

### F - Member (Furring or Hat Channel)

#### DESCRIPTION

Hat Channel's are fabricated in 1/2", 7/8", 1-1/2" depth, from 25 gauge to 14 gauge steel. The Web size is 1-1/4". Length - 12'-0" and 20'-0". Special lengths are available.

#### MATERIALS

Hat Channel section is fabricated from 25TI to 14 gauge hot-dipped galvanized steel.

#### COLOR CODE

Traditional	Elite
18 mil - Clear	25TI Gauge — Clear/White Stripe
24 mil - Brown	20TI Gauge — Clear/Red Stripe
27 mil - Black	30ED Gauge — Red and Blue
30 mil - Pink	33ES Gauge — Purple
33 mil - White	43ES Gauge — Brown
43 mil - Yellow	54ES Gauge — Light Blue
54 mil - Green	
68 mil - Orange	

#### ASTM & CODE STANDARDS

- IBC 2009/2012
  - AISI NASPEC 2007
  - Meets or exceeds:
    - ASTM C955 & ASTM C645
    - ASTM E119 & E90
    - ASTM A370
    - ASTM A1003
    - ASTM C1513 & A754
- Please reference Steeler ICC-ES Report ESR-2054 for further information. Available for download at [www.steeler.com/technicalinfo.php](http://www.steeler.com/technicalinfo.php)

#### MANUFACTURER CONTACT INFORMATION

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Newark Plant | 6851 Smith Ave. Newark, CA 94560 | P: 510-505-9574

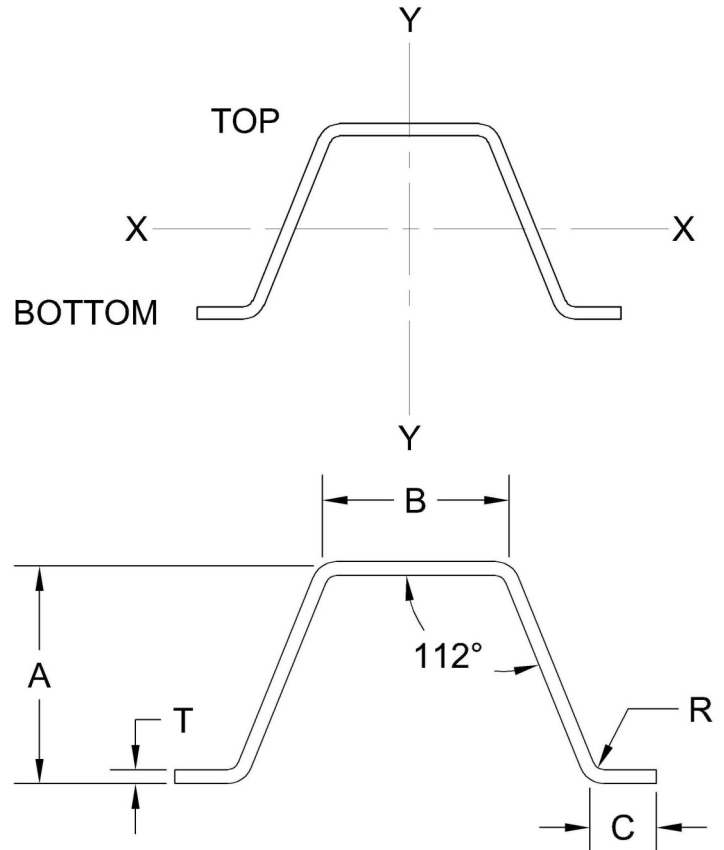


Table 1-F-Member (Furring or Hat Channel) Section Properties; Traditional Thickness Members

