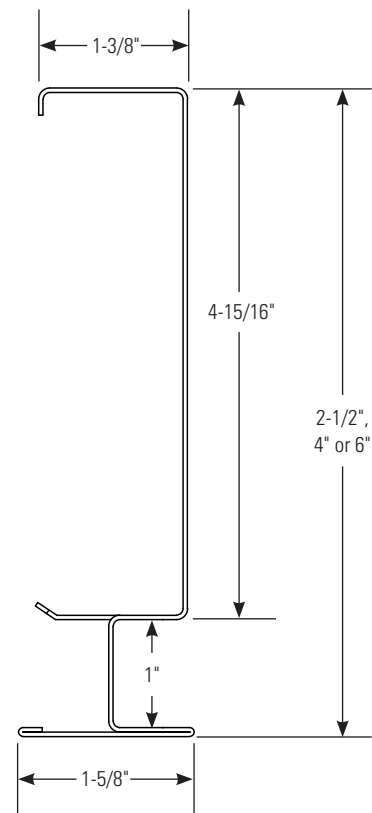
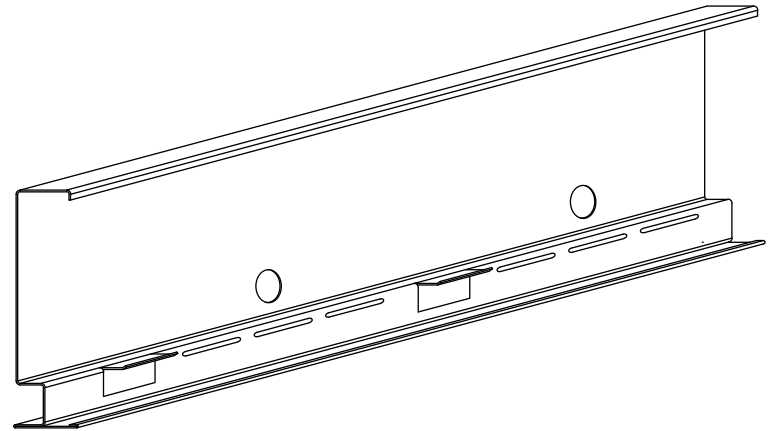
- ASTM A653/A653M, A924/A924M, A1003/A1003M, C645
- ICC-ESR 4934
- IBC/IRC: 2015, 2018, 2021
- CBC: 2013, 2016, 2019
- AISI: S100, S220

## 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%



## Technical Services

Technical Services: 800.416.2278  
Structural Engineering/Design: 925.473.9340  
www.cemcosteel.com



This technical information reflects the most current information available and supersedes any and all previous publications effective July 08, 2022.

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**Limiting Heights**

Stud Depth	Model Number	Gauge	Design Thickness (in)	Yield (ksi)	Deflection	5 psf	7.5 psf	10 psf	15 psf
<b>1-Hour Shaft Wall System</b>									
2-1/2"	18CT212	18	0.0451	40	L/120	16' 2"	14' 2"	12' 11"	6' 7"
					L/180	13' 11"	12' 2"	11' 1"	6' 7"
					L/240	12' 5"	10' 10"	9' 10"	6' 7"
					L/360	10' 5"	9' 1"	8' 4"	0' 0"
4"	18CT4	18	0.0451	40	L/120	23' 7"	20' 7"	17' 7"	6' 7"
					L/180	20' 10"	18' 1"	16' 6"	6' 7"
					L/240	18' 11"	16' 6"	15' 0"	6' 7"
					L/360	16' 7"	14' 6"	13' 0"	6' 7"
6"	18CT6	18	0.0451	40	L/120	30' 1"	23' 6"	17' 7"	6' 7"
					L/180	26' 2"	22' 11"	17' 7"	6' 7"
					L/240	23' 7"	20' 7"	17' 7"	6' 7"
					L/360	20' 6"	17' 11"	16' 4"	6' 7"
<b>2-Hour Shaft Wall System</b>									
2-1/2"	18CT212	18	0.0451	40	L/120	17' 0"	14' 11"	13' 6"	6' 7"
					L/180	14' 11"	13' 0"	11' 10"	6' 7"
					L/240	13' 6"	11' 10"	10' 8"	6' 7"
					L/360	11' 6"	10' 0"	9' 1"	0' 0"
4"	18CT4	18	0.0451	40	L/120	24' 8"	21' 7"	17' 7"	6' 7"
					L/180	21' 10"	19' 1"	17' 4"	6' 7"
					L/240	20' 0"	17' 6"	15' 11"	6' 7"
					L/360	17' 8"	15' 6"	14' 0"	6' 7"
6"	18CT6	18	0.0451	40	L/120	31' 2"	23' 6"	17' 7"	6' 7"
					L/180	27' 5"	23' 6"	17' 7"	6' 7"
					L/240	24' 11"	21' 10"	17' 7"	6' 7"
					L/360	21' 11"	19' 1"	17' 5"	6' 7"
<b>1-Hour Stairwell System</b>									
4"	18CT4	18	0.0451	40	L/120	24' 2"	21' 1"	19' 2"	10' 5"
					L/180	21' 6"	18' 8"	17' 0"	10' 5"
					L/240	19' 8"	17' 2"	15' 7"	10' 5"
					L/360	17' 4"	15' 2"	13' 8"	10' 5"
6"	18CT6	18	0.0451	40	L/120	30' 7"	25' 0"	21' 8"	10' 5"
					L/180	27' 5"	23' 11"	21' 8"	10' 5"
					L/240	25' 2"	22' 0"	20' 0"	10' 5"
					L/360	22' 2"	19' 5"	17' 7"	10' 5"

**Notes:**

1. Allowable heights are based on the transverse load test complying with ICC-ES AC86 and AISI S916-15.
2. Studs spaced at 24" O.C. maximum.
3. Standard J-Track is used as both top and bottom track.
4. CT-Shaft Stud limiting heights were tested with 5/8" Type-X gypsum board oriented vertically.

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