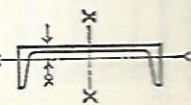
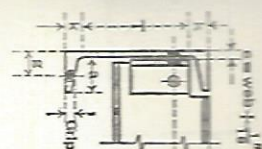


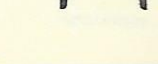
AMERICAN STANDARD CHANNELS



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PROPERTIES FOR DESIGNING

Nominal Channel Size	Weight per Foot	Area	Depth	Flange		Web Thickness	AXIS X-X			AXIS Y-Y				
				Width	Average Thickness		I	S	r	I	S	r	X	
In.	Lb.	In. ²	In.	In.	In.	In.	In. ⁴	In. ³	In.	In. ⁴	In. ³	In.	In.	In.
10 x 4	58.0	16.93	18.00	4.200	.625	.700	670.7	74.5	6.29	18.5	5.6	1.04	.88	
10 x 4	51.9	15.18	18.00	4.100	.625	.600	622.1	69.1	6.40	17.1	5.3	1.06	.87	
10 x 4	45.8	13.38	18.00	4.000	.625	.500	573.5	63.7	6.55	15.8	5.1	1.09	.89	
10 x 4	42.7	12.48	18.00	3.950	.625	.450	549.2	61.0	6.64	15.0	4.9	1.10	.90	
10 x 3 1/2	50.0	14.64	15.00	3.716	.650	.716	401.4	53.6	5.24	11.2	3.8	.87	.80	
10 x 3 1/2	40.0	11.70	15.00	3.520	.650	.520	346.3	46.2	5.44	9.3	3.4	.89	.78	
10 x 3 1/2	33.9	9.90	15.00	3.400	.650	.400	312.6	41.7	5.62	8.2	3.2	.91	.79	
12 x 3	30.0	8.79	12.00	3.170	.501	.510	161.2	26.9	4.28	5.2	2.1	.77	.68	
12 x 3	25.0	7.32	12.00	3.047	.501	.387	143.5	23.9	4.43	4.61	1.9	.79	.68	
12 x 3	20.7	6.03	12.00	2.940	.501	.280	128.1	21.4	4.61	3.9	1.7	.81	.70	
10 x 2 1/2	30.0	8.80	10.00	3.033	.436	.673	103.0	20.6	3.42	4.0	1.7	.67	.65	
10 x 2 1/2	25.0	7.33	10.00	2.886	.436	.526	90.7	18.1	3.52	3.4	1.5	.68	.62	
10 x 2 1/2	20.0	5.86	10.00	2.739	.436	.379	78.5	15.7	3.66	2.8	1.3	.70	.61	
10 x 2 1/2	15.3	4.47	10.00	2.600	.436	.240	66.9	13.4	3.87	2.3	1.2	.72	.64	
8 x 2 1/2	20.0	5.86	9.00	2.648	.413	.448	60.6	13.5	3.22	2.4	1.2	.65	.59	
8 x 2 1/2	15.0	4.39	9.00	2.485	.413	.285	50.7	11.3	3.40	1.9	1.0	.67	.59	
8 x 2 1/2	13.4	3.89	9.00	2.430	.413	.230	47.3	10.5	3.49	1.8	.97	.67	.61	
8 x 2 1/4	18.75	5.49	8.00	2.527	.390	.487	43.7	10.9	2.82	2.0	1.0	.60	.57	
8 x 2 1/4	13.75	4.02	8.00	2.343	.390	.303	35.8	8.1	2.99	1.5	.86	.62	.56	
8 x 2 1/4	11.5	3.36	8.00	2.260	.390	.220	32.3	8.1	3.10	1.3	.79	.63	.58	
7 x 2 1/4	14.75	4.32	7.00	2.299	.366	.419	27.1	7.7	2.51	1.4	.79	.57	.53	
7 x 2 1/4	12.25	3.58	7.00	2.194	.366	.314	24.1	6.9	2.59	1.2	.71	.58	.53	
7 x 2 1/4	9.8	2.85	7.00	2.090	.366	.210	21.1	6.0	2.72	.98	.63	.59	.55	
6 x 2	13.0	3.81	6.00	2.157	.343	.437	17.3	5.8	2.13	1.1	.65	.53	.52	
6 x 2	10.5	3.07	6.00	2.034	.343	.314	15.1	5.0	2.22	.87	.57	.53	.50	
6 x 2	8.2	2.39	6.00	1.920	.343	.200	13.0	4.3	2.34	.70	.50	.54	.52	
5 x 1 3/4	9.0	2.63	5.00	1.885	.320	.325	8.8	3.5	1.83	.64	.45	.49	.48	
5 x 1 3/4	6.7	1.95	5.00	1.750	.320	.190	7.4	3.0	1.95	.48	.38	.50	.49	
4 x 1 1/2	7.25	2.12	4.00	1.720	.296	.320	4.5	2.3	1.47	.44	.35	.46	.46	
4 x 1 1/2	5.4	1.56	4.00	1.580	.296	.180	3.8	1.9	1.56	.32	.29	.45	.46	
3 x 1 1/2	6.0	1.75	3.00	1.596	.273	.356	2.1	1.4	1.08	.31	.27	.42	.46	
3 x 1 1/2	5.0	1.46	3.00	1.498	.273	.258	1.8	1.2	1.12	.25	.24	.41	.44	
3 x 1 1/2	4.1	1.19	3.00	1.410	.273	.170	1.6	1.1	1.17	.20	.21	.41	.44	

