



**STANDARD ASTM A-53 SCHEDULE 40 GRADE A & B BLACK & GALVANIZED STEEL PIPE**

Nominal Pipe Size	Outside Diameter		Wall Thickness	Plan End				Threads & Coupling				Threads per 25.4 mm.	Number of pieces per bundle
				Calculated Weight		Test Pressure		Calculated Weight		Test Pressure			
						Grade A	Grade B			Grade A	Grade B		
in	in	mm.	mm.	lb. / ft.	kg. / m.	psi (Mpa)	psi (Mpa)	lb. / ft.	kg. / m.	psi (Mpa)	psi (Mpa)		
1/2	0.840	21.3	2.77	0.85	1.27	700 (4.83)	700 (4.83)	0.85	1.27	700 (4.83)	700 (4.83)	14	169
3/4	1.050	26.7	2.87	1.13	1.69	700 (4.83)	700 (4.83)	1.13	1.69	700 (4.83)	700 (4.83)	14	127
1	1.315	33.4	3.38	1.68	2.50	700 (4.83)	700 (4.83)	1.68	2.50	700 (4.83)	700 (4.83)	11 1/2	91
1 1/4	1.660	42.2	3.56	2.27	3.39	1,200 (8.27)	1,300 (8.96)	2.28	3.40	1,000 (6.89)	1,100 (7.58)	11 1/2	61
1 1/2	1.900	48.3	3.68	2.72	4.05	1,200 (8.27)	1,300 (8.96)	2.73	4.04	1,000 (6.89)	1,100 (7.58)	11 1/2	44
2	2.375	60.3	3.91	3.65	5.44	2,300 (15.86)	2,500 (17.24)	3.68	5.46	2,300 (15.86)	2,500 (17.24)	11 1/2	37
2 1/2	2.875	73.0	5.16	5.79	8.63	2,500 (17.24)	2,500 (17.24)	5.82	8.67	2,500 (17.24)	2,500 (17.24)	8	24
3	3.500	88.9	5.49	7.58	11.29	2,220 (15.31)	2,500 (17.24)	7.62	11.35	2,200 (15.31)	2,500 (17.24)	8	19
3 1/2	4.000	101.6	5.74	9.11	13.57	2,030 (14.00)	2,370 (16.34)	9.20	13.71	2,000 (13.75)	2,400 (16.55)	8	14
4	4.500	114.3	6.02	10.79	16.07	1,900 (13.10)	2,210 (15.24)	10.89	16.23	1,900 (13.10)	2,200 (15.17)	8	14
5	5.563	141.3	6.55	14.62	21.77	1,670 (11.51)	1,950 (13.44)	14.81	22.07	1,700 (11.72)	1,900 (13.10)	8	7
6	6.625	168.3	7.11	18.97	28.26	1,520 (10.48)	1,780 (12.27)	19.18	28.58	1,500 (10.34)	1,800 (12.41)	8	7
8	8.625	219.1	8.18	28.58	42.55	1,340 (9.20)	1,570 (10.80)	29.35	43.73	1,300 (9.00)	1,600 (11.00)	8	5
10	10.750	273.0	9.27	40.52	60.29	1,220 (8.40)	1,430 (9.90)	41.49	63.36	1,200 (8.30)	1,400 (9.70)	8	5
12	12.750	323.8	10.31	53.57	79.70	1,150 (7.90)	1,340 (9.20)						
14	14.000	355.6	11.13	63.50	94.55	1,130 (7.80)	1,310 (9.00)						
16	16.000	406.4	12.70	82.85	123.30	1,120 (7.70)	1,310 (9.00)						
18	18.000	457.0	14.27	104.76	155.87	1,520 (10.48)	1,310 (9.00)						

ELECTRIC RESISTANCE WELDED	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES	
	C	Mn	P	S	TENSILE STRENGTH	YIELD STRENGTH
(TYPE-E)	MAX %	MAX %	MAX %	MAX %	MIN	MIN
Grade A	0.25	0.95	0.05	0.06	330 N/mm <sup>2</sup>	205 N/mm <sup>2</sup>
Grade B	0.30	1.20	0.05	0.06	415 N/mm <sup>2</sup>	240 N/mm <sup>2</sup>

DIMENSION TOLERANCE

Outside Diameter : 1 1/2" and under  $\pm 1/64$ " (0.4 mm.)  
: 2" and over  $\pm 1$  %

Thickness : - 12.5 % , + not limit

Weight :  $\pm 10$  %