

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall								t	b/t	h/t	area	I _x	S _x	r _x	Z _x			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
3	1.5	-	14	0.083	2.39	0.077	16.5	36.0	0.65	0.756	0.504	1.07	0.627	0.257	0.343	0.627	0.387	0.624	0.639	0.73
3	1.5	-	12	0.109	3.07	0.101	11.9	26.7	0.84	0.948	0.632	1.06	0.796	0.320	0.426	0.616	0.490	0.789	0.815	0.72
3	1.5	-	11	0.120	3.35	0.112	10.4	23.8	0.93	1.03	0.686	1.05	0.869	0.346	0.461	0.611	0.534	0.861	0.892	0.72
2	2	-	14	0.083	2.11	0.077	23.0	23.0	0.58	0.351	0.351	0.780	0.412	0.351	0.351	0.780	0.412	0.559	0.568	0.64
2	2	-	12	0.109	2.70	0.101	16.8	16.8	0.74	0.437	0.437	0.768	0.521	0.437	0.437	0.768	0.521	0.708	0.724	0.64
2	2	-	11	0.120	2.94	0.112	14.9	14.9	0.81	0.473	0.473	0.763	0.568	0.473	0.473	0.763	0.568	0.773	0.793	0.63
2	2	-	10	0.134	3.25	0.125	13.0	13.0	0.90	0.513	0.513	0.756	0.621	0.513	0.513	0.756	0.621	0.846	0.871	0.63
2	2	-	8	0.165	3.88	0.165	9.12	9.12	1.14	0.62	0.62	0.737	0.768	0.62	0.62	0.737	0.768	1.05	1.09	0.619
4	2	-	14	0.083	3.24	0.077	23.0	48.9	0.89	1.86	0.928	1.45	1.14	0.636	0.636	0.848	0.708	1.52	1.16	0.98
4	2	-	12	0.109	4.19	0.101	16.8	36.6	1.14	2.35	1.18	1.43	1.46	0.802	0.802	0.837	0.905	1.94	1.49	0.97
4	2	-	11	0.120	4.58	0.112	14.9	32.7	1.26	2.57	1.29	1.43	1.61	0.873	0.873	0.832	0.991	2.13	1.64	0.97
4	2	-	10	0.134	5.07	0.125	13.0	29.0	1.40	2.82	1.41	1.42	1.77	0.954	0.954	0.826	1.09	2.34	1.81	0.96
4	2	-	8	0.165	6.13	0.165	9.12	21.2	1.8	3.52	1.76	1.4	2.24	1.18	1.18	0.81	1.37	2.95	2.3	0.953
4	2	3/16	0.1875	0.1875	6.87	0.188	7.64	18.3	2.02	3.88	1.94	1.39	2.49	1.29	1.29	0.799	1.52	3.27	2.57	0.946
3	3	-	14	0.083	3.24	0.077	36.0	36.0	0.89	1.25	0.833	1.19	0.964	1.25	0.833	1.19	0.964	1.95	1.31	0.98
3	3	-	12	0.109	4.19	0.101	26.7	26.7	1.14	1.58	1.06	1.18	1.23	1.58	1.06	1.18	1.23	2.51	1.69	0.97
3	3	-	11	0.120	4.58	0.112	23.8	23.8	1.26	1.73	1.15	1.17	1.35	1.73	1.15	1.17	1.35	2.75	1.86	0.97
3	3	-	10	0.134	5.07	0.125	21.0	21.0	1.40	1.90	1.26	1.16	1.49	1.90	1.26	1.16	1.49	3.03	2.06	0.96
3	3	-	8	0.165	6.13	0.165	15.2	15.2	1.8	2.36	1.57	1.15	1.89	2.36	1.57	1.15	1.89	3.89	2.36	0.953
3	3	3/16	0.1875	0.1875	6.87	0.188	13	13	2.02	2.61	1.74	1.14	2.1	2.61	1.74	1.14	2.1	4.29	2.95	0.946

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	I _x	S _x	r _x	Z _x	I _y			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
4	3	-	14	0.083	3.80	0.077	36.0	48.9	1.04	2.45	1.22	1.53	1.45	1.58	1.05	1.23	1.19	3.00	1.76	1.14
