



**Bakrie Pipe
Industries**



API Spec 5L

PT. Bakrie Pipe Industries is a pioneer of steel pipe manufacturing with established network in line with Indonesia's development.

Supported by approximately 600 employees, mostly spearheading the technical department across the processing plant and in the field.

Experienced in production process for more than half a decade with a systematic delivery process from the start of production process with high efficiency and accuracy.

STEEL LINE PIPE FOR :

- Onshore
- Offshore
- Sour Service

Commercial Office :

Bakrie Tower, 7th Floor
Rasuna Epicentrum
Jl. H.R. Rasuna Said
Jakarta Selatan 12940, Indonesia
Telephone : (62-21) 527 7035, 2994 1270
Facsimile : (62-21) 522 5055, 2994 1266 - 69
E-mail : commercial@e-bakrie.com

Steel Pipe Mill :

Jl. Raya Pejuang, Medan Satria
Kota Bekasi 17131 - Indonesia
Telephone : (62-21) 887 1135
Facsimile : (62-21) 8897 6606, 8897 6705
Website : www.e-bakrie.com

Nominal Size	Outside Diameter		Wall Thickness		Weight		Minimum Standard Test Pressure							
							Grade B or L245	Grade 42 or L290	Grade 46 or L360	Grade 52 or L360	Grade 56 or L390	Grade 60 or L415	Grade 65 or L450	Grade 70 or L485
inch	inch	mm	inch	mm	lb/ft	kg/m	psi	psi	psi	psi	psi	psi	psi	
2 3/8	2.375	60,3	0.083	2,1	2.03	3,01	1480	1760						
			0.109	2,8	2.64	3,97	1980	2350						
			0.125	3,2	3.01	4,51	226	2680						
			0.141	3,6	3.37	5,03	2470	2970						
			0.154	3,9	3.66	5,42	2470	2970						
2 7/8	2.875	73,0	0.083	2,1	2.48	3,67	1230	1450						
			0.109	2,8	3.22	4,85	1630	1940						
			0.125	3,2	3.67	5,51	1870	2220						
			0.141	3,6	4.12	6,16	2100	2490						
			0.156	4,0	4.53	6,81	2330	2770						
			0.172	4,4	4.97	7,44	2470	2970						
			0.188	4,8	5.40	8,07	2470	2970						
3 1/2	3.500	88,9	0.109	2,8	3.95	5,95	1340	1590						
			0.125	3,2	4.51	6,76	1530	1820						
			0.141	3,6	5.06	7,57	1730	2050						
			0.156	4,0	5.58	8,37	1920	2270						
			0.172	4,4	6.12	9,17	2110	2500						
			0.188	4,8	6.66	9,95	2300	2730						
			0.216	5,5	7.58	11,31	2470	2970						
4 1/2	4.500	114,3	0.125	3,2	5.85	8,77	1190	1410	1560	1750				
			0.141	3,6	6.57	9,83	1340	1590	1750	1970				
			0.156	4,0	7.24	10,88	1490	1770	1950	2190				
