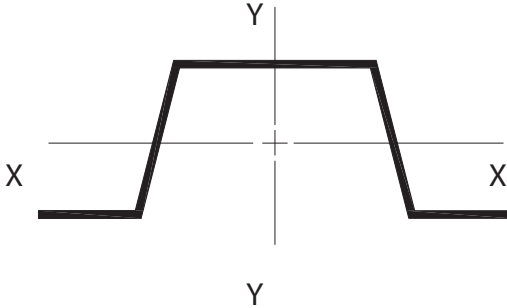


**SMARTFRAME<sup>®</sup>**  
**FRAMING ACCESSORY**  
**PRODUCT CATALOG**

# Furring Channel (F-Sections)

Furring (HAT) Channel Section Properties												
Furring Member	Design Thickness (in)	Mils	Gross Properties					Effective Properties 33ksi				
			Area (in <sup>2</sup> )	Weight (lbs/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)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	
087F125-15	0.0157	15	0.059	0.200	0.008	0.358	0.030	0.704	0.007	0.012	0.305	
087F125-18	0.0188	18	0.070	0.239	0.009	0.356	0.035	0.710	0.009	0.016	0.032	
087F125-23	0.0245	23	0.091	0.309	0.011	0.355	0.046	0.710	0.011	0.022	0.549	
087F125-27	0.0283	27	0.105	0.036	0.013	0.353	0.053	0.710	0.013	0.027	0.537	
087F125-30	0.0312	30	0.115	0.391	0.014	0.353	0.058	0.710	0.014	0.031	0.606	
087F125-33	0.0346	33	0.127	0.432	0.016	0.351	0.064	0.710	0.016	0.034	0.665	
087F125-43	0.0451	43	0.162	0.550	0.020	0.348	0.082	0.711	0.020	0.042	0.830	
150F125-15	0.0157	15	0.079	0.267	0.026	0.576	0.039	0.700	0.024	0.026	0.658	
150F125-18	0.0188	18	0.094	0.320	0.031	0.575	0.047	0.705	0.030	0.034	0.679	
150F125-23	0.0245	23	0.122	0.414	0.040	0.573	0.061	0.705	0.040	0.046	1.147	
150F125-27	0.0283	27	0.140	0.477	0.046	0.572	0.070	0.705	0.046	0.057	1.125	
150F125-30	0.0312	30	0.154	0.525	0.050	0.571	0.077	0.705	0.050	0.064	1.263	
150F125-33	0.0346	33	0.171	0.581	0.055	0.570	0.085	0.705	0.055	0.070	1.391	
150F125-43	0.0451	43	0.219	0.745	0.070	0.565	0.109	0.705	0.070	0.089	1.755	
150F125-54	0.0566	54	0.278	0.946	0.087	0.558	0.145	0.722	0.087	0.122	2.755	



- Table Notes:**
1. If present, hems and offsets in flanges are ignored.
  2. Effective properties are given as the minimum value for positive or negative bending.