4	3	-	12	0.109	4.93	0.101	26.7	36.6	1.35	3.12	1.56	1.52	1.86	2.01	1.34	1.22	1.53	3.86	2.28	1.14
4	3	-	11	0.120	5.39	0.112	23.8	32.7	1.49	3.42	1.71	1.52	2.04	2.20	1.47	1.22	1.68	4.24	2.51	1.13
4	3	-	10	0.134	5.98	0.125	21.0	29.0	1.65	3.76	1.88	1.51	2.25	2.41	1.61	1.21	1.85	4.68	2.78	1.13
4	3	-	8	0.160	7.05	0.149	17.1	23.8	1.94	4.35	2.18	1.50	2.63	2.79	1.86	1.20	2.16	5.47	3.26	1.12
4	3	3/16	0.1875	0.1875	8.15	0.188	13	18.3	2.4	5.24	2.62	1.48	3.21	3.35	2.23	1.18	2.63	6.68	4	1.11
6	3	-	14	0.083	4.93	0.077	36.0	74.9	1.35	6.48	2.16	2.19	2.64	2.24	1.49	1.29	1.64	5.27	2.66	1.48
6	3	-	12	0.109	6.41	0.101	26.7	56.4	1.75	8.32	2.77	2.18	3.41	2.86	1.91	1.28	2.11	6.80	3.45	1.47
6	3	-	11	0.120	7.03	0.112	23.8	50.6	1.93	9.14	3.05	2.17	3.75	3.13	2.09	1.27	2.32	7.48	3.80	1.47
6	3	-	10	0.134	7.81	0.125	21.0	45.0	2.15	10.1	3.36	2.17	4.15	3.45	2.30	1.27	2.57	8.27	4.22	1.46
6	3	-	8	0.160	9.23	0.149	17.1	37.3	2.54	11.8	3.92	2.15	4.87	4.00	2.67	1.26	3.01	9.69	4.96	1.46
6	3	3/16	0.1875	0.1875	10.7	0.188	13	28.9	3.15	14.3	4.77	2.13	5.98	4.84	3.23	1.24	3.69	11.9	6.12	1.45
8	3	-	12	0.109	7.89	0.101	26.7	76.2	2.15	17.0	4.25	2.81	5.36	3.71	2.47	1.31	2.70	9.91	4.62	1.80
8	3	-	11	0.120	8.66	0.112	23.8	68.4	2.38	18.7	4.68	2.80	5.91	4.07	2.71	1.31	2.97	10.9	5.10	1.80
8	3	-	10	0.134	9.63	0.125	21.0	61.0	2.65	20.7	5.17	2.80	6.55	4.48	2.99	1.30	3.29	12.1	5.65	1.80
8	3	-	8	0.160	11.41	0.149	17.1	50.7	3.13	24.2	6.06	2.78	7.70	5.21	3.48	1.29	3.86	14.2	6.66	1.79
8	3	3/16	0.1875	0.1875	13.25	0.188	13	39.6	3.9	29.7	7.43	2.76	9.51	6.33	4.22	1.27	4.74	17.4	8.23	1.78
10	3	-	12	0.109	9.38	0.101	26.7	96.0	2.56	30.0	6.01	3.43	7.72	4.56	3.04	1.33	3.28	13.1	5.79	2.14
10	3	-	11	0.120	10.29	0.112	23.8	86.3	2.83	33.1	6.61	3.42	8.51	5.00	3.33	1.33	3.62	14.4	6.39	2.13
10	3	-	10	0.134	11.45	0.125	21.0	77.0	3.15	36.6	7.32	3.41	9.44	5.51	3.68	1.32	4.01	16.0	7.09	2.13
10	3	-	8	0.160	13.58	0.149	17.1	64.1	3.73	43.0	8.59	3.39	11.1	6.43	4.28	1.31	4.71	18.7	8.36	2.12

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	I _x	S _x	r _x	Z _x	I _y			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
10	3	3/16	0.1875	0.1875	15.8	0.188	13	50.2	4.66	52.8	10.6	3.37	13.8	7.82	5.21	1.3	5.8	23	10.3	2.11
9 1/2	3 1/2	-	12	0.109	9.38	0.101	31.7	91.1	2.56	28.6	6.01	3.34	7.56	6.07	3.47	1.54	3.77	16.3	6.45	2.14