			0.172	4,4	7.96	11,92	1640	1950	2140	2410				
			0.188	4,8	8.67	12,96	1790	2120	2340	2630				
			0.203	5,2	9.32	13,99	1940	2300	2530	2850				
			0.219	5,6	10.02	15,01	2090	2480	2730	2970				
			0.237	6,0	10.80	16,02	2240	2650	2920	2970				
			0.250	6,4	11.36	17,03	2390	2830	2970	2970				
5 9/16	5.563	141,3	0.188	4,8	10.80	16,16	1450	1720	1890	2130				
			0.219	5,6	12.51	18,74	1690	2000	2210	2480				
			0.258	6,6	14.63	21,92	1990	2360	2600	2930				
6 5/8	6.625	168,3	0.172	4,4	11.87	17,78	1110	1650	1820	2050				
			0.188	4,8	12.94	19,35	1220	1800	1990	2230				
			0.203	5,2	13.94	20,91	1320	1950	2150	2420				
			0.219	5,6	15.00	22,47	1420	2100	2320	2610				
			0.250	6,4	17.04	25,55	1620	2400	2650	2980				
			0.280	7,1	18.99	28,22	1800	2660	2940	2970				
			0.312	7,9	21.06	31,25	2000	2960	2970	2970				
			0.344	8,7	23.10	34,24	2970	2970	2970	2970				
			0.375	9,5	25.05	37,2	2970	2970	2970	2970				
8 5/8	8.625	219,1	0.188	4,8	16.96	25,37	930	1380	1530	1720	1860			
			0.203	5,2	18.28	27,43	1010	1500	1650	1860	2020			
			0.219	5,6	19.68	29,48	1090	1610	1780	2000	2170			
			0.250	6,4	22.38	33,57	1240	1850	2030	2290	2480			
			0.277	7,0	24.72	36,61	1360	2020	2220	2500	2710			
			0.312	7,9	27.73	41,14	1540	2280	2510	2820	2970			
			0.322	8,2	28.58	42,65	1600	2360	2610	2930	2970			
			0.344	8,7	30.45	45,14	1690	2510	2760	2970	2970			
			0.375	9,5	33.07	49,10	1850	2740	2970	2970	2970			
			0.438	11,1	38.33	56,94	2970	2970	2970	2970	2970			
			0.500	12,7	43.43	64,64	2970	2970	2970	2970	2970			
10 3/4	10.750	273,1	0.188	4,8	21.23	31,76	750	1260	1390	1560	1690	1800	1950	2100
			0.203	5,2	22.89	34,35	810	1360	1500	1690	1830	1950	2110	2280
			0.219	5,6	24.65	36,94	870	1470	1620	1820	1970	2100	2280	2450
			0.250	6,4	28.06	42,09	1000	1680	1850	2080	2260	2400	2600	2800
			0.279	7,1	31.23	46,57	1110	1860	2050	2310	2500	2660	2890	2970
			0.307	7,8	34.27	51,03	1220	2040	2250	2540	2750	2920	2970	2970
			0.344	8,7	38.27	56,72	1360	2280	2510	2830	2970	2970	2970	2970
			0.365	9,3	40.52	60,50	1450	2440	2690	2970	2970	2970	2970	2970
			0.438	11,1	48.28	71,72	1730	2910	2970	2970	2970	2970	2970	2970
			0.500	12,7	54.79	81,55	1980	2970	2970	2970	2970	2970	2970	2970