Member ID Designation	Dimensions in			Full Properties							Torsional			33 ksi Effective Properties					50 ksi Effective Properties				
	A	B	C	Area in <sup>2</sup>	Wt. lb/ft	I <sub>x</sub> in <sup>4</sup>	r <sub>x</sub> in	I <sub>y</sub> in <sup>4</sup>	r <sub>y</sub> in	J 10 <sup>-3</sup> in <sup>4</sup>	C <sub>w</sub> in <sup>6</sup>	r <sub>o</sub> in	Ma(+) k-in	Ma(-) in <sup>4</sup>	I <sub>xe</sub> (+) in <sup>4</sup>	S <sub>xe</sub> (t) in <sup>3</sup>	S <sub>xe</sub> (b) in <sup>3</sup>	Ma(+) k-in	Ma(-) in <sup>4</sup>	I <sub>xe</sub> (+) in <sup>4</sup>	S <sub>xe</sub> (t) in <sup>3</sup>	S <sub>xe</sub> (b) in <sup>3</sup>	
125 F050-030	0.50	1.25	0.45	0.095	0.324	0.004	0.205	0.049	0.717	0.031	0.000	0.833	0.314	0.314	0.004	0.018	0.014						
125 F050-033	0.50	1.25	0.45	0.105	0.358	0.004	0.204	0.054	0.715	0.042	0.504	0.830	0.346	0.346	0.004	0.020	0.016						
125 F050-043	0.50	1.25	0.45	0.136	0.461	0.005	0.199	0.068	0.708	0.092	0.001	0.820	0.437	0.437	0.005	0.024	0.020						
125 F050-054	0.50	1.25	0.45	0.167	0.569	0.006	0.195	0.082	0.701	0.178	0.001	0.808	0.526	0.526	0.006	0.028	0.023	0.782	0.782	0.006	0.028	0.023	
125 F087-018	0.875	1.25	0.45	0.074	0.250	0.009	0.352	0.048	0.809	0.009	0.001	1.114	0.367	0.325	0.008	0.020	0.016						
125 F087-027	0.875	1.25	0.45	0.110	0.373	0.013	0.348	0.071	0.803	0.029	0.002	1.104	0.604	0.545	0.013	0.033	0.028						
125 F087-030	0.875	1.25	0.45	0.121	0.410	0.015	0.347	0.077	0.801	0.039	0.002	1.101	0.664	0.664	0.015	0.036	0.031						
125 F087-033	0.875	1.25	0.45	0.133	0.454	0.016	0.346	0.085	0.799	0.053	0.002	1.097	0.734	0.734	0.016	0.040	0.034						
125 F087-043	0.875	1.25	0.45	0.172	0.586	0.020	0.342	0.108	0.793	0.117	0.002	1.086	0.946	0.946	0.020	0.050	0.042						
125 F087-054	0.875	1.25	0.45	0.213	0.725	0.024	0.337	0.132	0.786	0.228	0.003	1.074	1.168	1.168	0.024	0.061	0.051	1.736	1.736	0.024	0.061	0.051	
125 F087-068	0.875	1.25	0.45	0.263	0.896	0.029	0.331	0.159	0.777	0.446	0.003	1.057	1.435	1.435	0.029	0.072	0.061	2.125	2.125	0.029	0.072	0.061	
125 F150-027	1.50	1.25	0.45	0.148	0.503	0.047	0.565	0.132	0.944	0.039	0.005	1.587	1.276	1.154	0.047	0.067	0.058						
125 F150-030	1.50	1.25	0.45	0.163	0.553	0.052	0.564	0.144	0.942	0.053	0.006	1.584	1.408	1.408	0.052	0.074	0.065						
125 F150-033	1.50	1.25	0.45	0.180	0.612	0.057	0.563	0.159	0.940	0.072	0.007	1.580	1.563	1.563	0.057	0.081	0.071						
125 F150-043	1.50	1.25	0.45	0.233	0.792	0.073	0.559	0.203	0.934	0.158	0.008	1.569	2.036	2.036	0.073	0.104	0.091						
125 F150-054	1.50	1.25	0.45	0.289	0.984	0.089	0.554	0.249	0.927	0.309	0.010	1.556	2.550	2.550	0.089	0.127	0.111	3.789	3.789	0.089	0.127	0.111	
125 F150-068	1.50	1.25	0.45	0.360	1.223	0.108	0.547	0.303	0.918	0.609	0.011	1.540	3.193	3.193	0.108	0.154	0.135	4.727	4.727	0.108	0.154	0.135	

For SI: 1 inch = 25.4 mm, 1 in<sup>2</sup> = 645 mm<sup>2</sup>, 1 in<sup>3</sup> = 1.64x10<sup>4</sup> mm<sup>3</sup>, 1 in<sup>4</sup> = 4.16x10<sup>5</sup> mm<sup>4</sup>, 1 in<sup>6</sup> = 2.69x10<sup>8</sup> mm<sup>6</sup>, 1 kip-in = 113.3 N-m, 1 lb/ft = 14.6 N/m, 1 kip = 4.4 kN

