

## 7/8" Furring / Hat Channel (087F125-33)

33mil (20ga STR)

### Geometric Properties

Depth: 0.875 in  
Width: 1.250 in

Design Thickness: 0.0346 in  
Min. steel thickness: 0.0329 in

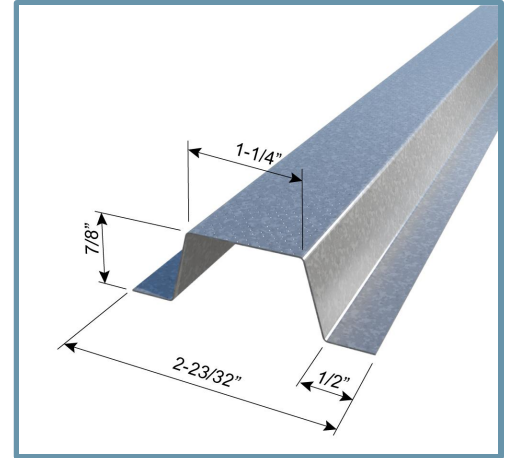
Yield stress,  $F_y$ : 33ksi  
Ultimate,  $F_u$ : 45ksi

#### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.130 in <sup>2</sup>
Member weight per foot of length	0.443 lb/ft
Moment of inertia (Ix)	0.016 in <sup>4</sup>
Radius of gyration (Rx)	0.349 in
Gross moment of inertia (Iy)	0.062 in <sup>4</sup>
Gross radius of gyration (Ry)	0.689 in

#### Effective Section Properties, Strong Axis

Moment of inertia for deflection (Ix)	0.016 in <sup>4</sup>
Section modulus (Sx)	0.034 in <sup>3</sup>
Allowable bending moment (Ma)	56.23 ft-lb
Allowable shear force (Va)	464 lb



### Used in framing applications:

- Furring for walls & ceilings
- Furring out masonry walls
- Framing for drop ceilings assemblies

### Product Data & Ordering Information:

**Coating:** CP60 (CP90 Available) **Stock length:** 10'-0" and 12'-0" long pieces **Packaging:** 10 pieces per bundle - 440 pieces per pallet **Packaging weight:** 47 lbs/bundle

### Furring / Hat Channel Allowable Ceiling Spans (Deflection: L/360)

Dead Load	4 psf			6 psf			13 psf		
	12"	16"	24"	12"	16"	24"	12"	16"	24"
Hat Spacing o.c.									
Single Span	5'-7"	5'-1"	4'-5"	4'-10"	4'-5"	3'-10"	3'-9"	3'-5"	3'-0"
Multiple Span	6'-11"	6'-3"	5'-6"	6'-0"	5'-6"	4'-9"	4'-8"	4'-3"	3'-8"

For more span tables and table notes see: [www.clarkdietrich.com/products/furring-channel-hat-channel](http://www.clarkdietrich.com/products/furring-channel-hat-channel)

### Code Approvals & Performance Standards

- **AISI S240-20** North American Standard for Cold-Formed Steel Structural Framing
  - (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section C Installation - (Referencing ASTM C1007)
- **SDS For ASTM A1003 Steel Framing Products** For Interior Framing, Exterior Framing and Clips/Accessories

**Sustainability Credits** For more details and LEED letters contact Technical Services at 888-437-3244 or visit [clarkdietrich.com/LEED](http://clarkdietrich.com/LEED).

- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

