



Expanding Your Solutions

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"F" – FURRING CHANNEL • 7/8" HEIGHT • 18 MIL.

Geometric Properties

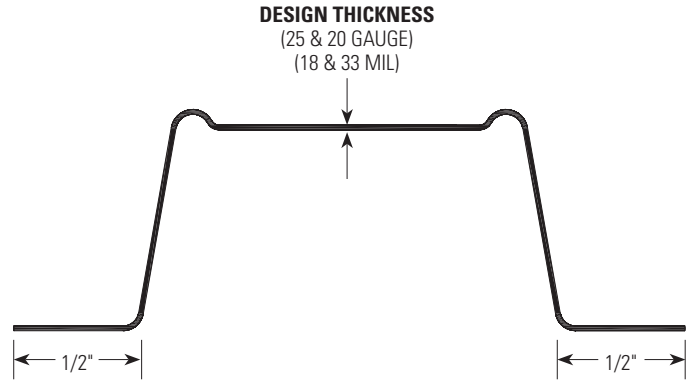
Hat-shaped Furring (F) Channels are fabricated in 7/8" height with 1/2" flanges. All CEMCO furring channels are produced from hot-dipped galvanized steel in standard G40 coating weight. G60 and G90 are available upon special request.

Steel Thickness

Thickness (mil)	Design Thickness (in) ¹	Minimum Thickness (in) ^{1,2}
18	0.0188 (0.48mm)	0.0179 (0.46mm)

Notes:

- Uncoated Steel Thickness. Thickness is for carbon sheet steel.
- Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on Section A4.3 of the AISI S100-2007.



Color Code (painted on ends):

18 mil: None

ASTM & Code Standards:

- ICC-ES ESR-3016
- ASTM A653/653M, A924/A924M, A1003/A1003M, C645, C754 (Installation)
- IBC: 2015, 2018, 2021
- CBC: 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%



Physical/Structural Properties

Section	Fy (ksi)	Design Thickness (in)	Gross Properties						Effective Properties		
			Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Ma (ft-lb)
087F125-18	33	0.0188	0.070	0.239	0.009	0.356	0.0422	0.774	0.0086	0.0160	26.41

Notes:

- Properties based on the 2007 NASPEC.
- Design thickness used for determination of properties. Minimum delivered thickness must be no less than 95% of design thickness.
- For deflection calculations, use effective Ixx. Effective Ixx is based on Procedure 1 of the NASPEC.
- Effective properties are given as the minimum value for positive or negative bending.

Furring Channels Allowable Ceiling G Spans

Section	Fy (ksi)			Uniform Load								
				4 psf Channel Spacing o.c. (in)			6 psf Channel Spacing o.c. (in)			13 psf Channel Spacing o.c. (in)		
				12	16	24	12	16	24	12	16	24
087F125-18	33	L/240	Single	5'-2"	4'-9"	4'-1"	4'-6"	4'-1"	3'-7"	3'-6"	3'-2"	2'-9"
			Multiple	6'-5"	5'-10"	5'-1"	5'-7"	5'-1"	4'-2"	4'-0"	3'-6"	2'-10"
		L/360	Single	4'-6"	4'-1"	3'-7"	4'-0"	3'-7"	3'-2"	3'-1"	2'-9"	2'-5"
			Multiple	5'-7"	5'-1"	4'-5"	4'-11"	4'-5"	3'-11"	3'-9"	3'-5"	2'-10"

Notes:

- Single spans taken as the minimum span based on moment, shear, web crippling or deflection.
- Multiple spans indicate two or more equal, continuous spans with span length measured support to support.
- Multiple spans taken as the minimum span based on moment, shear, web crippling, deflection combined bending and shear or combined and web crippling.
- Web crippling values based on 1" bearing at end and interior supports.

Technical Services

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This technical information reflects the most current information available and supersedes any and all previous publications effective March 17, 2023.

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