Marking Example :

Nominal Size	Outside Diameter		Wall Thickness		Weight		Minimum Standard Test Pressure										
							Grade B or L245	Grade 42 or L290	Grade 46 or L360	Grade 52 or L360	Grade 56 or L390	Grade 60 or L415	Grade 65 or L450	Grade 70 or L485			
inch	inch	mm	inch	mm	lb/ft	kg/m	psi	psi	psi	psi	psi	psi	psi	psi			
12.3/4	12.750	323,9	0.203	5,2	27.23	40,87	680	1150	1270	1430	1550	1640	1780	1920			
			0.219	5,6	29.34	43,96	740	1240	1360	1530	1660	1770	1920	2070			
			0.250	6,4	33.41	50,11	840	1410	1560	1750	1900	2020	2190	2360			
			0.281	7,1	37.46	55,47	930	1570	1730	1950	2110	2240	2430	2620			
			0.312	7,9	41.48	61,56	1040	1750	1920	2160	2350	2500	2710	2920			
			0.330	8,4	43.81	65,35	1110	1860	2050	2300	2500	2650	2880	2970			
			0.344	8,7	45.62	67,62	1140	1920	2120	2380	2580	2750	2970	2970			
			0.375	9,5	49.61	73,65	1250	2100	2310	2600	2820	2970	2970	2970			
			0.406	10,3	53.57	79,65	1360	2280	2510	2820	2970	2970	2970	2970			
			0.438	11,1	57.65	85,62	1460	2450	2700	2970	2970	2970	2970	2970			
			0.500	12,7	65.48	97,46	1670	2810	2970	2970	2970	2970	2970	2970			
			0.562	14,3	73.22	109,18	1880	2970	2970	2970	2970	2970	2970	2970			
			14	14.000	355,6	0.219	5,6	32.26	48,33	670	1130	1240	1400	1520	1610	1750	1880
0.250	6,4	36.75				55,11	770	1290	1420	1600	1730	1840	2000	2150			
0.281	7,1	41.21				61,02	850	1430	1580	1770	1920	2040	2220	2390			
0.312	7,9	45.65				67,74	950	1590	1750	1970	2140	2270	2470	2660			
0.344	8,7	50.22				74,22	1040	1750	1930	2170	2350	2500	2720	2920			
0.375	9,5	54.62				81,08	1140	1910	2110	2370	2570	2730	2970	2970			
0.406	10,3	59				87,71	1230	2070	2290	2570	2790	2960	2970	2970			
0.438	11,1	63.5				94,30	1330	2230	2460	2770	2970	2970	2970	2970			
0.469	11,9	67.84				100,86	1430	2400	2640	2970	2970	2970	2970	2970			
0.500	12,7	72.16				107,39	1520	2560	2820	2970	2970	2970	2970	2970			
0.562	14,3	80.73				120,36	1710	2880	2970	2970	2970	2970	2970	2970			
16	16.000	406,4				0.250	6,4	42.09	63,13	670	1130	1240	1400	1520	1610	1750	1880
						0.281	7,1	47.22	69,91	740	1250	1380	1550	1680	1790	1940	2090
			0.312	7,9	52.32	77,63	830	1390	1530	1730	1870	1990	2160	2320			
			0.344	8,7	57.57	85,32	910	1530	1690	1900	2060	2190	2380	2560			
			0.375	9,5	62.64	92,98	1000	1670	1840	2070	2250	2390	2600	2790			
			0.406	10,3	67.68	100,61	1080	1810	2000	2250	2440	2590	2810	2970			
			0.438	11,1	72.86	108,20	1160	1960	2150	2420	2630	2800	2970	2970			
			0.469	11,9	77.87	115,77	1250	2100	2310	2600	2820	2970	2970	2970			
