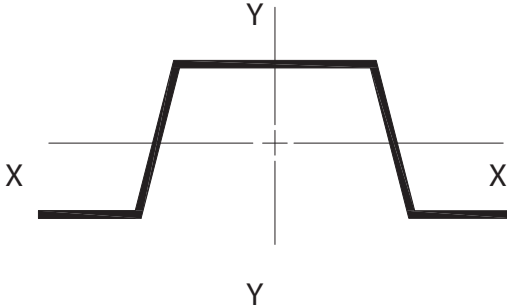


**SMARTFRAME<sup>®</sup>**  
**FRAMING ACCESSORY**  
**PRODUCT CATALOG**

# 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**

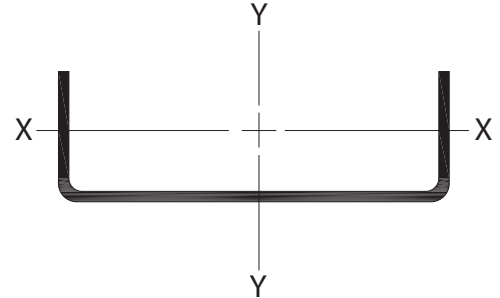
| Furring Member | Fy (ksi) | Span Type | Uniform Load           |        |        |                        |        |        |                        |        |        |
|----------------|----------|-----------|------------------------|--------|--------|------------------------|--------|--------|------------------------|--------|--------|
|                |          |           | 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"  |

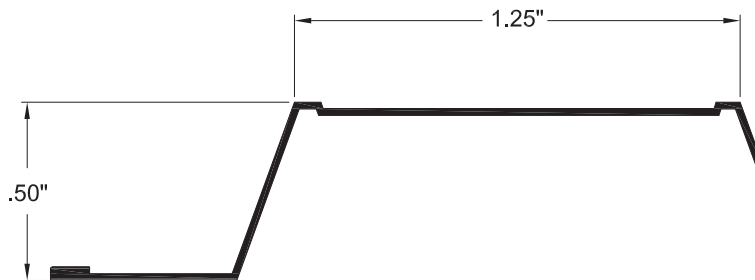
**Table Notes:**

- 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)

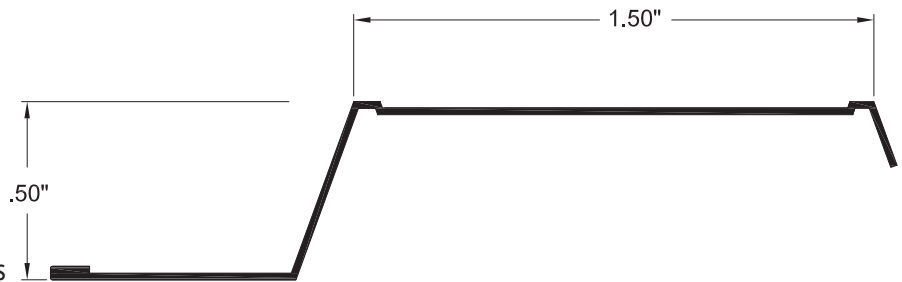
### RC-1

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



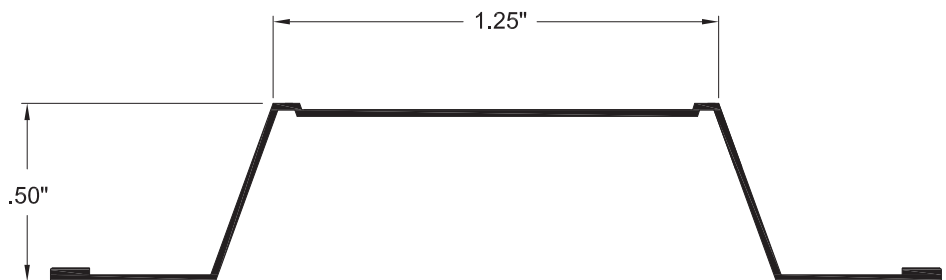
### RC-XL

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.

## U Channels (U-Sections)

### Long Angle

Available sizes:  
 Leg Sizes: 1", 1.5", 2", 3", 4", 5", 6" (any requested)  
 Mil Thickness: 15, 18, 19, 23, 30, 33, 43, 54, 68, 97  
 Coatings: G40, CP60, CP90  
 Yield Stress: 33ksi, 50ksi  
 Lengths: 10'-0" Standard, (any requested)



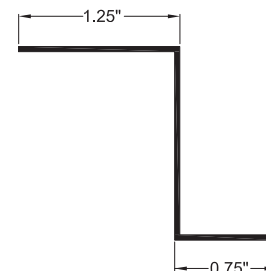
### Flat Strap

Available sizes:  
 Width Sizes: 1", 1.5", 2", 3", 4", 5", 6" (any requested)  
 Mil Thickness: 15, 18, 19, 23, 30, 33, 43, 54, 68, 97  
 Coatings: G40, CP60, CP90  
 Yield Stress: 33ksi, 50ksi  
 Lengths: 10'-0" Standard, (any requested)



### RC-2

Available sizes:  
 Web Sizes: 1", 1.5", 2", 3", 4", 5", 6" (any requested)  
 Mil Thickness: 15, 18, 19, 23, 30, 33, 43, 54, 68, 97  
 Coatings: G40, CP60, CP90  
 Yield Stress: 33ksi, 50ksi  
 Lengths: 10'-0" Standard, (any requested)



### Table Notes:

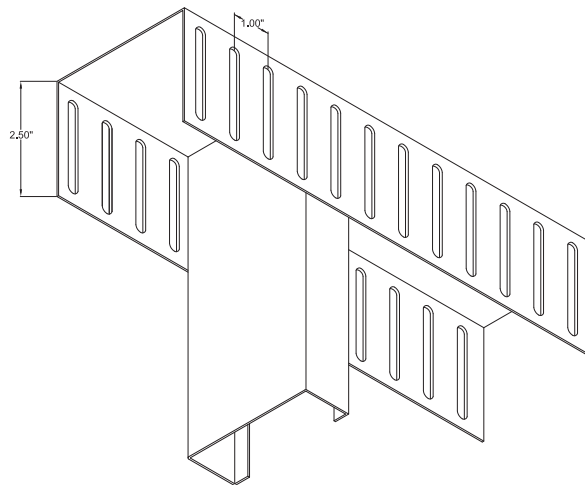
1. Long Angle, Flat Strap and Z-Furring have many uses in wood or steel framing projects.
2. Galvanized sheet steel meets or exceeds requirements of ASTM A1003.
3. Refer to CRACO's SmartSpec for additional information for these products.

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

1122 Johnson Road  
York, SC 29745

[www.cracometals.com](http://www.cracometals.com)  
[smartframe@cracometals.com](mailto:smartframe@cracometals.com)