

Weight & Wall Thickness for Schedule Pipes

Theoretical Mass-01

Weight & Wall Thickness For Schedule Pipes - I

Nominal Bore Size	Nominal Bore Size	Outside Schedule 5dia	Schedule 5	Schedule 5	Schedule 10	Schedule 10	Schedule 40	Schedule 40
mm	inches	mm	Wall Thickness (mm)	Weight Kg/ m	Wall Thickness (mm)	Weight Kg/ m	Wall Thickness (mm)	Weight Kg/ m
3.18	1/8	10.30	0.89		1.24	0.28	1.73	0.37
6.35	1/4	13.70	1.24		1.66	0.49	2.24	0.63
9.52	3/8	17.20	1.24		1.65	0.63	2.31	0.85
12.70	1/2	21.30	1.65	0.80	2.11	1.00	2.77	1.27
19.05	3/4	26.70	1.65	1.02	2.11	1.28	2.87	1.68
25.40	1	33.40	1.65	1.29	2.77	2.09	3.38	2.50
31.82	1 1/4	42.20	1.65	1.65	2.77	2.69	2.56	3.38
38.10	1 1/2	48.30	1.65	1.90	2.77	3.11	3.68	4.05
50.80	2	60.30	1.65	3.34	2.77	3.92	3.91	5.44
63.50	2 1/2	73.00	2.11	3.69	3.05	5.26	5.16	8.63
76.20	3	88.90	2.11	4.51	3.05	6.45	5.49	11.30
88.90	3 1/2	101.60	2.11	5.18	3.05	7.41	5.74	13.60
101.60	4	114.30	2.11	5.94	3.05	8.38	6.02	16.10
127.00	5	141.30	2.77	9.34	3.40	11.60	6.55	21.80
152.40	6	168.30	2.77	11.30	3.40	13.80	7.11	29.10
203.20	8	219.10	2.77	14.80	3.76	20.00	8.18	42.80
254.00	10	273.00	3.40	22.60	4.19	27.80	8.74	62.30
304.80	12	323.80	3.96	32.00	4.57	36.17	9.52	72.80
355.60	14	355.60	3.96	34.50	4.78	41.60	11.13	94.49
406.40	16	406.40	4.19	41.78	4.78	47.60	12.70	124.00
457.20	18	457.20	4.19	47.60	4.78	53.63	14.27	156.73
508.00	20	508.00	4.78	59.65	5.54	69.0	15.06	184.08
609.60	24	609.60	5.54	82.98	6.35	94.98	17.45	256.22

Theoretical Mass-02

Weight & Wall Thickness For Schedule Pipes - II

Schedule 80	Schedule 80	Schedule 160	Schedule 160	XX 80	XX 80	XXS	XXS
Wall Thickness(mm)	Weight Kg/ m	Wall Thickness(mm)	Weight Kg/ m	Wall Thickness(mm)	Weight Kg/ m	Wall Thickness(mm)	Weight Kg/ m
2.41	0.47			2.41	0.47		
3.02	0.49			3.02	0.79		
3.20	1.10			3.20	1.10		
3.75	1.62	4.75	1.94	3.73	1.62	7.47	2.55
3.91	2.20	5.54	2.89	3.91	2.20	7.82	3.63
4.55	3.24	6.35	4.24	4.55	3.24	9.09	5.45
4.85	4.46	65.35	5.61	4.85	4.46	9.70	7.75
5.08	5.41	7.14	7.25	5.08	5.41	10.16	9.54
5.54	7.48	9.41	11.10	5.54	7.28	11.07	13.44
7.01	11.40	9.53	14.90	7.01	11.40	14.02	20.39
7.62	15.30	11.10	21.30	7.62	15.30	15.24	27.65
8.08	18.60			8.08	18.60		
8.56	22.30	13.80	33.60	8.56	22.30	17.12	40.99
9.53	31.00		49.20	9.53	31.00	21.95	79.11
12.70	64.60	23.00	111.20	12.70	64.60	22.23	107.80
15.10	96.00	28.60	172.40	15.10	96.00	25.40	155.50
17.45	132.00	33.32	240.00	17.45	132.00		
19.05	158.08	35.71	283.26	19.05	158.08		
21.41	204.40	40.46	367.40	21.41	204.04		
23.80	255.77	45.71	466.40	23.80	255.77		
26.19	312.90	49.99	567.75	26.19	312.90		
30.34	435.90	54.52	811.85	30.34	435.80		

