



STRUCTURAL CHANNELS

AMERICAN STANDARD

Dimensions ASTM-A36

Designation	Area <i>A</i>	Depth <i>d</i>	Web		Flange			Distance		Grip	Max. Flge. Fastener		
			Thickness <i>t_w</i>	$\frac{t_w}{2}$	Width <i>b_f</i>	Thickness <i>t_f</i>	<i>T</i>	<i>k</i>					
									In.			In.	In.
C 3x4.1	1.20	3.00	0.170	$\frac{3}{16}$	$\frac{1}{8}$	1.410	$1\frac{1}{8}$	0.273	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{16}$	—	—
x 5	1.47	3.00	0.258	$\frac{1}{4}$	$\frac{1}{8}$	1.498	$1\frac{1}{2}$	0.273	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{16}$	—	—
x 6	1.76	3.00	0.356	$\frac{3}{8}$	$\frac{3}{16}$	1.596	$1\frac{1}{8}$	0.273	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{16}$	—	—
C 4x5.4	1.58	4.00	0.184	$\frac{3}{16}$	$\frac{1}{8}$	1.584	$1\frac{1}{8}$	0.296	$\frac{5}{16}$	$2\frac{1}{2}$	$\frac{3}{4}$	—	—
x 7.25	2.13	4.00	0.321	$\frac{5}{16}$	$\frac{3}{16}$	1.721	$1\frac{1}{4}$	0.296	$\frac{5}{16}$	$2\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{5}{8}$
C 5x6.7	1.97	5.00	0.190	$\frac{3}{16}$	$\frac{1}{8}$	1.750	$1\frac{1}{4}$	0.320	$\frac{5}{16}$	$3\frac{1}{2}$	$\frac{3}{4}$	—	—
x 9	2.64	5.00	0.325	$\frac{5}{16}$	$\frac{3}{16}$	1.885	$1\frac{1}{8}$	0.320	$\frac{5}{16}$	$3\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{5}{8}$
C 6x 8.2	2.39	6.00	0.200	$\frac{3}{16}$	$\frac{1}{8}$	1.920	$1\frac{1}{8}$	0.343	$\frac{5}{16}$	$4\frac{3}{8}$	$\frac{13}{16}$	$\frac{5}{16}$	$\frac{5}{8}$
x10.5	3.08	6.00	0.314	$\frac{5}{16}$	$\frac{3}{16}$	2.034	2	0.343	$\frac{5}{16}$	$4\frac{3}{8}$	$\frac{13}{16}$	$\frac{3}{8}$	$\frac{5}{8}$
x13	3.81	6.00	0.437	$\frac{7}{16}$	$\frac{1}{4}$	2.157	$2\frac{1}{8}$	0.343	$\frac{5}{16}$	$4\frac{3}{8}$	$\frac{13}{16}$	$\frac{5}{16}$	$\frac{5}{8}$
C 7x9.8	2.87	7.00	0.210	$\frac{3}{16}$	$\frac{1}{8}$	2.090	$2\frac{1}{8}$	0.366	$\frac{3}{8}$	$5\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{8}$
x12.25	3.60	7.00	0.314	$\frac{5}{16}$	$\frac{3}{16}$	2.194	$2\frac{1}{4}$	0.366	$\frac{3}{8}$	$5\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{8}$
x14.75	4.33	7.00	0.419	$\frac{7}{16}$	$\frac{1}{4}$	2.299	$2\frac{1}{4}$	0.366	$\frac{3}{8}$	$5\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{8}$
C 8x11.5	3.37	8.00	0.220	$\frac{1}{4}$	$\frac{1}{8}$	2.260	$2\frac{1}{4}$	0.390	$\frac{3}{8}$	$6\frac{1}{8}$	$\frac{15}{16}$	$\frac{3}{8}$	$\frac{3}{4}$
x13.75	4.04	8.00	0.303	$\frac{5}{16}$	$\frac{3}{16}$	2.343	$2\frac{1}{8}$	0.390	$\frac{3}{8}$	$6\frac{1}{8}$	$\frac{15}{16}$	$\frac{3}{8}$	$\frac{3}{4}$
x18.75	5.51	8.00	0.487	$\frac{1}{2}$	$\frac{1}{4}$	2.527	$2\frac{1}{2}$	0.390	$\frac{3}{8}$	$6\frac{1}{8}$	$\frac{15}{16}$	$\frac{3}{8}$	$\frac{3}{4}$
C 9x13.4	3.94	9.00	0.233	$\frac{1}{4}$	$\frac{1}{8}$	2.433	$2\frac{1}{8}$	0.413	$\frac{7}{16}$	7	1	$\frac{7}{16}$	$\frac{3}{4}$
x15	4.41	9.00	0.285	$\frac{5}{16}$	$\frac{3}{16}$	2.485	$2\frac{1}{2}$	0.413	$\frac{7}{16}$	7	1	$\frac{7}{16}$	$\frac{3}{4}$
x20	5.87	9.00	0.448	$\frac{7}{16}$	$\frac{1}{4}$	2.648	$2\frac{1}{8}$	0.413	$\frac{7}{16}$	7	1	$\frac{7}{16}$	$\frac{3}{4}$
C 10x15.3	4.48	10.00	0.240	$\frac{1}{4}$	$\frac{1}{8}$	2.60	$2\frac{1}{8}$	0.436	$\frac{7}{16}$	8	1	$\frac{7}{16}$	$\frac{3}{4}$
x20	5.87	10.00	0.379	$\frac{3}{8}$	$\frac{3}{16}$	2.74	$2\frac{1}{4}$	0.436	$\frac{7}{16}$	8	1	$\frac{7}{16}$	$\frac{3}{4}$
x25	7.34	10.00	0.526	$\frac{1}{2}$	$\frac{1}{4}$	2.89	$2\frac{1}{8}$	0.436	$\frac{7}{16}$	8	1	$\frac{7}{16}$	$\frac{3}{4}$
x30	8.81	10.00	0.673	$1\frac{1}{16}$	$\frac{3}{8}$	3.03	3	0.436	$\frac{7}{16}$	8	1	$\frac{7}{16}$	$\frac{3}{4}$
C 12x20.7	6.08	12.00	0.282	$\frac{5}{16}$	$\frac{3}{16}$	2.94	3	0.501	$\frac{1}{2}$	$9\frac{3}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{7}{8}$
x25	7.34	12.00	0.387	$\frac{3}{8}$	$\frac{3}{16}$	3.05	3	0.501	$\frac{1}{2}$	$9\frac{3}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{7}{8}$
x30	8.81	12.00	0.510	$\frac{1}{2}$	$\frac{1}{4}$	3.170	$3\frac{1}{8}$	0.501	$\frac{1}{2}$	$9\frac{3}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{7}{8}$
C 15x33.9	9.96	15.00	0.400	$\frac{3}{8}$	$\frac{3}{16}$	3.400	$3\frac{3}{8}$	0.650	$\frac{5}{8}$	12 $\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{8}$	1
x40	11.8	15.00	0.520	$\frac{1}{2}$	$\frac{1}{4}$	3.520	$3\frac{1}{2}$	0.650	$\frac{5}{8}$	12 $\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{8}$	1
x50	14.7	15.00	0.716	$1\frac{1}{16}$	$\frac{3}{8}$	3.72	$3\frac{3}{8}$	0.650	$\frac{5}{8}$	12 $\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{8}$	1