

[American Standard Steel Channels](#)

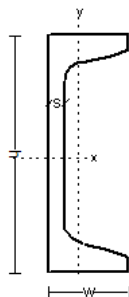
Dimensions and static parameters of American Standard Steel Channels

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Properties in imperial units of American Steel Channels are indicated below.

Designation	Dimensions					Static Parameters			
						Moment of Inertia		Elastic Section Modulus	
Imperial (in x lb/ft)	Depth h (in)	Width w (in)	Web Thickness s (in)	Sectional Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	I _y (in ⁴)	W _x (in ³)	W _y (in ³)
C 15 x 50	15	3.716	0.716	14.7	50	404	11.0	53.8	3.78
C 15 x 40	15	3.520	0.520	11.8	40	349	9.23	46.5	3.37
C 15 x 33.9	15	3.400	0.400	9.96	33.9	315	8.13	42.0	3.11
C 12 x 30	12	3.170	0.510	8.82	30	162	5.14	27.0	2.06
C 12 x 25	12	3.047	0.387	7.35	25	144	4.47	24.1	1.88
C 12 x 20.7	12	2.942	0.282	6.09	20.7	129	3.88	21.5	1.73
C 10 x 30	10	3.033	0.673	8.82	30	103	3.94	20.7	1.65
C 10 x 25	10	2.886	0.526	7.35	25	91.2	3.36	18.2	1.48
C 10 x 20	10	2.739	0.379	5.88	20	78.9	2.81	15.8	1.32
C 10 x 15.3	10	2.600	0.240	4.49	15.3	67.4	2.28	13.5	1.16
C 9 x 20	9	2.648	0.448	5.88	20	60.9	2.42	13.5	1.17
C 9 x 15	9	2.485	0.285	4.41	15	51.0	1.93	11.3	1.01
C 9 x 13.4	9	2.433	0.233	3.94	13.4	47.9	1.76	10.6	0.96
C 8 x 18.75	8	2.527	0.487	5.51	18.75	44.0	1.98	11.0	1.01
C 8 x 13.75	8	2.343	0.303	4.04	13.75	36.1	1.53	9.03	0.85
C 8 x 11.5	8	2.260	0.220	3.38	11.5	32.6	1.32	8.14	0.78
C 7 x 14.75	7	2.299	0.419	4.33	14.75	27.2	1.38	7.78	0.78
C 7 x 12.25	7	2.194	0.314	3.60	12.25	24.2	1.17	6.93	0.70
C 7 x 9.8	7	2.090	0.210	2.87	9.8	21.3	0.97	6.08	0.63
C 6 x 13	6	2.157	0.437	3.83	13	17.4	1.05	5.80	0.64
C 6 x 10.5	6	2.034	0.314	3.09	10.5	15.2	0.87	5.06	0.56
C 6 x 8.2	6	1.920	0.200	2.40	8.2	13.1	0.69	4.38	0.49
C 5 x 9	5	1.885	0.325	2.64	9	8.90	0.63	3.56	0.45
C 5 x 6.7	5	1.750	0.190	1.97	6.7	7.49	0.48	3.00	0.38
C 4 x 7.25	4	1.721	0.321	2.13	7.25	4.59	0.43	2.29	0.34
C 4 x 5.4	4	1.584	0.184	1.59	5.4	3.85	0.32	1.93	0.28
C 3 x 6	3	1.596	0.356	1.76	6	2.07	0.31	1.38	0.27
C 3 x 5	3	1.498	0.258	1.47	5	1.85	0.25	1.24	0.23
C 3 x 4.1	3	1.410	0.170	1.21	4.1	1.66	0.20	1.10	0.20

- $1 \text{ cm}^4 = 10^{-8} \text{ m} = 10^4 \text{ mm}$
- $1 \text{ in}^4 = 4.16 \times 10^5 \text{ mm}^4 = 41.6 \text{ cm}^4$
- $1 \text{ cm}^3 = 10^{-6} \text{ m} = 10^3 \text{ mm}$

The standard method for specifying the dimensions of a American Standard Steel Channels is like C 5 x 9, which is a beam 5 inches deep with a weight 9 lb/ft.

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American Standard Steel Channels

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