			0.500	12,7	82.85	123,30	1330	2240	2470	2770	2970	2970	2970	2970			
			0.562	14,3	92.75	138,27	1500	2520	2780	2970	2970	2970	2970	2970			
			0.625	15,9	102.72	153,11	1670	2800	2970	2970	2970	2970	2970	2970			
			18	18.000	457,0	0.250	6,4	47.44	71,12	600	1000	1110	1240	1350	1430	1560	1670
						0.281	7,1	53.23	78,77	660	1110	1230	1380	1500	1590	1730	1860
0.312	7,9	58.99				87,49	740	1240	1360	1530	1650	1770	1920	2070			
0.344	8,7	64.93				96,18	810	1360	1500	1690	1830	1950	2110	2280			
0.375	9,5	70.65				104,84	890	1490	1640	1850	2000	2130	2310	2480			
0.406	10,3	76.36				113,46	960	1610	1780	2000	2170	2310	2500	2670			
0.438	11,1	82.23				122,05	1040	1740	1920	2160	2340	2490	2700	2900			
0.469	11,9	87.89				130,62	1110	1860	2050	2310	2510	2670	2890	2970			
0.500	12,7	93.54				139,15	1180	1990	2190	2470	2670	2840	2970	2970			
0.562	14,3	104.76				156,11	1330	2240	2470	2780	2970	2970	2970	2970			
0.625	15,9	116.09				172,95	1480	2490	2740	2970	2970	2970	2970	2970			
20	20.000	508,0				0.250	6,4	52.78	79,16	540	960	1050	1180	1280	1370	1480	1590
						0.281	7,1	59.23	87,70	600	1060	1170	1310	1420	1510	1640	1770
			0.312	7,9	65.66	97,43	660	1180	1300	1460	1580	1690	1830	1970			
			0.344	8,7	72.28	107,12	730	1300	1430	1610	1750	1860	2010	2170			
			0.375	9,5	78.67	116,78	800	1420	1560	1760	1910	2030	2200	2370			
			0.406	10,3	85.04	126,41	860	1540	1690	1910	2070	2200	2380	2570			
			0.438	11,1	91.59	136,01	930	1660	1830	2050	2230	2370	2570	2770			
			0.469	11,9	97.92	145,58	1000	1780	1960	2200	2390	2540	2750	2960			
			0.500	12,7	104.23	155,12	1070	1900	2090	2350	2550	2710	2940	2970			
			0.562	14,3	116.78	174,10	1200	2130	2350	2650	2870	2970	2970	2970			
			0.625	15,9	129.45	192,95	1330	2370	2610	2940	2970	2970	2970	2970			
			24	24.000	610,0	0.250	6,4	63.47	95,26	450	800	880	990	1070	1140	1230	1330
						0.281	7,1	71.25	105,56	500	880	970	1090	1190	1260	1370	1470
0.312	7,9	79.01				117,30	550	980	1080	1220	1320	1400	1520	1640			
0.344	8,7	86.99				129,00	610	1080	1190	1340	1450	1550	1680	180			
0.375	9,5	94.71				140,68	660	1180	1300	1460	1590	1690	1830	1970			
0.406	10,3	102.4				152,32	720	1280	1410	1590	1720	1830	1990	2140			
0.438	11,1	110.32				163,93	780	1380	1520	1710	1850	1970	2140	2300			
0.469	11,9	117.98				175,51	830	1480	1630	1830	1990	2110	2290	2470			
0.500	12,7	125.61				187,06	890	1580	1740	1960	2120	2260	2450	2640			
0.562	14,3	140.81				210,07	1000	1780	1960	2200	2390	2540	2760	2970			
0.625	15,9	156.17				232,94	1110	1980	2180	2450	2660	2820	2970	2970			



