



Product Specification and Submittal Form

CRC (Cold-Rolled Channel)

MANUFACTURER

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DESCRIPTION

CRC's (Cold Rolled Channels) are fabricated in 3/4", 1 1/2", 2" and 2 1/2" widths, from 18 and 16 (50ksi) gauge steel. The Flange size is 1/2". Length - 10'-0" and 20'-0". Special lengths are available.

COLOR CODE

18 GA - Yellow
16 GA - Green
Painted on ends.

MATERIALS

CRC (Cold Rolled Channel) section is fabricated from **18 and 16 (50ksi) gauge** hot dipped galvanized steel conforming to ASTM A653 or equal.

RECOGNITION

ICC-ES REPORT ESR-2054

ASTM & Code Standards

- AISI, North American Specification for the Design of Cold-Formed Steel Structural Members 2001 Edition with 2004 Supplement
- ASTM A370, Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- ASTM A1003, Standard Specification for Sheet Steel, Carbon, Metallic and Non-Metallic Coating for Cold-Formed Framing Members.
- Steeler's structural framing comply with 2006 International Building Code (IBC- 2006)
- ASTM C955, Standard Specification for Structural Steel Framing Members.
- ASTM C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- ASTM C1513, Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections.

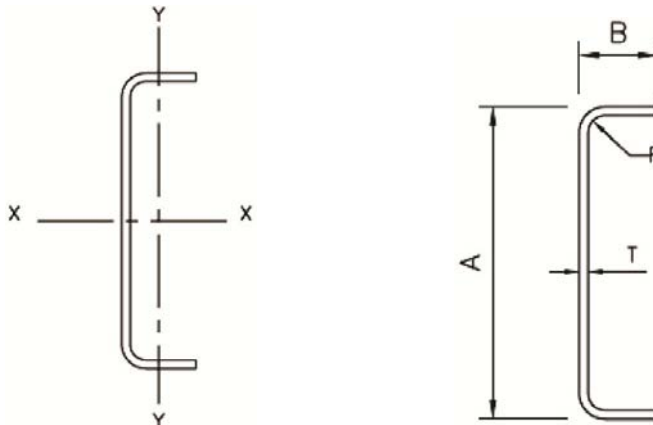


TABLE 3-U-MEMBER (COLD ROLLED CHANNEL) SECTION PROPERTIES

| MEMBER ID DESIGNATION | Dimensions, in | | Full Properties | | | | | | Torsional Properties | | | | 33 ksi Effective Properties | | | | 50 ksi Effective Properties | | | |
|-----------------------|----------------|------|----------------------|-----------|--------------------------------|-------------------|--------------------------------|-------------------|------------------------------------|--------------------------------|-------------------|-------------------|-----------------------------|---------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------------|---------------------------------|--------------------------------|
| | A | B | Area in ² | Wt. lb/ft | I _x in ⁴ | r _x in | I _y in ⁴ | r _y in | J 10 ⁻³ in ⁴ | C _w in ⁶ | r _o in | X _o in | M _a k-in | I _{xe} in ⁴ | S _{xe} in ³ | A _e in ² | M _a k-in | I _{xe} in ⁴ | S _{xe} in ³ | A _e in ² |
| 075 U050-030 | 0.75 | 0.50 | 0.0501 | 0.1705 | 0.0045 | 0.3004 | 0.0013 | 0.160 | 0.0163 | 0.00010 | 0.4869 | -0.3481 | 0.250 | 0.0045 | 0.0121 | 0.0501 | | | | |
| 075 U050-033 | 0.75 | 0.50 | 0.0554 | 0.1883 | 0.0050 | 0.2991 | 0.0014 | 0.160 | 0.0221 | 0.00011 | 0.4852 | -0.3470 | 0.295 | 0.0050 | 0.0132 | 0.0554 | | | | |