Furring Channel Allowable Ceiling Spans (F-Sections) - L/240											
Furring Member	F <sub>y</sub> (ksi)	Span Type	Uniform Load								
			4 psf			6 psf			13 psf *		
			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
			12	16	24	12	16	24	12	16	24
087F125-15	50	Single	4'-10"	4'-5"	3'-10"	4'-2"	3'-10"	3'-4"	3'-3"	2'-11"	2'-7"
		Multiple	5'-11"	5'-5"	4'-9"	5'-2"	4'-9"	4'-2"	4'-0"	3'-8"	3'-1"
087F125-18	33	Single	5'-2"	4'-9"	4'-1"	4'-6"	4'-1"	3'-7"	3'-6"	3'-2"	2'-9"
		Multiple	6'-5"	5'-10"	4'-5"	5'-7"	5'-1"	4'-2"	4'-0"	3'-6"	2'-10"
087F125-23	50	Single	5'-9"	5'-2"	4'-7"	5'-0"	4'-7"	4'-0"	3'-10"	3'-6"	3'-1"
		Multiple	7'-1"	6'-5"	5'-7"	6'-2"	5'-7"	4'-11"	4'-9"	4'-4"	3'-10"
087F125-27	33	Single	6'-0"	5'-5"	4'-9"	5'-3"	4'-9"	4'-2"	4'-0"	3'-8"	3'-2"
		Multiple	7'-5"	6'-9"	5'-10"	6'-6"	5'-10"	5'-2"	5'-0"	4'-6"	3'-8"
087F125-30	33	Single	6'-2"	5'-7"	4'-11"	5'-5"	4'-11"	4'-3"	4'-2"	3'-9"	3'-4"
		Multiple	7'-7"	6'-11"	6'-1"	6'-8"	6'-1"	5'-3"	5'-2"	4'-8"	3'-11"
087F125-33	33	Single	6'-4"	5'-9"	5'-1"	5'-7"	5'-1"	4'-5"	4'-4"	3'-11"	3'-5"
		Multiple	7'-10"	7'-2"	6'-3"	6'-10"	6'-3"	5'-5"	5'-4"	4'-10"	4'-1"
087F125-43	33	Single	6'-10"	6'-3"	5'-5"	6'-0"	5'-5"	4'-9"	4'-7"	4'-2"	3'-8"
		Multiple	8'-6"	7'-8"	6'-9"	7'-5"	6'-9"	5'-10"	5'-9"	5'-2"	4'-6"
150F125-15	50	Single	7'-4"	6'-8"	5'-10"	6'-5"	5'-10"	5'-1"	4'-11"	4'-6"	3'-11"
		Multiple	9'-1"	8'-3"	7'-2"	7'-11"	7'-2"	6'-3"	6'-1"	5'-1"	3'-11"
150F125-18	33	Single	7'-11"	7'-2"	6'-3"	6'-11"	6'-3"	5'-6"	5'-4"	4'-10"	4'-2"
		Multiple	9'-9"	8'-10"	7'-6"	8'-6"	7'-6"	6'-0"	5'-8"	4'-9"	3'-8"
150F125-23	50	Single	8'-8"	7'-11"	6'-11"	7'-7"	6'-11"	6'-0"	5'-10"	5'-4"	4'-8"
		Multiple	10'-9"	9'-9"	8'-6"	9'-5"	8'-6"	7'-5"	7'-3"	6'-7"	5'-9"
150F125-27	33	Single	9'-1"	8'-3"	7'-3"	7'-11"	7'-3"	6'-4"	6'-2"	5'-7"	4'-10"
		Multiple	11'-3"	10'-3"	8'-11"	9'-10"	8'-11"	7'-10"	7'-7"	6'-7"	5'-4"
150F125-30	33	Single	9'-5"	8'-6"	7'-5"	8'-2"	7'-5"	6'-6"	6'-4"	5'-9"	5'-0"
		Multiple	11'-7"	10'-6"	9'-3"	10'-2"	9'-2"	8'-0"	7'-10"	7'-0"	5'-8"
150F125-33	33	Single	9'-8"	8'-10"	7'-8"	8'-6"	7'-8"	6'-9"	6'-6"	5'-11"	5'-2"
		Multiple	12'-0"	10'-11"	9'-6"	10'-6"	9'-6"	8'-4"	8'-1"	7'-4"	6'-0"
150F125-43	33	Single	10'-6"	9'-6"	8'-4"	9'-2"	8'-4"	7'-3"	7'-1"	6'-5"	5'-7"
		Multiple	13'-0"	11'-9"	10'-3"	11'-4"	10'-3"	9'-0"	8'-9"	8'-0"	6'-8"