Theoretical Mass-03

Weight of Rounds, Square & Hexagonal SS Bars

Size in inches, weight in Kgs. per Linear Foot

Weigh are Based on a Specific Gravity of 7.85

Size (inch)	Round	Square	Hexagon	Size (inch)	Round	Square	Hexagon
1/16	0.0045	0.0059		2 7/8	10.0000	12.7600	11.0500
1/8	0.0190	0.0241	0.0227	3	10.9000	13.9000	12.0300
3/16	0.0427	0.0545	0.0454	3 1/4	12.8000	16.3100	13.7900
1/4	0.0758	0.0963	0.0817	3 1/2	14.8400	18.9100	16.3900
5/16	0.1185	0.1512	0.1317	3 3/4	17.0000	21.7100	18.8100
3/8	0.1702	0.2170	0.1862	4	19.3800	24.7000	21.4600
7/16	0.2320	0.2956	0.2543	4 1/4	21.9100	27.8900	23.7130
1/2	0.3028	0.3859	0.3359	4 1/2	24.5600	31.2700	27.0950
9/16	0.3837	0.4887	0.4223	4 3/4	27.3500	34.8300	30.4510
5/8	0.4731	0.6026	0.5222	5	30.3000	38.5900	33.4510
11/16	0.5731	0.7300	0.6356	5 1/4	33.4200	42.5500	36.8800
3/4	0.6820	0.8688	0.7537	5 1/2	36.6700	46.6700	40.4750
13/16	0.8004	1.0200	0.8808	5 3/4	40.0900	51.0200	44.2380
7/8	0.9279	1.1820	1.0220	6	43.6000	55.5800	48.1700
15/16	1.0650	1.3570	1.1760	6 1/4	47.3500	60.3400	52.2550
1	1.2100	1.5420	1.3350	6 1/2	51.2000	65.2900	56.5230
1 1/8	1.5320	1.9550	1.6930	6 3/4	55.2500	70.4160	60.9720
1 1/4	1.8940	2.4100	2.0880	7	59.4000	75.7300	65.5580
1 3/8	2.2900	2.9200	2.5160	7 1/4	63.6900	81.2200	70.3250
1 1/2	2.7200	3.4700	3.01008	7 1/2	68.2100	86.8950	75.2750
1 5/8	3.2000	4.0750	3.5330	7 3/4	72.7800	92.7980	80.3600
1 3/4	3.7100	4.7300	4.0960	8	77.5000	98.8800	85.6250
1 7/8	4.2550	5.4250	4.7030	8 1/2	87.672	111.6400	96.6570
2	4.8500	6.1700	5.3500	9	99.7600	125.1680	108.3700
2 1/8	5.4700	6.9900	6.0400	9 1/2	109.5140	139.4250	120.7650
2 1/4	6.1500	7.8380	6.7600	10	121.3000	154.4960	133.7940
2 3/8	6.9850	8.7800	7.5500	10 1/2	133.7800	170.3410	147.5050
2 1/2	7.5700	9.6500	8.3600	11	146.7000	186.9570	161.8970
2 5/8	8.3500	10.6300	9.2100	11 1/2	160.450	204.3450	176.9700
2 3/4	9.1700	11.6800	10.1000	12	174.6000	222.4600	192.6780

Theoretical Mass-04

Weight & Thickness of SS Pipe & Tube For Boiler, Heat Exchangers

Size (inch)	O.D (mm)	10G (3.25)	12G (2.64)	14G (2.03)	16G (1.62)	18G (1.21)	20G (0.91)	22G (0.71)
1/4	6.35	0.075	0.070	0.065	0.058	0.046	0.037	0.030
5/16	7.93	0.114	0.105	0.089	0.079	0.060	0.048	0.038
3/8	9.52	0.152	0.135	0.133	0.097	0.080	0.058	0.046
1/2	12.70	0.226	0.200	0.157	0.134	0.105	0.079	0.063
3/4	19.05	0.386	0.326	0.256	0.215	0.161	0.124	0.097
1	25.40	0.541	0.450	0.351	0.294	0.218	0.167	0.131
1 1/4	31.82	0.696	0.580	0.448	0.375	0.275	0.200	
1 1/2	38.10	0.851	0.700	0.542	0.452	0.332		
1 3/4	44.45	1.020	0.832	0.646	0.530	0.390		
2	50.80	1.161	0.960	0.733	0.607	0.447		
2 1/4	57.15	1.315	1.085	0.828	0.687	0.504		
2 1/2	63.50	1.472	1.210	0.924	0.792	0.562		
2 3/4	69.85	1.630	1.338	1.022	0.847	0.619		
3	76.20	1.782	1.460	1.115	0.924	0.676		
3 1/2	88.90	2.092	1.718	1.306	1.082	0.791		
4	101.60	2.403	1.971	1.497	1.239	0.905		
4 1/2	114.30	2.713	2.224	1.608	1.397	1.020		
5	127.00	3.023	2.477	1.879	1.554	1.134		
5 1/2	139.70	3.336	2.730	2.070	1.713	1.250		
6	152.40	3.654	2.983	2.261	1.875	1.364		
6 1/2	165.10	3.975	3.256	2.452	2.028	1.478		