9 1/2	3 1/2	-	11	0.120	10.29	0.112	28.3	81.8	2.83	31.5	6.62	3.33	8.35	6.67	3.81	1.54	4.15	17.9	7.12	2.13
9 1/2	3 1/2	-	10	0.134	11.45	0.125	25.0	73.0	3.15	34.8	7.33	3.33	9.26	7.36	4.21	1.53	4.60	19.8	7.90	2.13
9 1/2	3 1/2	-	8	0.160	13.58	0.149	20.5	60.8	3.73	40.9	8.61	3.31	10.9	8.60	4.91	1.52	5.41	23.3	9.33	2.12
9 1/2	3 1/2	3/16	0.1875	0.191	16.08	0.178	16.7	50.4	4.42	47.9	10.1	3.29	12.9	10	5.73	1.51	6.36	27.4	11	2.12
10	3 1/2	-	12	0.109	9.75	0.101	31.7	96.0	2.66	32.5	6.50	3.50	8.22	6.36	3.63	1.55	3.94	17.3	6.79	2.22
10	3 1/2	-	11	0.120	10.70	0.112	28.3	86.3	2.94	35.8	7.16	3.49	9.07	6.99	3.99	1.54	4.34	19.1	7.50	2.22
10	3 1/2	-	10	0.134	11.91	0.125	25.0	77.0	3.27	39.6	7.93	3.48	10.1	7.72	4.41	1.54	4.81	21.2	8.32	2.21
10	3 1/2	-	8	0.160	14.13	0.149	20.5	64.1	3.88	46.6	9.31	3.47	11.9	9.02	5.15	1.53	5.66	24.9	9.82	2.21
10	3 1/2	3/16	0.1875	0.1875	16.44	0.188	15.6	50.2	4.84	57.4	11.5	3.44	14.7	11	6.29	1.15	6.99	30.7	12.2	2.20
4	4	-	14	0.083	4.36	0.077	48.9	48.9	1.19	3.04	1.52	1.60	1.75	3.04	1.52	1.60	1.75	4.70	2.37	1.31
4	4	-	12	0.109	5.67	0.101	36.6	36.6	1.55	3.89	1.95	1.58	2.25	3.89	1.95	1.58	2.25	6.07	3.07	1.30
4	4	-	11	0.120	6.21	0.112	32.7	32.7	1.71	4.27	2.13	1.58	2.48	4.27	2.13	1.58	2.48	6.69	3.38	1.30
4	4	-	10	0.134	6.89	0.125	29.0	29.0	1.90	4.70	2.35	1.57	2.74	4.70	2.35	1.57	2.74	7.40	3.75	1.30
4	4	-	8	0.160	8.14	0.149	23.8	23.8	2.24	5.46	2.73	1.56	3.20	5.46	2.73	1.56	3.20	8.68	4.41	1.29
4	4	3/16	0.1875	0.1875	9.42	0.188	18.3	18.3	2.78	6.61	3.31	1.54	3.92	6.61	3.31	1.54	3.92	10.7	5.44	1.28
4	4	1/4	0.25	0.25	12.21	0.25	13	13	3.59	8.22	4.11	1.51	4.97	8.22	4.11	1.51	4.97	13.5	6.97	1.26
4	4	5/16	0.3125	0.3125	14.83	0.313	9.78	9.78	4.36	9.59	4.8	1.48	5.91	9.59	4.8	1.48	5.91	16.1	8.39	1.24
6	4	-	14	0.083	5.49	0.077	48.9	74.9	1.50	7.83	2.61	2.28	3.09	4.23	2.11	1.68	2.35	8.52	3.58	1.64

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	I _x	S _x	r _x	Z _x	I _y			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
6	4	-	12	0.109	7.15	0.101	36.6	56.4	1.95	10.1	3.36	2.27	4.00	5.43	2.71	1.67	3.04	11.0	4.64	1.64
6	4	-	11	0.120	7.84	0.112	32.7	50.6	2.16	11.1	3.69	2.27	4.41	5.96	2.98	1.66	3.35	12.2	5.12	1.63
6	4	-	10	0.134	8.72	0.125	29.0	45.0	2.40	12.2	4.08	2.26	4.88	6.57	3.29	1.66	3.71	13.5	5.68	1.63
6	4	-	8	0.160	10.32	0.149	23.8	37.3	2.83	14.3	4.77	2.25	5.74	7.67	3.84	1.65	4.35	15.8	6.70	1.62
6	4	3/16	0.1875	0.1875	11.97	0.188	18.3	28.9	3.53	17.5	5.83	2.23	7.07	9.34	4.67	1.63	5.36	19.6	8.3	1.61