**Bakrie Pipe
Industries**

ASTM A 53-A

PT. Bakrie Pipe Industries is a pioneer of steel pipe manufacturing with established network in line with Indonesia's development.

Supported by approximately 600 employees, mostly spearheading the technical department across the processing plant and in the field.

Experienced in production process for more than half a decade with a systematic delivery process from the start of production process with high efficiency and accuracy.

GALVANIZE PIPE FOR GENERAL PURPOSE

Grade A

- Conduit pipe
- Hydrant

Commercial Office :

Bakrie Tower, 7th Floor
Rasuna Epicentrum
Jl. H.R. Rasuna Said
Jakarta Selatan 12940, Indonesia
Telephone : (62-21) 527 7035, 2994 1270

Steel Pipe Mill :

Jl. Raya Pejuang, Medan Satria
Kota Bekasi 17131 - Indonesia
Telephone : (62-21) 887 1135
Facsimile : (62-21) 8897 6606, 8897 6705
Website : www.e-bakrie.com

STEEL LINE PIPE

ASTM A53-A

ISO 9001 : 2008
OHSAS 18001 : 2007
CERTIFIED

Specification

Nominal Size	Outside Diameter		Wall Thickness		Weight Class	Schedule No	Weight		Test Pressure (Min) Grade A		
	inch	mm	inch	mm			lb/ft	kg/m	psi	kg/cm ²	bar
1/2	0.840	21,3	0.109	2,77	STD	40	0.85	1,27	700	49	48
3/4	1.050	26,7	0.113	2,87	STD	40	1.13	1,69	700	49	48
1	1.315	33,4	0.133	3,38	STD	40	1.68	2,50	700	49	48
1 1/4	1.660	42,2	0.14	3,56	STD	40	2.27	3,39	1200	84	83
1 1/2	1.900	48,3	0.145	3,68	STD	40	2.72	4,05	1200	84	83
2	2.375	60,3	0.154	3,91	STD	40	3.66	5,44	2300	162	159
2 1/2	2.875	73,0	0.203	5,16	STD	40	5.80	8,63	2500	176	172
3	3.500	88,9	0.125	3,18	-	-	4.51	6,72	1290	91	89
			0.156	3,96	-	-	5.58	8,29	1600	112	110
			0.188	4,78	-	-	6.66	9,92	1930	136	133
			0.216	5,49	STD	40	7.58	11,29	2220	156	153
4			0.125	3,18	-	-	5.85	8,71	1000	70	69
			0.156	3,96	-	-	7.24	10,78	1250	88	86
			0.172	4,37	-	-	7.94	11,85	1380	97	95
			0.188	4,78	-	-	8.67	12,91	1500	105	103
			0.203	5,16	-	-	9.30	13,89	1630	115	112
			0.219	5,56	-	-	10.02	14,91	1750	123	121
			0.237	6,02	STD	40	10.80	16,07	1900	134	131
			0.25	6,35	-	-	11.36	16,90	2000	141	138
5			0.281	7,14	-	-	12.67	18,87	2250	158	155
			0.156	3,96	-	-	9.02	13,41	1010	71	70
			0.188	4,78	-	-	10.80	16,09	1220	86	84
			0.219	5,56	-	-	12.51	18,61	1420	100	98
6			0.258	6,55	STD	40	14.63	21,77	1670	117	115
			0.188	4,78	-	-	12.94	19,27	1020	72	70
			0.203	5,16	-	-	13.91	20,76	1100	77	76
			0.219	5,56	-	-	15.00	22,31	1190	84	82
			0.250	6,35	-	-	17.04	25,36	1360	96	94
			0.280	7,11	STD	40	18.99	28,26	1520	107	105
			0.312	7,92	-	-	21.06	31,32	1700	120	117
			0.344	8,74	-	-	23.10	34,39	1870	131	129
8			0.375	9,52	-	-	25.05	37,28	2040	143	141
			0.188	4,78	-	-	16.96	25,26	780	55	54
			0.203	5,16	-	-	18.28	27,22	850	60	59
			0.219	5,56	-	-	19.68	29,28	910	64	63
			0.250	6,35	-	20	22.38	33,31	1040	73	72
			0.277	7,04	-	30	24.72	36,31	1160	82	80
			0.312	7,92	-	-	27.73	41,24	1300	91	90
			0.322	8,18	STD	40	28.58	42,55	1340	94	92
			0.344	8,74	-	-	30.45	45,34	1440	101	99
			0.375	9,52	-	-	33.07	49,20	1570	110	108
			10			0.406	10,31	-	60	35.67	53,08
0.438	11,13	-				-	38.33	57,08	1830	129	126
0.500	12,70	XS				80	43.43	64,64	2090	147	144
0.188	4,78	-				-	21.23	31,62	630	44	43
0.203	5,16	-				-	22.89	34,08	680	48	47
0.219	5,56	-				-	24.65	36,67	730	51	50
0.250	6,35	-				20	28.06	41,75	840	59	58
0.279	7,09	-				-	31.23	46,49	930	65	64
0.307	7,80	-				30	34.27	51,01	1030	72	71
0.344	8,74	-				-	38.27	56,96	1150	81	79
12			0.365	9,27	STD	40	40.52	60,29	1220	86	84
			0.438	11,13	-	-	48.28	71,87	1470	103	101
			0.500	12,70	XS	60	54.79	81,52	1670	117	115
			0.203	5,16	-	-	27.23	40,55	570	40	39
			0.219	5,56	-	-	29.34	43,63	620	44	43
			0.250	6,35	-	20	33.41	49,71	710	50	49
			0.281	7,14	-	-	37.46	55,75	790	56	54
			0.312	7,92	-	-	41.48	61,69	880	62	61
12			0.330	8,38	-	30.00	43.81	65,18	930	65	64
			0.344	8,74	-	-	45.62	67,90	970	68	67
			0.375	9,52	STD	-	49.61	73,78	1060	75	73
			0.406	10,31	-	40	53.57	79,70	1150	81	79
			0.438	11,13	-	-	57.65	85,82	1240	87	85
			0.500	12,70	XS	-	65.48	97,43	1410	99	97
			0.562	14,27	-	60	73.22	108,92	1590	112	110