**Furring Channel Allowable Ceiling Spans (F-Sections) - L/360**

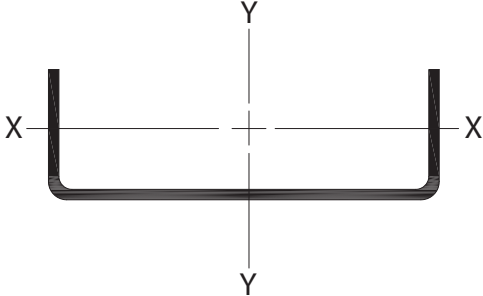
Furring Member	Fy (ksi)	Span Type	Uniform Load								
			4 psf			6 psf			13 psf *		
			Spacing (in) on center			Spacing (in) on center			Spacing (in) on center		
			12	16	24	12	16	24	12	16	24
087F125-15	50	Single	4'-2"	3'-10"	3'-4"	3'-8"	3'-4"	2'-11"	2'-10"	2'-7"	2'-3"
		Multiple	5'-2"	4'-9"	4'-2"	4'-7"	4'-2"	3'-7"	3'-6"	3'-2"	2'-9"
087F125-18	33	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"
087F125-23	50	Single	5'-0"	4'-7"	4'-0"	4'-4"	4'-0"	3'-6"	3'-5"	3'-1"	2'-8"
		Multiple	6'-2"	5'-7"	4'-11"	5'-5"	4'-11"	4'-3"	4'-2"	3'-10"	3'-4"
087F125-27	33	Single	5'-3"	4'-9"	4'-2"	4'-7"	4'-2"	3'-7"	3'-6"	3'-2"	2'-10"
		Multiple	6'-6"	5'-10"	5'-2"	5'-8"	5'-2"	4'-6"	4'-4"	4'-0"	3'-6"
087F125-30	33	Single	5'-5"	4'-11"	4'-3"	4'-8"	4'-3"	3'-9"	3'-8"	3'-4"	2'-11"
		Multiple	6'-8"	6'-1"	5'-3"	5'-10"	5'-3"	4'-7"	4'-6"	4'-1"	3'-7"
087F125-33	33	Single	5'-7"	5'-1"	4'-5"	4'-10"	4'-5"	3'-10"	3'-9"	3'-5"	3'-0"
		Multiple	6'-10"	6'-3"	5'-5"	6'-0"	5'-5"	4'-9"	4'-8"	4'-3"	3'-8"
087F125-43	33	Single	6'-0"	5'-5"	4'-9"	5'-3"	4'-9"	4'-2"	4'-0"	3'-8"	3'-2"
		Multiple	7'-5"	6'-9"	5'-10"	6'-6"	5'-10"	5'-2"	5'-0"	4'-6"	4'-0"
150F125-15	50	Single	6'-5"	5'-10"	5'-1"	5'-7"	5'-1"	4'-5"	4'-4"	3'-11"	3'-5"
		Multiple	7'-11"	7'-2"	6'-3"	6'-11"	6'-3"	5'-6"	5'-4"	4'-10"	3'-11"
150F125-18	33	Single	6'-11"	6'-3"	5'-6"	6'-0"	5'-6"	4'-9"	4'-8"	4'-3"	3'-8"
		Multiple	8'-6"	7'-9"	6'-9"	7'-5"	6'-9"	5'-11"	5'-8"	4'-9"	3'-8"
150F125-23	50	Single	7'-7"	6'-11"	6'-0"	6'-8"	6'-0"	5'-3"	5'-1"	4'-8"	4'-1"
		Multiple	9'-5"	8'-6"	7'-5"	8'-2"	7'-5"	6'-6"	6'-4"	5'-9"	5'-0"
150F125-27	33	Single	7'-11"	7'-3"	6'-4"	6'-11"	6'-4"	5'-6"	5'-4"	4'-10"	4'-3"
		Multiple	9'-10"	8'-11"	7'-10"	8'-7"	7'-10"	6'-10"	6'-8"	6'-0"	5'-3"
150F125-30	33	Single	8'-2"	7'-5"	6'-6"	7'-2"	6'-6"	5'-8"	5'-6"	5'-0"	4'-5"
		Multiple	10'-2"	9'-2"	8'-0"	8'-10"	8'-0"	7'-0"	6'-10"	6'-3"	5'-5"
150F125-33	33	Single	8'-6"	7'-8"	6'-9"	7'-5"	6'-9"	5'-10"	5'-9"	5'-2"	4'-6"
		Multiple	10'-6"	9'-6"	8'-4"	9'-2"	8'-4"	7'-3"	7'-1"	6'-5"	5'-7"
150F125-43	33	Single	9'-2"	8'-4"	7'-3"	8'-0"	7'-3"	6'-4"	6'-2"	5'-7"	4'-11"
		Multiple	11'-4"	10'-3"	9'-0"	9'-11"	9'-0"	7'-10"	7'-8"	6'-11"	6'-1"
150F125-54	33	Single	9'-10"	8'-11"	7'-9"	8'-7"	7'-9"	6'-10"	6'-8"	6'-0"	5'-3"
		Multiple	12'-2"	11'-0"	9'-8"	10'-7"	9'-8"	8'-5"	8'-2"	7'-5"	6'-6"