6	4	1/4	0.25	0.25	15.62	0.25	13	21	4.59	22.1	7.37	2.19	9.06	11.7	5.85	1.6	6.84	25	10.7	1.6
6	4	5/16	0.3125	0.3125	19.08	0.313	9.78	16.2	5.62	26.2	8.73	2.16	10.9	13.9	6.95	1.57	8.22	30.1	13	1.58
6	4	3/8	-	0.381	22.68	0.354	8.3	13.9	6.26	28.6	9.52	2.14	12.0	15.1	7.53	1.55	9.04	33.2	14.4	1.57
8	4	-	12	0.109	8.64	0.101	36.6	76.2	2.36	20.2	5.04	2.93	6.16	6.96	3.48	1.72	3.83	16.4	6.22	1.97
8	4	-	11	0.120	9.48	0.112	32.7	68.4	2.61	22.2	5.55	2.92	6.79	7.65	3.83	1.71	4.22	18.1	6.86	1.97
8	4	-	10	0.134	10.54	0.125	29.0	61.0	2.90	24.6	6.14	2.91	7.53	8.45	4.23	1.71	4.67	20.0	7.62	1.96
8	4	-	8	0.160	12.49	0.149	23.8	50.7	3.43	28.8	7.20	2.90	8.87	9.88	4.94	1.70	5.50	23.6	9.00	1.96
8	4	3/16	0.1875	0.1875	14.53	0.188	18.3	39.6	4.28	35.4	8.85	2.88	11	12.1	6.05	1.68	6.79	29.2	11.2	1.95
8	4	1/4	0.25	0.25	19.02	0.25	13	29	5.59	45.1	11.3	2.84	14.1	15.3	7.65	1.65	8.72	37.5	14.5	1.93
8	4	5/16	0.3125	0.3125	23.34	0.313	9.78	22.6	6.78	54	13.5	2.8	17.1	18.1	9.05	1.62	10.5	45.2	17.6	1.91
8	4	3/8	0.375	0.375	27.48	0.375	7.67	18.3	8.08	61.9	15.5	2.77	19.9	20.6	10.3	1.6	12.2	52.2	20.5	1.89
10	4	-	12	0.109	10.12	0.101	36.6	96.0	2.76	35.0	7.00	3.56	8.72	8.50	4.25	1.75	4.61	22.0	7.79	2.30
10	4	-	11	0.120	11.11	0.112	32.7	86.3	3.05	38.5	7.71	3.55	9.62	9.35	4.67	1.75	5.09	24.3	8.61	2.30
10	4	-	10	0.134	12.37	0.125	29.0	77.0	3.40	42.7	8.54	3.54	10.7	10.3	5.16	1.74	5.64	26.9	9.56	2.30
10	4	-	8	0.160	14.67	0.149	23.8	64.1	4.03	50.2	10.0	3.53	12.6	12.1	6.05	1.73	6.65	31.7	11.3	2.29
10	4	3/16	0.1875	0.1875	17.08	0.188	18.3	50.2	5.03	61.9	12.4	3.51	15.6	14.8	7.4	1.72	8.22	39.2	14	2.28

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	I _x	S _x	r _x	Z _x	I _y			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
10	4	1/4	0.25	0.25	22.42	0.25	13	37	6.59	79.3	15.9	3.47	20.2	18.8	9.4	1.69	10.6	50.4	18.2	2.26
10	4	5/16	0.3125	0.3125	27.59	0.313	9.78	28.9	8.12	95.6	19.1	3.43	24.6	22.4	11.2	1.66	12.8	60.9	22.2	2.24
10	4	3/8	0.375	0.375	37.69	0.375	13	23.7	11.1	145	29	3.61	35.9	65.4	21.8	2.43	25.2	147	40.4	2.56
12	4	-	12	0.109	11.60	0.101	36.6	115.8	3.16	55.3	9.22	4.18	11.7	10.0	5.02	1.78	5.40	27.7	9.37	2.64
12	4	-	11	0.120	12.74	0.112	32.7	104.1	3.50	61.0	10.2	4.17	12.9	11.0	5.52	1.78	5.96	30.6	10.3	2.63
12	4	-	10	0.134	14.19	0.125	29.0	93.0	3.90	67.6	11.3	4.17	14.3	12.2	6.10	1.77	6.61	33.9	11.5	2.63
12	4	-	8	0.160	16.85	0.149	23.8	77.5	4.62	79.6	13.3	4.15	16.9	14.3	7.15	1.76	7.79	39.9	13.6	2.62