STEEL LINE PIPE

ASTM A53-A

ISO 9001 : 2008
OHSAS 18001 : 2007
CERTIFIED

Specification

Nominal Size	Outside Diameter		Wall Thickness		Weight Class	Schedule No	Weight		Test Pressure (Min) Grade A		
	inch	mm	inch	mm			lb/ft	kg/m	psi	kgf/cm ²	bar
14	14.000	355.6	0.210	5.33	-	-	30.96	46.04	540	38	37
			0.219	5.56	-	-	32.26	47.99	560	39	39
			0.250	6.35	-	-	36.75	54.69	640	45	44
			0.281	7.14	-	-	41.21	61.35	720	51	50
			0.312	7.92	-	-	45.65	67.90	800	56	55
			0.344	8.74	-	-	50.22	74.76	880	62	61
			0.375	9.52	STD	-	54.62	81.25	960	67	66
			0.406	10.31	-	-	58.82	87.79	1040	73	72
			0.438	11.13	-	-	63.50	94.55	1130	79	78
			0.469	11.91	-	-	67.84	100.94	1210	85	83
			0.500	12.70	XS	-	72.16	107.39	1290	91	89
0.562	14.27	-	-	80.48	120.11	1450	102	100			
16	16.000	406.4	0.219	5.56	-	-	36.95	54.96	490	34	34
			0.250	6.35	-	-	42.09	62.64	560	39	39
			0.281	7.14	-	-	47.22	70.30	630	44	43
			0.312	7.92	-	-	52.32	77.83	700	49	48
			0.344	8.74	-	-	57.57	85.71	770	54	53
			0.375	9.52	STD	-	62.64	93.17	840	59	58
			0.406	10.31	-	-	67.48	100.71	910	64	63
			0.438	11.13	-	-	72.86	108.49	990	70	68
			0.469	11.91	-	-	77.87	115.86	1060	75	73
			0.500	12.70	XS	-	82.85	123.30	1120	79	77
			0.562	14.27	-	-	92.46	138.00	1260	89	87
0.625	15.88	-	-	102.47	152.94	1410	99	97			
18	18.000	457.2	0.250	6.35	-	10	47.44	70.60	500	35	34
			0.281	7.14	-	-	53.23	79.24	560	39	39
			0.312	7.92	-	20	58.99	87.75	620	44	43
			0.344	8.74	-	-	64.93	96.66	690	49	48
			0.375	9.52	STD	-	70.65	105.10	750	53	52
			0.406	10.31	-	-	76.36	113.58	810	57	56
			0.438	11.13	-	-	82.23	122.43	880	62	61
			0.469	11.91	-	-	87.89	130.78	940	66	65
			0.500	12.70	XS	30	93.54	139.20	1000	70	69
			0.562	14.27	-	-	104.76	155.87	1120	79	77
			0.625	15.88	-	-	115.74	172.75	1250	88	86
20	20.000	508.0	0.250	6.35	-	10	52.78	78.55	450	32	31
			0.281	7.14	-	-	59.23	88.19	510	36	35
			0.312	7.92	-	-	65.66	97.67	560	39	39
			0.344	8.74	-	-	72.28	107.60	620	44	43
			0.375	9.52	STD	20	78.67	117.02	680	48	47
			0.406	10.31	-	-	84.04	126.53	730	51	50
			0.438	11.13	-	-	91.59	136.37	790	56	54
			0.469	11.91	-	-	97.92	145.70	850	60	59
			0.500	12.70	XS	30	10.23	155.12	900	63	62
			0.562	14.27	-	-	116.41	173.75	1010	71	70
			0.625	15.88	-	-	129.13	192.73	1130	79	78
24	24.000	609.6	0.250	6.35	-	10	63.47	94.46	380	27	26
			0.281	7.14	-	-	71.25	106.08	420	30	29
			0.312	7.92	-	-	79.01	117.51	470	33	32
			0.344	8.74	-	-	86.99	129.50	520	37	36
			0.375	9.52	STD	20	94.71	140.88	560	39	39
			0.406	10.31	-	-	102.40	152.37	610	43	42
			0.438	11.13	-	-	110.32	164.26	660	46	46
			0.469	11.91	-	-	117.98	175.54	700	49	48
			0.500	12.70	XS	-	125.61	186.94	750	53	52
			0.562	14.27	-	30	140.81	209.50	840	59	58
			0.625	15.88	-	-	155.89	232.67	940	66	65

Chemical Composition (% max) :

ASTM A-53 Grade A	Carbon	Manganese	Phosphorus	Sulfur	Copper	Nickel	Chromium	Molybdenum	Vanadium	Cu+Ni+Cr+Mo+V
	0.25	0.95	0.05	0.045	0.40	0.40	0.4	0.15	0.08	1.00

Mechanical Properties :

Grade A	Yield Strength (min)	Tensile Strength (min)
	30 000 psi (205 MPa)	48 000 psi (330 MPa)

Galvanized :

Zinc Coating Weight : 550 gr/m² (77 µm) minimum

Marking :  ASTM A53-A/E 4" STD SCH.40 x 6000 mm
PIPE NO : HEAT NO :

Bakrie Pipe Industries



**Bakrie Pipe
Industries**



PT. Bakrie Pipe Industries is a pioneer of steel pipe manufacturing with established network in line with Indonesia's development.

Supported by approximately 600 employees, mostly spearheading the technical department across the processing plant and in the field.

Experienced in production process for more than half a decade with a systematic delivery process from the start of production process with high efficiency and accuracy.

