

Cold-Rolled Channel (CRC)

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.

MATERIALS

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

COLOR CODE

Traditional
18 Gauge — Yellow
16 Gauge — Green

ASTM & CODE STANDARDS

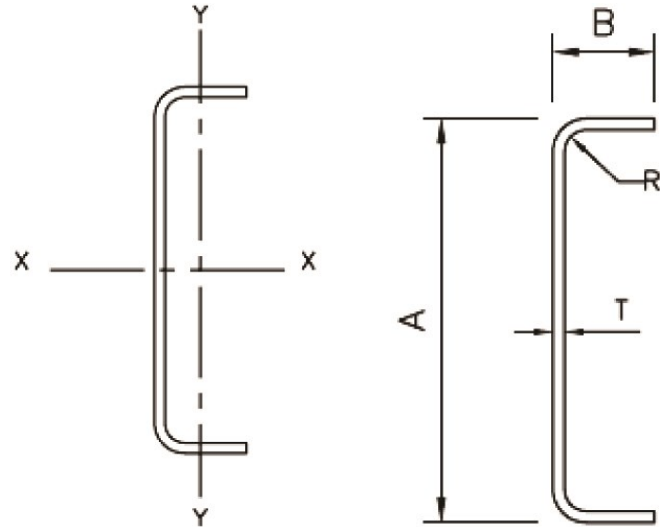
- IBC 2009/2012 Please reference Steeler ICC-ES Report ESR-2054 for further information. Available for download at www.steeler.com/technicalinfo.php
- AISI NASPEC 2007
- Meets or exceeds:
 - ASTM C754 & ASTM 955
 - ASTM E119 & E90
 - ASTM A370
 - ASTM A1003

MANUFACTURER CONTACT INFORMATION

Seattle Plant | 10023 MLK Jr. Way S. Seattle, WA 98178 | P: 206-725-2500

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

For CAD & BIM Drawings, Architectural Specifications and more, find Steeler on:



STEELER 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.

Table 3-U-Member (Cold-Rolled Channel) Section Properties; Traditional Thickness Members

Member ID Designation	Dimensions in		Full Properties						Torsional				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 ³
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