12	4	3/16	0.1875	0.1875	19.63	0.188	18.3	60.8	5.78	98.4	16.4	4.13	21	17.5	8.75	1.74	9.66	49.4	16.9	2.62
12	4	1/4	0.25	0.25	25.82	0.25	13	45	7.59	127	21.2	4.09	27.3	22.3	11.2	1.71	12.5	63.6	22	2.6
12	4	5/16	0.3125	0.3125	31.84	0.313	9.78	35.3	9.37	153	25.5	4.04	33.4	26.7	13.4	1.69	15.1	77	26.9	2.58
12	4	3/8	0.375	0.375	37.69	0.375	7.67	29	11.1	178	29.7	4	39	30.5	15.3	1.66	17.6	89	31.4	2.56
4 1/2	4 1/2	-	14	0.083	4.93	0.077	55.4	55.4	1.35	4.37	1.94	1.80	2.23	4.37	1.94	1.80	2.23	6.73	3.01	1.48
4 1/2	4 1/2	-	12	0.109	6.41	0.101	41.6	41.6	1.75	5.60	2.49	1.79	2.87	5.60	2.49	1.79	2.87	8.71	3.90	1.47
4 1/2	4 1/2	-	11	0.120	7.03	0.112	37.2	37.2	1.93	6.15	2.73	1.78	3.16	6.15	2.73	1.78	3.16	9.60	4.31	1.47
4 1/2	4 1/2	-	10	0.134	7.81	0.125	33.0	33.0	2.15	6.78	3.02	1.78	3.50	6.78	3.02	1.78	3.50	10.6	4.78	1.46
4 1/2	4 1/2	-	8	0.160	9.23	0.149	27.2	27.2	2.54	7.91	3.52	1.77	4.11	7.91	3.52	1.77	4.11	12.5	5.63	1.46
4 1/2	4 1/2	3/16	0.1875	0.1875	10.7	0.188	20.9	20.9	3.15	9.62	4.28	1.75	5.05	9.62	4.28	1.75	5.05	15.4	6.97	1.45
5	5	-	14	0.083	5.49	0.077	61.9	61.9	1.50	6.03	2.41	2.00	2.76	6.03	2.41	2.00	2.76	9.27	3.73	1.64
5	5	-	12	0.109	7.15	0.101	46.5	46.5	1.95	7.76	3.10	1.99	3.57	7.76	3.10	1.99	3.57	12.0	4.84	1.64
5	5	-	11	0.120	7.84	0.112	41.6	41.6	2.16	8.53	3.41	1.99	3.93	8.53	3.41	1.99	3.93	13.2	5.35	1.63
5	5	-	10	0.134	8.72	0.125	37.0	37.0	2.40	9.41	3.77	1.98	4.36	9.41	3.77	1.98	4.36	14.7	5.93	1.63

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	Ix	Sx	rx	Zx	Iy			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
5	5	-	8	0.160	10.32	0.149	30.6	30.6	2.83	11.0	4.40	1.97	5.12	11.0	4.40	1.97	5.12	17.3	7.00	1.62
5	5	3/16	0.1875	0.1875	11.97	0.188	23.6	23.6	3.53	13.4	5.36	1.95	6.31	13.4	5.36	1.95	6.31	21.4	8.68	1.61
5	5	1/4	0.25	0.25	15.62	0.25	17	127	4.59	16.9	6.76	1.92	8.07	16.9	6.76	1.92	8.07	27.4	11.2	1.6
5	5	5/16	0.3125	0.3125	19.08	0.313	13	13	5.62	20.1	8.04	1.89	9.71	20.1	8.04	1.89	9.71	33.1	13.6	1.58
5	5	3/8	0.375	0.375	22.37	0.375	10.3	10.3	6.58	22.8	9.12	1.86	11.2	22.8	9.12	1.86	11.2	38.2	15.8	1.56
9	5	-	12	0.109	10.12	0.101	46.5	86.1	2.76	30.9	6.87	3.35	8.29	12.6	5.04	2.14	5.55	28.1	8.80	2.30
9	5	-	11	0.120	11.11	0.112	41.6	77.4	3.05	34.1	7.58	3.34	9.15	13.9	5.55	2.13	6.12	31.0	9.73	2.30
9	5	-	10	0.134	12.37	0.125	37.0	69.0	3.40	37.8	8.39	3.33	10.2	15.4	6.14	2.13	6.79	34.4	10.8	2.30