STEEL PIPE FOR GENERAL PURPOSE BAKRIE STANDARD SPECIFICATION

- Plumbing Pipe
- Property : Railing
Gate
Canopy

Commercial Office :

Bakrie Tower, 7th Floor
Rasuna Epicentrum
Jl. H.R. Rasuna Said
Jakarta Selatan 12940, Indonesia
Telephone : (62-21) 527 7035, 2994 1270

Steel Pipe Mill :

Jl. Raya Perjuangan, Medan Satria
Kota Bekasi 17131 - Indonesia
Telephone : (62-21) 887 1135
Facsimile : (62-21) 8897 6606, 8897 6705
Website : www.e-bakrie.com

Specification

Nominal Size		Outside Diameter		Wall Thickness	Weight
<i>inch</i>	<i>mm</i>	<i>mm (max)</i>	<i>mm (min)</i>	<i>mm</i>	<i>kg/m</i>
1/2	21.3	21.7	21.1	1.80	0.87
3/4	26.8	27.2	26.4	1.80	1.11
1	33.8	34.2	33.4	1.80	1.42
1 1/4	42.5	42.9	42.1	1.80	1.80
1 1/2	48.4	48.8	48.0	1.80	2.06
2	60.3	60.8	59.8	1.80	2.59
2 1/2	76.0	76.6	75.4	2.30	4.15
3	88.8	89.5	88.1	2.30	4.87
4	114.1	114.9	113.3	2.30	6.30

Chemical Composition

P (% max)	S (% max)
0.06	0.06

Wall Thickness Tolerance : Plus (+) not specified
Minus (-) 8% maximum

Pipe Length : 6 meters per joint
Length Tolerance : $\pm 2\%$

Mechanical Properties

Yield Strength (min)		Tensile Strength (min)		Elongation % (min)
kgf/mm ²	MPa (N/mm ²)	kgf/mm ²	MPa (N/mm ²)	

Marking Example :



**Bakrie Pipe
Industries**



PT. Bakrie Pipe Industries is a pioneer of steel pipe manufacturing with established network in line with Indonesia's development.

Supported by approximately 600 employees, mostly spearheading the technical department across the processing plant and in the field.

Experienced in production process for more than half a decade with a systematic delivery process from the start of production process with high efficiency and accuracy.

STEEL PIPE FOR WATER LINE

Commercial Office :

Bakrie Tower, 7th Floor
Rasuna Epicentrum
Jl. H.R. Rasuna Said
Jakarta Selatan 12940, Indonesia
Telephone : (62-21) 527 7035, 2994 1270

Steel Pipe Mill :

Jl. Raya Perjuangan, Medan Satria
Kota Bekasi 17131 - Indonesia
Telephone : (62-21) 887 1135
Facsimile : (62-21) 8897 6606, 8897 6705
Website : www.e-bakrie.com

Specification

Nominal Size		Outside Diameter		Wall Thickness	Weight
<i>inch</i>	<i>mm</i>	<i>mm (max)</i>	<i>mm (min)</i>	<i>mm</i>	<i>kg/m</i>
1/2	21.3	21.7	21.1	2.00	0.96
3/4	26.8	27.2	26.4	2.00	1.23
1	33.8	34.2	33.4	2.00	1.55
1 1/4	42.5	42.9	42.1	2.00	2.00
1 1/2	48.4	48.8	48.0	2.00	2.28
2	60.3	60.8	59.8	2.00	2.86
2 1/2	76.0	76.6	75.4	2.00	3.65
3	88.8	89.5	88.1	2.90	6.14
4	114.1	114.9	113.3	2.90	7.94
5	140.3	140.6	138.7	2.90	9.85
6	165.4	166.1	164.1	2.90	11.67
8	219.1	221.3	216.9	5.00	26.40
10	273.0	275.7	270.3	5.00	33.04
12	323.8	327.0	320.6	6.35	49.71
14	355.6	359.2	352.0	6.35	54.69
16	406.4	410.5	402.3	6.35	62.64

Chemical Composition

P % max	S % max
0.060	0.060

Wall Thickness Tolerance

: Plus (+) not specified
Minus (-) 10% maximum

Pipe Length

: 6 meters per joint

Length Tolerance

: ± 2%

Mechanical Properties (min)

Tensile Strength (min)		Yield Strength (min)		Elongation % (min)
kgf/mm ²	MPa (N/mm ²)	kgf/mm ²	MPa (N/mm ²)	
21.1	207	33.7	330	20

Hydrostatic Pressure Test :

50 kgf/cm² Hydrostatic testing can be replaced with Ultrasonic test or Eddy Current testing

Marking Example :