*Car and Shipbuilding Channel: not an American Standard.
See page 10 for method of designation.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Depth of Section	Weight per Foot	Flange		Web		Distance					Grip	Max. Flange Rivet	Usual Gage g	
		Width	Mean Thickness	Thickness	Half Thickness	a	T	k	g ₁	c				
In.	Lb.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
*18	58.0	4 1/4	5/8	11/16	3/8	3 1/2	15 3/8	15 1/2	2 3/4	3/4	5/8	1	2 1/2	
	51.9	4 1/8	5/8	5/8	5/16	3 1/2	15 3/8	15 1/2	2 3/4	11/16	5/8	1	2 1/2	
	45.8	4	5/8	1/2	1/4	3 1/2	15 3/8	15 1/2	2 3/4	5/8	5/8	1	2 1/2	
	42.7	4	5/8	1/16	1/4	3 1/2	15 3/8	15 1/2	2 3/4	1/2	5/8	1	2 1/2	
15	50.0	3 3/4	5/8	3/4	3/8	3	12 3/8	12 3/8	2 3/4	1 3/16	5/8	1	2 1/4	
	40.0	3 1/2	5/8	5/16	1/4	3	12 3/8	12 3/8	2 3/4	1 1/2	5/8	1	2	
	33.9	3 3/8	5/8	7/16	3/16	3	12 3/8	12 3/8	2 3/4	1 1/2	5/8	1	2	
12	30.0	3 1/8	1/2	1/2	1/4	2 5/8	9 7/8	9 7/8	2 1/2	9/16	1 1/2	1	1 3/4	
	25.0	3	1/2	3/8	1/8	2 5/8	9 7/8	9 7/8	2 1/2	7/8	1 1/2	1	1 3/4	
	20.7	3	1/2	5/16	1/8	2 5/8	9 7/8	9 7/8	2 1/2	3/8	1 1/2	1	1 3/4	
10	30.0	3	7/16	11/16	3/8	2 3/8	8 1/8	8 1/8	2 1/2	5/8	7/16	1	1 3/4	
	25.0	2 7/8	7/16	9/16	1/4	2 3/8	8 1/8	8 1/8	2 1/2	5/8	7/16	1	1 3/4	
	20.0	2 3/4	7/16	7/16	1/8	2 3/8	8 1/8	8 1/8	2 1/2	5/16	7/16	1	1 1/2	
9	20.0	2 5/8	7/16	7/16	1/4	2 1/4	7 1/4	7 1/4	2 1/2	1/2	7/16	1	1 1/2	
	15.0	2 1/2	7/16	5/16	1/8	2 1/4	7 1/4	7 1/4	2 1/2	5/16	7/16	1	1 1/2	
	13.4	2 3/8	7/16	1/4	1/8	2 1/4	7 1/4	7 1/4	2 1/2	5/16	7/16	1	1 1/2	
8	18.75	2 1/2	3/8	1/2	1/4	2	6 3/8	6 3/8	2 1/4	9/16	3/8	5/8	1 1/2	
	13.75	2 3/8	3/8	5/16	1/8	2	6 3/8	6 3/8	2 1/4	3/8	3/8	5/8	1 1/2	
	11.5	2 1/4	3/8	1/4	1/8	2	6 3/8	6 3/8	2 1/4	5/16	3/8	5/8	1 1/2	
7	14.75	2 1/4	3/8	7/16	1/4	1 7/8	5 3/8	5 3/8	2	1 1/2	3/8	5/8	1 1/4	
	12.25	2 1/4	3/8	5/16	1/4	1 7/8	5 3/8	5 3/8	2	1 1/2	3/8	5/8	1 1/4	
	9.8	2 1/8	3/8	1/4	1/8	1 7/8	5 3/8	5 3/8	2	1 1/2	3/8	5/8	1 1/4	
6	13.0	2 1/8	3/8	7/16	1/4	1 3/4	4 1 1/2	4 1 1/2	2	1 1/2	3/8	5/8	1 3/8	
	10.5	2	3/8	5/16	1/8	1 3/4	4 1 1/2	4 1 1/2	2	1 1/2	3/8	5/8	1 3/8	
	8.2	1 7/8	3/8	5/16	1/8	1 3/4	4 1 1/2	4 1 1/2	2	1 1/2	3/8	5/8	1 3/8	
5	9.0	1 7/8	5/16	5/16	1/8	1 1/2	3 5/8	3 5/8	2	1 1/2	3/8	5/8	1 3/8	
	6.7	1 3/4	5/16	5/16	1/8	1 1/2	3 5/8	3 5/8	2	1 1/2	3/8	5/8	1 3/8	
4	7.25	1 5/8	5/16	5/16	1/8	1 3/8	2 3/4	2 3/4	2	1 1/2	3/8	5/8	1 3/8	
	5.4	1 5/8	5/16	5/16	1/8	1 3/8	2 3/4	2 3/4	2	1 1/2	3/8	5/8	1 3/8	
3	6.0	1 5/8	1 1/4	3/8	1/8	1 1/4	1 3/4	1 3/4	2	1 1/2	3/8	5/8	1 3/8	
	5.0	1 1/2	1 1/4	1/4	1/8	1 1/4	1 3/4	1 3/4	2	1 1/2	3/8	5/8	1 3/8	
	4.1	1 3/8	1 1/4	1/4	1/8	1 1/4	1 3/4	1 3/4	2	1 1/2	3/8	5/8	1 3/8	

*Car and Shipbuilding Channel: not an American Standard.
Gage g₁ is based on k + 1/16", to nearest 1/16".
Gage g is permissible near ends of channel; elsewhere Specification may require reduction in rivet size.

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