9	5	-	8	0.160	14.67	0.149	30.6	57.4	4.03	44.4	9.87	3.32	12.0	18.0	7.21	2.12	8.01	40.6	12.8	2.29
9	5	3/16	0.1875	0.1875	17.08	0.188	23.6	44.9	5.03	54.8	12.2	3.3	14.9	22.1	8.84	2.1	9.93	50.4	15.9	2.28
9	5	1/4	0.25	0.25	22.42	0.25	17	33	6.59	70.3	15.6	3.27	19.3	28.2	11.3	2.07	12.8	65.2	20.7	2.26
9	5	5/16	0.3125	0.3125	27.59	0.313	13	25.8	8.12	84.7	18.8	3.23	23.4	33.9	13.6	2.04	15.6	79.3	25.4	2.24
9	5	3/8	0.375	0.375	32.58	0.375	10.3	21	9.58	97.8	21.7	3.2	27.3	38.9	15.6	2.02	18.1	92.2	29.7	2.23
6	6	-	12	0.109	8.64	0.101	56.4	56.4	2.36	13.6	4.53	2.40	5.19	13.6	4.53	2.40	5.19	20.9	7.03	1.97
6	6	-	11	0.120	9.48	0.112	50.6	50.6	2.61	15.0	4.99	2.40	5.73	15.0	4.99	2.40	5.73	23.1	7.76	1.97
6	6	-	10	0.134	10.54	0.125	45.0	45.0	2.90	16.5	5.52	2.39	6.35	16.5	5.52	2.39	6.35	25.7	8.62	1.96
6	6	-	8	0.160	12.49	0.149	37.3	37.3	3.43	19.4	6.47	2.38	7.48	19.4	6.47	2.38	7.48	30.3	10.2	1.96
6	6	3/16	0.1875	0.1875	14.78	0.188	28.9	28.9	4.28	23.8	7.93	2.36	9.26	23.8	7.93	2.36	9.26	37.5	12.7	1.95
6	6	1/4	0.25	0.25	19.02	0.25	21	21	5.59	30.3	10.1	2.33	11.9	30.3	10.1	2.33	11.9	48.5	16.5	1.93
6	6	5/16	0.3125	0.3125	23.34	0.313	16.2	16.2	6.87	36.3	12.1	2.3	14.5	36.3	12.1	2.3	14.5	59	20.1	1.91
6	6	3/8	0.375	0.375	27.48	0.375	13	13	8.08	41.6	13.9	2.27	16.8	41.6	13.9	2.27	16.8	68.5	23.5	1.89

Nominal Size					Weight per ft.	Design Wall Thick.				X-X Axis				Y-Y Axis				Torsional Stiffness Constant	Torsional Shear Constant	Surface Area
Depth	Width	Wall		t						b/t	h/t	area	I _x	S _x	r _x	Z _x	I _y			
in.	in.	in.	ga.	in.	lb.	in.		ft.2	in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.4	in.3	ft.2	
8	6	-	12	0.109	10.12	0.101	56.4	76.2	2.76	26.5	6.62	3.10	7.75	17.1	5.70	2.49	6.39	32.1	9.41	2.30
8	6	-	11	0.120	11.11	0.112	50.6	68.4	3.05	29.2	7.29	3.09	8.56	18.8	6.28	2.48	7.05	35.4	10.4	2.30
8	6	-	10	0.134	12.37	0.125	45.0	61.0	3.40	32.3	8.08	3.08	9.50	20.9	6.95	2.48	7.82	39.3	11.6	2.30
8	6	-	8	0.160	14.67	0.149	37.3	50.7	4.03	38.0	9.50	3.07	11.2	24.5	8.17	2.47	9.23	46.5	13.7	2.29
8	6	3/16	0.1875	0.1875	17.08	0.188	28.9	39.6	5.03	46.9	11.7	3.05	13.9	30.2	10.1	2.45	11.4	57.7	17	2.28
8	6	1/4	0.25	0.25	22.42	0.25	21	29	6.59	60.1	15	3.02	18	38.6	12.9	2.42	14.8	74.9	22.2	2.26
8	6	5/16	0.3125	0.3125	27.59	0.313	16.2	22.6	8.12	72.5	18.1	2.99	22	46.5	15.5	2.39	18	91.4	27.2	2.24
8	6	3/8	0.375	0.375	32.58	0.375	13	18.3	9.58	83.7	20.9	2.96	25.6	53.5	17.8	2.36	21	107	32	2.23