

ASTM A 53 - 89 PLAIN END PIPE STANDARD SIZES & WEIGHTS

Nominal Size	Outside Diameter		Wall Thickness			Weight			Test Pressure			
									Grade A		Grade B	
in	in	mm	in	mm	Sch. No	lb/ft	Kg/m	Kg/ft	Psi	Kg/cm ²	Psi	Kg/cm ²
-	-	-	-	-	-	-	-	-	-	-	-	-
1/2"	0.840	21.3	0.109	2.77	40 (STD)	0.85	1.27	3.9	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
3/4"	1.050	26.7	0.113	2.87	40 (STD)	1.13	1.69	0.51	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
1"	1.315	33.4	0.133	3.38	40 (STD)	1.68	2.50	0.76	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4"	1.660	42.2	0.140	3.56	40 (STD)	2.27	3.39	1.03	1200	70	1300	77
-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2"	1.900	48.3	0.145	3.68	40 (STD)	2.72	4.05	1.23	1200	70	1300	77
-	-	-	-	-	-	-	-	-	-	-	-	-
2"	2.375	60.3	0.154	3.91	40 (STD)	3.66	5.44	1.67	2300	162	2500	176
-	-	-	-	-	-	-	-	-	-	-	-	-
2 1/2"	2.875	73.0	0.203	5.16	40 (STD)	5.80	8.63	2.64	2500	176	2500	176
3"	3.500	88.9	0.125	3.18	-	4.51	6.72	2.05	1290	91	1500	105
3"	3.500	88.9	0.156	3.96	-	5.58	8.29	2.53	1600	112	1870	131
3"	3.500	88.9	0.188	4.78	-	6.66	9.92	3.02	1930	136	2260	159
3"	3.500	88.9	0.216	5.49	40 (STD)	7.58	11.29	3.44	2220	156	2500	176
3 1/2"	4.000	101.6	0.125	3.18	-	5.18	7.72	2.35	1120	79	1310	92
3 1/2"	4.000	101.6	0.156	3.96	-	6.41	9.53	2.90	1400	98	1640	115
3 1/2"	4.000	101.6	0.188	4.78	-	7.66	11.41	3.47	1690	119	1970	139
3 1/2"	4.000	101.6	0.226	5.74	40 (STD)	9.12	13.57	4.13	2030	143	2370	167
4"	4.500	114.3	0.125	3.18	-	5.85	8.71	2.65	1000	70	1170	82
4"	4.500	114.3	0.156	3.96	-	7.24	10.78	3.28	1250	88	1460	103
4"	4.500	114.3	0.188	4.78	-	8.67	12.91	3.93	1500	105	1750	123
4"	4.500	114.3	0.219	5.56	-	10.02	14.91	4.54	1750	123	2040	143
4"	4.500	114.3	0.237	6.02	40 (STD)	10.80	16.07	4.89	1900	134	2210	155
5"	5.563	141.3	0.156	3.96	-	9.02	13.41	4.09	1010	71	1180	83
5"	5.563	141.3	0.188	4.78	-	10.80	16.09	4.89	1220	86	1420	100
5"	5.563	141.3	0.219	5.56	-	12.51	18.61	5.67	1420	100	1650	116
5"	5.563	141.3	0.258	6.55	40 (STD)	14.63	21.77	6.63	1670	117	1950	137
6"	6.625	168.3	0.188	4.78	-	12.94	19.27	5.86	1020	72	1190	84
6"	6.625	168.3	0.219	5.56	-	15.00	22.31	6.79	1190	84	1390	98
6"	6.625	168.3	0.250	6.35	-	17.04	25.36	7.72	1360	96	1580	111
6"	6.625	168.3	0.280	7.11	40 (STD)	18.99	28.26	8.60	1520	107	1780	125
8"	8.625	219.1	0.188	4.78	-	16.96	25.26	7.68	780	55	920	65
8"	8.625	219.1	0.203	5.16	-	18.28	27.22	8.28	850	60	1000	70
8"	8.625	219.1	0.219	5.56	-	19.68	29.28	8.92	910	64	1070	75
8"	8.625	219.1	0.250	6.35	20	22.38	33.31	10.14	1040	73	1220	86
8"	8.625	219.1	0.277	7.04	30	24.72	36.31	11.20	1160	82	1350	95
8"	8.625	219.1	0.312	7.92	-	27.73	41.24	12.56	1300	91	1520	107
8"	8.625	219.1	0.322	8.18	40 (STD)	28.58	42.55	12.95	1340	94	1570	110
10"	10.750	273.0	0.188	4.78	-	21.23	31.62	9.62	630	44	730	51
10"	10.750	273.0	0.203	5.16	-	22.89	34.08	10.37	680	48	800	56
10"	10.750	273.0	0.219	5.56	-	24.65	36.67	11.17	730	51	860	60
10"	10.750	273.0	0.250	6.35	20	28.06	41.75	12.72	840	59	980	69
10"	10.750	273.0	0.279	7.09	-	31.23	46.49	14.15	930	65	1090	77
10"	10.750	273.0	0.307	7.80	30	34.27	51.01	15.53	1030	72	1200	84
10"	10.750	273.0	0.344	8.74	-	38.27	56.96	17.34	1150	81	1340	94
10"	10.750	273.0	0.365	9.27	40 (STD)	40.52	60.29	18.36	1220	86	1430	101