| 075 U050-043 | 0.75 | 0.50 | 0.0712 | 0.2422 | 0.0062 | 0.2949 | 0.0018 | 0.158 | 0.0483 | 0.00014 | 0.4797 | -0.3437 | 0.378 | 0.0062 | 0.0165 | 0.0712 | | | | |
| 075 U050-054 | 0.75 | 0.50 | 0.0871 | 0.2963 | 0.0073 | 0.2893 | 0.0021 | 0.156 | 0.0931 | 0.00015 | 0.4743 | -0.3418 | 0.459 | 0.0073 | 0.0195 | 0.0871 | 0.680 | 0.0073 | 0.0195 | 0.0871 |
| 150 U050-030 | 1.50 | 0.50 | 0.0735 | 0.2500 | 0.0231 | 0.5609 | 0.0016 | 0.149 | 0.0239 | 0.00058 | 0.6393 | -0.2680 | 0.625 | 0.0231 | 0.0309 | 0.0720 | | | | |
| 150 U050-033 | 1.50 | 0.50 | 0.0813 | 0.2765 | 0.0255 | 0.5596 | 0.0018 | 0.149 | 0.0325 | 0.00064 | 0.6375 | -0.2670 | 0.758 | 0.0255 | 0.0340 | 0.0813 | | | | |
| 150 U050-043 | 1.50 | 0.50 | 0.1051 | 0.3572 | 0.0324 | 0.5553 | 0.0023 | 0.147 | 0.0712 | 0.00079 | 0.6320 | -0.2637 | 0.989 | 0.0324 | 0.0432 | 0.1051 | | | | |
| 150 U050-054 | 1.50 | 0.50 | 0.1296 | 0.4406 | 0.0390 | 0.5489 | 0.0027 | 0.146 | 0.1384 | 0.00091 | 0.6254 | -0.2620 | 1.230 | 0.0390 | 0.0521 | 0.1296 | 1.821 | 0.0390 | 0.0521 | 0.1296 |
| 200 U050-030 | 2.00 | 0.50 | 0.0891 | 0.3031 | 0.0466 | 0.7233 | 0.0018 | 0.141 | 0.0289 | 0.00118 | 0.7728 | -0.2331 | 0.940 | 0.0466 | 0.0466 | 0.0768 | | | | |
| 200 U050-033 | 2.00 | 0.50 | 0.0986 | 0.3353 | 0.0514 | 0.7219 | 0.0019 | 0.140 | 0.0394 | 0.00129 | 0.7711 | -0.2321 | 1.148 | 0.0514 | 0.0514 | 0.0886 | | | | |
| 200 U050-043 | 2.00 | 0.50 | 0.1276 | 0.4339 | 0.0657 | 0.7175 | 0.0025 | 0.139 | 0.0865 | 0.00161 | 0.7658 | -0.2289 | 1.504 | 0.0657 | 0.0657 | 0.1266 | | | | |
| 200 U050-054 | 2.00 | 0.50 | 0.1579 | 0.5368 | 0.0797 | 0.7106 | 0.0030 | 0.137 | 0.1686 | 0.00189 | 0.7585 | -0.2272 | 1.883 | 0.0797 | 0.0797 | 0.1579 | 2.789 | 0.0797 | 0.0797 | 0.1579 |
| 250 U050-030 | 2.50 | 0.50 | 0.1047 | 0.3561 | 0.0813 | 0.8809 | 0.0019 | 0.133 | 0.0340 | 0.00203 | 0.9145 | -0.2065 | 1.307 | 0.0813 | 0.0650 | 0.0794 | | | | |
| 250 U050-033 | 2.50 | 0.50 | 0.1159 | 0.3941 | 0.0897 | 0.8794 | 0.0020 | 0.133 | 0.0463 | 0.00222 | 0.9128 | -0.2055 | 1.602 | 0.0897 | 0.0717 | 0.0922 | | | | |
| 250 U050-043 | 2.50 | 0.50 | 0.1502 | 0.5105 | 0.1149 | 0.8749 | 0.0026 | 0.131 | 0.1018 | 0.00278 | 0.9075 | -0.2026 | 2.106 | 0.1149 | 0.0919 | 0.1348 | | | | |
| 250 U050-054 | 2.50 | 0.50 | 0.1862 | 0.6331 | 0.1401 | 0.8675 | 0.0031 | 0.130 | 0.1988 | 0.00328 | 0.8999 | -0.2008 | 2.648 | 0.1401 | 0.1121 | 0.1847 | 3.921 | 0.1401 | 0.1121 | 0.1703 |

For SI: 1 inch = 25.4 mm, 1 in² = 645 mm², 1 in³ = 1.64x10⁴ mm³, 1 in⁴ = 4.16x10⁵ mm⁴, 1 in⁶ = 2.69x10⁸ mm⁶, 1 kip-in = 113.3 N-m, 1 kip = 4.4 kN