**Table Notes:**

1. Single spans are the minimum span based on moment, shear, web crippling, or deflection.
2. Multiple spans indicate two or more equal and continuous spans with span length measured support to support.
3. Web crippling check is based on 1" of bearing at end and interior supports.
4. Multiple spans are the minimum span based on moment, shear, web crippling, deflection, combined bending and shear, or combined bending and web crippling.
5. \*Loads that exceed 10psf limit require an approved CP60 coating.
6. Notes are for both L/240 and L/360 tables.

# U Channels (U-Sections)

U Channel Section Properties												
U Member	Design Thickness (in)	Mils	Gross Properties					Effective Properties 33ksi				
			Area (in <sup>2</sup> )	Weight (lbs/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)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Va (lb)
75U050-54	0.0566	54	0.087	0.30	0.007	0.288	0.002	0.155	0.007	0.019	0.45	315
150U050-54	0.0566	54	0.129	0.44	0.039	0.547	0.003	0.144	0.039	0.052	1.22	840
200U050-54	0.0566	54	0.157	0.54	0.079	0.709	0.003	0.136	0.079	0.079	1.87	1190
250U050-54	0.0566	54	0.186	0.63	0.139	0.866	0.003	0.128	0.139	0.111	2.64	1540



**Table Notes:**

1. Inside bend radius taken as 3/32"

## U Channel Allowable Ceiling Spans (U-Sections) - L/240

Stud Member	F <sub>y</sub> (ksi)	Design Thickness (in)	4 psf					6 psf					13 psf *					15 psf *				
			Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	33	Single	3'-11"	3'-5"	3'-1"	2'-10"	2'-8"	3'-5"	3'-0"	2'-8"	2'-6"	2'-4"	2'-7"	2'-4"	2'-1"	1'-11"	1'-9"	2'-6"	2'-2"	2'-0"	1'-10"	1'-8"
		Multiple	4'-10"	4'-2"	3'-10"	3'-7"	3'-4"	4'-2"	3'-8"	3'-4"	3'-1"	2'-10"	3'-3"	2'-9"	2'-4"	2'-1"	1'-11"	3'-1"	2'-7"	2'-0"	2'-0"	1'-9"
150U050-54	33	Single	5'-6"	4'-10"	4'-5"	4'-1"	3'-10"	4'-10"	4'-3"	3'-10"	3'-7"	3'-5"	3'-9"	3'-3"	3'-0"	2'-9"	2'-7"	3'-7"	3'-2"	2'-10"	2'-7"	2'-5"
		Multiple	7'-1"	6'-2"	5'-8"	5'-3"	4'-11"	6'-2"	5'-5"	4'-11"	4'-7"	4'-4"	4'-10"	4'-2"	3'-9"	3'-4"	3'-0"	4'-7"	4'-0"	3'-6"	3'-1"	2'-9"
200U050-54	33	Single	5'-10"	5'-1"	4'-8"	4'-4"	4'-1"	5'-1"	4'-6"	4'-1"	3'-10"	3'-7"	4'-0"	3'-6"	3'-2"	3'-0"	2'-10"	3'-10"	3'-4"	3'-1"	2'-10"	2'-8"
		Multiple	7'-5"	6'-6"	5'-11"	5'-6"	5'-2"	6'-6"	5'-8"	5'-2"	4'-10"	4'-7"	5'-1"	4'-5"	4'-0"	3'-9"	3'-6"	4'-10"	4'-3"	3'-10"	3'-7"	3'-2"
250U050-54	33	Single	6'-1"	5'-4"	4'-10"	4'-6"	4'-3"	5'-4"	4'-8"	4'-3"	4'-0"	3'-9"	4'-2"	3'-8"	3'-4"	3'-1"	2'-11"	4'-0"	3'-6"	3'-2"	3'-0"	2'-10"
		Multiple	7'-9"	6'-9"	6'-2"	5'-9"	5'-5"	6'-9"	5'-11"	5'-5"	5'-0"	4'-9"	5'-3"	4'-7"	4'-3"	3'-11"	3'-9"	5'-0"	4'-5"	4'-0"	3'-9"	3'-7"

