

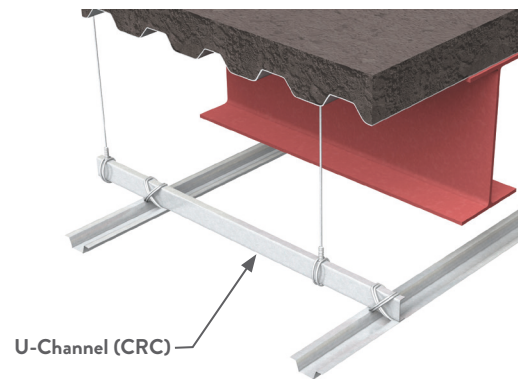
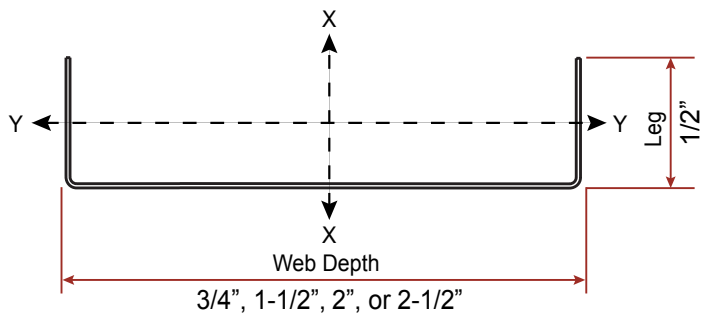
U-Channel (CRC)

U-CHANNEL (CRC) SECTION PROPERTIES

Section	Design thickness (in)	Yield Strength, FY (ksi)	Gross Properties						Effective Properties			
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	V _a (lb)
075U050-54	0.0566	33	0.087	0.296	0.007	0.289	0.002	0.156	0.007	0.019	0.459	315
		50									0.680	496
150U050-54	0.0566	33	0.130	0.441	0.039	0.549	0.003	0.146	0.039	0.052	1.230	840
		50									1.821	1292
200U050-54	0.0566	33	0.158	0.537	0.080	0.711	0.003	0.137	0.080	0.080	1.883	1190
		50									2.789	1822
250U050-54	0.0566	33	0.186	0.633	0.140	0.868	0.003	0.130	0.140	0.112	2.648	1540
		50									3.921	2353

Notes:

- 1 Calculated properties are based on AISI S100-2012, North American Specification for Design of Cold-Formed Steel Structural Members.
- 2 Minimum base metal thickness is 95% of design thickness. Design thickness used for determination of properties.



U-CHANNEL (CRC) ALLOWABLE CEILING SPANS L/240

Section	Yield Strength, FY (ksi)	Spans	4 psf dead load					6 psf dead load					13 psf dead load					15 psf dead load				
			Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
075U050-54	33	Single	3'-11"	3'-5"	3'-1"	2'-11"	2'-9"	3'-5"	3'-0"	2'-9"	2'-6"	2'-4"	2'-8"	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'-2"	2'-0"	1'-9"
	50	Single	3'-11"	3'-5"	3'-1"	2'-11"	2'-9"	3'-5"	3'-0"	2'-9"	2'-6"	2'-4"	2'-8"	2'-4"	2'-1"	1'-11"	1'-10"	2'-6"	2'-2"	2'-0"	1'-10"	1'-9"
		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'-2"	2'-0"	1'-10"
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'-4"	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"
	50	Single	5'-6"	4'-10"	4'-5"	4'-1"	3'-10"	4'-10"	4'-3"	3'-10"	3'-7"	3'-5"	3'-9"	3'-4"	3'-0"	2'-10"	2'-8"	3'-7"	3'-2"	2'-11"	2'-8"	2'-6"
		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'-5"	3'-1"	4'-7"	4'-0"	3'-7"	3'-2"	2'-10"
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"
	50	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"
	50	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"

Notes:

- 1 Allowable ceiling spans are based on effective properties.
- 2 Multiple span indicates two or more equal spans with channel continuous over center support.
- 3 Bearing length = 0.75-inches.
- 4 Table values are based on the compression flange laterally unsupported.

U-CHANNEL (CRC) ALLOWABLE CEILING SPANS L/360

Section	Yield Strength, FY (ksi)	Spans	4 psf dead load					6 psf dead load					13 psf dead load					15 psf dead load				
			Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
			24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
075U050-54	33	Single	3'-5"	3'-0"	2'-9"	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"
	50	Single	3'-5"	3'-0"	2'-9"	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'-4"	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"
	50	Single	5'-6"	4'-10"	4'-5"	4'-1"	3'-10"	4'-10"	4'-3"	3'-10"	3'-7"	3'-5"	3'-9"	3'-4"	3'-0"	2'-10"	2'-8"	3'-7"	3'-2"	2'-11"	2'-8"	2'-6"
		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'-5"	3'-1"	4'-7"	4'-0"	3'-7"	3'-2"	2'-10"
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"
	50	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"
	50	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"

Notes:

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