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12	12.750	323.8	0.203	5.16	-	27.23	40.55	12.34	570	40	670	47
12	12.750	323.8	0.219	5.56	-	29.34	43.63	13.29	620	44	720	51
12	12.750	323.8	0.250	6.35	20	33.41	49.71	15.14	710	50	820	58
12	12.750	323.8	0.281	7.14	-	37.46	55.75	16.97	790	56	930	65
12	12.750	323.8	0.312	7.92	-	41.48	61.69	18.80	880	62	1030	72
12	12.750	323.8	0.330	8.38	30	43.81	65.18	19.85	930	65	1090	77
12	12.750	323.8	0.344	8.74	-	45.62	67.90	20.67	970	68	1130	79
12	12.750	323.8	0.375	9.52	-	49.61	73.78	22.48	1060	75	1240	87
12	12.750	323.8	0.406	10.31	40 (STD)	53.57	79.70	24.28	1150	81	1340	94
14	14.000	355.6	0.210	5.33	-	30.96	46.04	14.03	540	38	630	44
14	14.000	355.6	0.219	5.56	-	32.26	47.99	14.62	560	39	660	46
14	14.000	355.6	0.250	6.35	10	36.75	54.69	16.65	640	45	750	53
14	14.000	355.6	0.281	7.14	-	41.21	61.35	18.67	720	51	840	59
14	14.000	355.6	0.312	7.92	20	45.65	67.90	20.69	800	56	940	66
14	14.000	355.6	0.344	8.74	-	50.22	74.76	22.76	880	62	1030	72
14	14.000	355.6	0.375	9.52	30	54.62	81.25	24.75	960	67	1120	79
14	14.000	355.6	0.438	11.13	40 (STD)	63.50	94.55	28.78	1130	79	1310	92
16	16.000	406.4	0.219	5.56	-	36.95	54.96	16.74	490	34	570	40
16	16.000	406.4	0.250	6.35	10	42.09	62.64	19.07	560	39	660	46
16	16.000	406.4	0.281	7.14	-	47.22	70.30	21.40	630	44	740	52
16	16.000	406.4	0.312	7.92	20	52.32	77.83	23.71	700	49	820	58
16	16.000	406.4	0.344	8.74	-	57.57	85.71	26.09	770	54	900	63
16	16.000	406.4	0.375	9.52	30 (STD)	62.64	93.17	28.39	840	59	980	69
16	16.000	406.4	0.438	11.13	-	72.86	108.49	33.02	990	70	1150	81
16	16.000	406.4	0.469	11.91	-	77.87	115.86	35.28	1060	75	1230	86
16	16.000	406.4	0.500	12.70	40 (XS)	82.85	123.30	37.54	1120	79	1310	92
18	18.000	457.2	0.250	6.35	10	47.44	70.60	21.50	500	35	580	41
18	18.000	457.2	0.281	7.14	-	53.23	79.24	24.12	560	39	660	46
18	18.000	457.2	0.312	7.92	20	58.99	87.75	26.73	620	44	730	51
18	18.000	457.2	0.344	8.74	-	64.93	96.66	29.42	690	49	800	56
18	18.000	457.2	0.375	9.52	STD	70.65	105.10	32.02	750	53	880	62
18	18.000	457.2	0.406	10.31	-	76.36	113.62	34.60	810	57	950	67
18	18.000	457.2	0.438	11.13	30	82.23	122.43	37.26	880	62	1020	72
18	18.000	457.2	0.469	11.91	-	87.89	130.78	39.83	940	66	1090	77
18	18.000	457.2	0.500	12.70	XS	93.54	139.20	42.39	1000	70	1170	82
18	18.000	457.2	0.562	14.27	40	104.76	155.87	47.48	1120	79	1310	92