## U Channel Allowable Ceiling Spans (U-Sections) - L/360

Stud Member	F <sub>y</sub> (ksi)	Design Thickness (in)	4 psf					6 psf					13 psf *					15 psf *				
			Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center					Channel Spacing (in) on center				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	33	Single	3'-5"	3'-0"	2'-8"	2'-6"	2'-4"	3'-0"	2'-7"	2'-4"	2'-2"	2'-1"	2'-4"	2'-0"	1'-10"	1'-8"	1'-7"	2'-2"	1'-11"	1'-9"	1'-7"	1'-6"
		Multiple	4'-2"	3'-8"	3'-4"	3'-1"	2'-11"	3'-8"	3'-2"	2'-11"	2'-8"	2'-7"	2'-10"	2'-6"	2'-3"	2'-1"	1'-11"	2'-8"	2'-4"	2'-2"	2'-0"	1'-9"
150U050-54	33	Single	5'-6"	4'-10"	4'-5"	4'-1"	3'-10"	4'-10"	4'-3"	3'-10"	3'-7"	3'-5"	3'-9"	3'-3"	3'-0"	2'-9"	2'-7"	3'-7"	3'-2"	2'-10"	2'-7"	2'-5"
		Multiple	7'-1"	6'-2"	5'-8"	5'-3"	4'-11"	6'-2"	5'-5"	4'-11"	4'-7"	4'-4"	4'-10"	4'-2"	3'-9"	3'-4"	3'-0"	4'-7"	4'-0"	3'-6"	3'-1"	2'-9"
200U050-54	33	Single	5'-10"	5'-1"	4'-8"	4'-4"	4'-1"	5'-1"	4'-6"	4'-1"	3'-10"	3'-7"	4'-0"	3'-6"	3'-2"	3'-0"	2'-10"	3'-10"	3'-4"	3'-1"	2'-10"	2'-8"
		Multiple	7'-5"	6'-6"	5'-11"	5'-6"	5'-2"	6'-6"	5'-8"	5'-2"	4'-10"	4'-7"	5'-1"	4'-5"	4'-0"	3'-9"	3'-6"	4'-10"	4'-3"	3'-10"	3'-7"	3'-2"
250U050-54	33	Single	6'-1"	5'-4"	4'-10"	4'-6"	4'-3"	5'-4"	4'-8"	4'-3"	4'-0"	3'-9"	4'-2"	3'-8"	3'-4"	3'-1"	2'-11"	4'-0"	3'-6"	3'-2"	3'-0"	2'-10"
		Multiple	7'-9"	6'-9"	6'-2"	5'-9"	5'-5"	6'-9"	5'-11"	5'-5"	5'-0"	4'-9"	5'-3"	4'-7"	4'-3"	3'-11"	3'-9"	5'-0"	4'-5"	4'-0"	3'-9"	3'-7"