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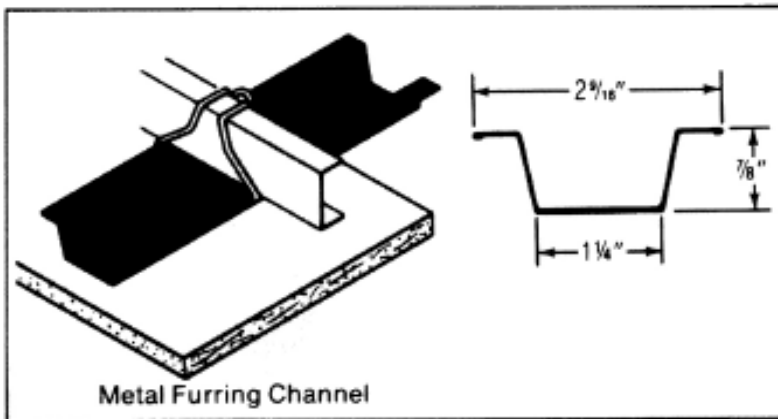
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Table 2-F-Member (Furring or Hat Channel) Section Properties; Elite Members

Member ID Designation	Dimensions in			Full Properties						Torsional			50 ksi Effective Properties					57 ksi Effective Properties					
	A	B	C	Area in <sup>2</sup>	Wt. lb/ft	I <sub>x</sub> in <sup>4</sup>	r <sub>x</sub> in	I <sub>y</sub> in <sup>4</sup>	r <sub>y</sub> in	J 10 <sup>-3</sup> in <sup>4</sup>	C <sub>w</sub> in <sup>6</sup>	r <sub>0</sub> in	Ma(+) k-in	Ma(-) in <sup>4</sup>	Ixe(+) in <sup>4</sup>	Sxe(t) in <sup>3</sup>	Sxe(b) in <sup>3</sup>	Ma(+) k-in	Ma(-) in <sup>4</sup>	Ixe(+) in <sup>4</sup>	Sxe(t) in <sup>3</sup>	Sxe(b) in <sup>3</sup>	
125 F050-024	0.500	1.25	0.45	0.076	0.259	0.0033	0.209	0.0397	0.721	0.0155	0.0004	0.842	0.351	0.308	0.0031	0.013	0.010						
125 F087-024	0.875	1.25	0.45	0.096	0.327	0.0119	0.351	0.0625	0.806	0.0196	0.0014	1.110	0.726	0.656	0.0111	0.026	0.022						
125 F150-024	1.500	1.25	0.45	0.129	0.440	0.0415	0.567	0.1158	0.946	0.0263	0.0048	1.591	1.516	1.410	0.0391	0.054	0.047						
125 F050-30ED	0.500	1.25	0.45	0.073	0.247	0.0032	0.209	0.0379	0.722	0.0134	0.0004	0.843						0.379	0.320	0.0029	0.012	0.009	
125 F087-30ED	0.875	1.25	0.45	0.092	0.312	0.0113	0.351	0.0596	0.807	0.0169	0.0014	1.111						0.781	0.686	0.0102	0.024	0.020	
125 F150-30ED	1.500	1.25	0.45	0.123	0.419	0.0396	0.567	0.1104	0.947	0.0227	0.0046	1.592						1.628	1.486	0.0362	0.049	0.044	
125 F050-33ES	0.500	1.25	0.45	0.091	0.308	0.0039	0.208	0.0469	0.719	0.0263	0.0005	0.838						0.474	0.433	0.0038	0.016	0.013	
125 F087-33ES	0.875	1.25	0.45	0.115	0.390	0.0140	0.350	0.0740	0.804	0.0332	0.0017	1.107						0.988	0.919	0.0135	0.033	0.027	
125 F150-33ES	1.500	1.25	0.45	0.154	0.524	0.0493	0.565	0.1372	0.944	0.0447	0.0057	1.587						2.070	1.963	0.0476	0.066	0.058	

For SI: 1 inch = 25.4 mm, 1 in<sup>2</sup> = 645 mm<sup>2</sup>, 1 in<sup>3</sup> = 1.64x10<sup>4</sup> mm<sup>3</sup>, 1 in<sup>4</sup> = 4.16x10<sup>5</sup> mm<sup>4</sup>, 1 in<sup>6</sup> = 2.69x10<sup>6</sup> mm<sup>6</sup>, 1 kip-in = 113.3 N-m, 1 lb/ft = 14.6 N/m, 1 kip = 4.4 kN



#### STEELEER LEED® INFORMATION

**LEED Credit MR 2:** Steeler framing products are manufactured from cold-formed steel (CFS). CFS is 100% recyclable and therefore contributes significantly to LEED Credit MR 2. The specific contribution amounts will vary depending on the project and construction decisions.

**LEED Credit MR 4:** Steeler framing products contain a minimum of 26% post-consumer and 7% pre-consumer recycled steel content for a minimum of 33% recyclable. Recycled content of materials contributes to LEED Credits MR 4. If notified in advance, Steeler can order steel containing higher percentages of recycled content to meet your specific project needs. Contact Steeler technical services prior to ordering so we can help support your project goals.