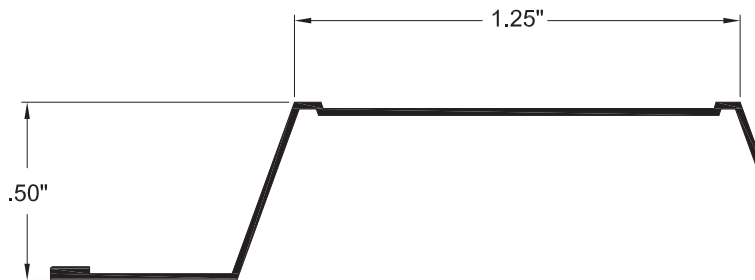
**Table Notes:**

- Multiple span indicate two or more equal spans with channel continuous over interior supports.
- Listed spans are based on unbraced compression flanges.
- Web crippling check is based on 3/4" bearing at end and interior supports. No bearing stiffeners required.
- \*Loads that exceed 10psf limit require an approved CP60 coating.

## Resilient Channes (RC-1, RC-XL, RC-2)

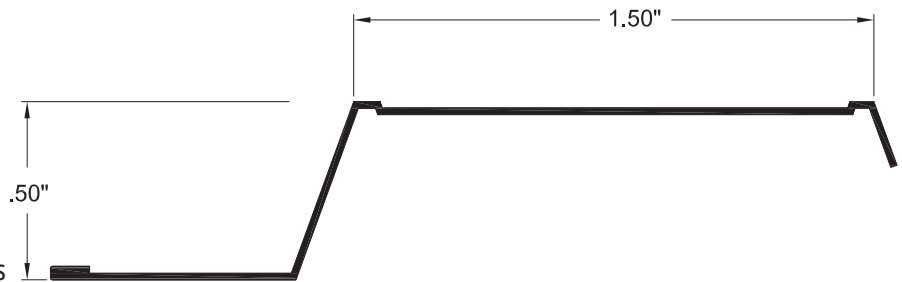
### RC-1

Product #SFRC1-25G  
 Product #SFRC1-20G  
 RC-1 is an economical solution for reducing sound transmission.  
 Available in 25 & 20 Gauge



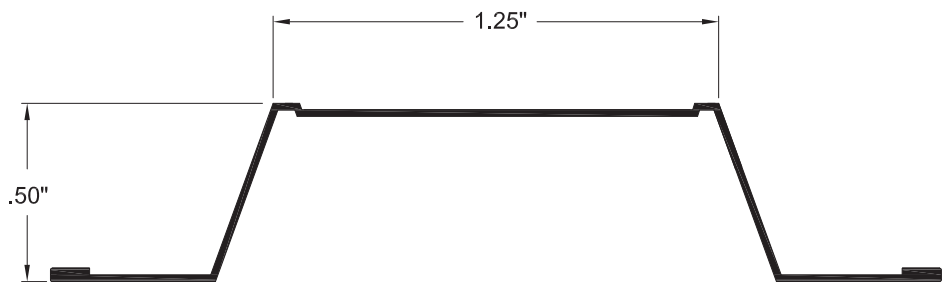
### RC-XL

Product #SFRC-XL  
 RC-XL features a wider top flange and heavier mil thickness.  
 0.0220 Design Thickness / 0.0205" Min. Thickness



### RC-2

Product #SFRC2-25G  
 Product #SFRC2-20G  
 RC-2 is an economical solution for reducing sound transmission.  
 Available in 25 & 20 Gauge



### Notes:

1. Resilient Channels are used over wood or steel framing for walls and ceilings.
2. RC-1 profiles offer reduced contact with framing members to reduce sound transmission.
3. Resilient Channel is produced to meet or exceed ASTM C645.
4. Galvanized sheet steel meets or exceeds requirements of ASTM A1003.
5. For installation and storage information refer to ASTM C754.
6. Refer to UL.com or the Gypsum Association Fire and Sound Design Manual for STC Rating requirements.

## Accessories

### Long Angle

Available sizes:	
Leg Sizes:	1", 1.5", 2", 3", 4", 5", 6" (any requested)
Mil Thickness:	18, 30, 33, 43, 54, 68, 97
Coatings:	G40, CP60, CP90
Yield Stress:	33ksi, 50ksi
Lengths:	10'-0" Standard, (other lengths avail)



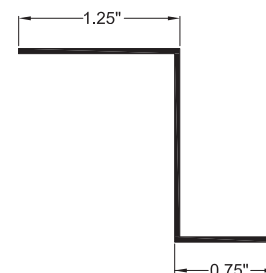
### Flat Strap

Available sizes:	
Width Sizes:	1", 1.5", 2", 3", 4", 5", 6" (any requested)
Mil Thickness:	18, 30, 33, 43, 54, 68, 97
Coatings:	G40, CP60, CP90
Yield Stress:	33ksi, 50ksi
Lengths:	10'-0" Standard, (other lengths avail)



### RC-2

Available sizes:	
Web Sizes:	1", 1.5", 2", 3", 4", 5", 6" (any requested)
Mil Thickness:	18, 30, 33, 43, 54, 68, 97
Coatings:	G40, CP60, CP90
Yield Stress:	33ksi, 50ksi
Lengths:	10'-0" Standard, (other lengths avail)



### Table Notes:

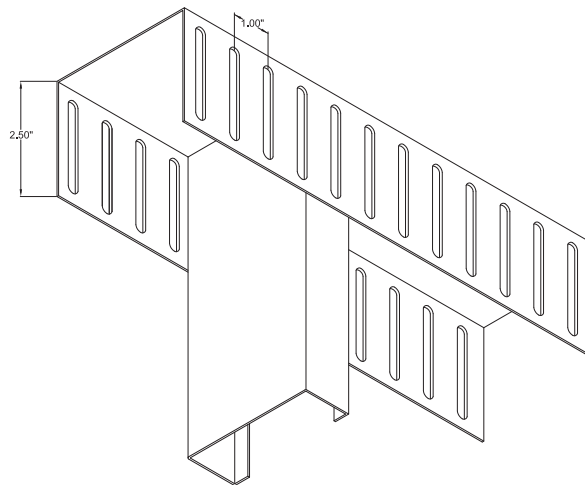
1. Long Angle, Flat Strap and Z-Furring have many uses in wood or steel framing projects.
2. Galvanized sheet steel meets or exceeds requirements of ASTM A1003.
3. Refer to CRACO's SmartSpec for additional information for these products.

Slotted Slip Track

Slotted Slip Track									
Gauge	Mils	Design Thickness (in)	Web Hgt. (in.)	Pieces Per Skid	Gauge	Mils	Design Thickness (in)	Web Hgt. (in.)	Pieces Per Skid
20	33	0.0346	2.500	100	18	43	0.451	2.500	100
			3.625					3.625	
			4.000					4.000	
			6.000					6.000	
			8.000					8.000	
P = 166 lbs.					P = 196 lbs.				
Gauge	Mils	Design Thickness (in)	Web Hgt. (in.)	Pieces Per Skid	Gauge	Mils	Design Thickness (in)	Web Hgt. (in.)	Pieces Per Skid
20	33	0.0346	2.500	100	18	43	0.451	2.500	100
			3.625					3.625	
			4.000					4.000	
			6.000					6.000	
			8.000					8.000	
			10.000					10.000	
P = 314 lbs.					P = 314 lbs.				

Notes:

1. Slotted Slotted Track is manufactured by Metal-Lite
2. Slotted Slip Track is a UL listed head of wall system.
3. Available in 10'-0" standard stock length.





## Corporate Offices & Manufacturing Facility

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