

PIRAMID GROUP

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ASTM A53

Steel pipe commonly used for mechanical and pressure applications as ordinary uses in steam, gas and air lines

Pipa baja yang umumnya digunakan untuk aplikasi mekanik dan bertekanan seperti untuk saluran uap, gas dan udara

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Nominal Size	Outside Diameter		Thickness		Weight Class	Schedule No	Weight		Pressure Test (Min)					
	inch	mm	inch	mm			lb/ft	kg/m	Grade A			Grade B		
inch	inch	mm	inch	mm			lb/ft	kg/m	psi	kgf/cm ²	bar	psi	kgf/cm ²	bar
1/2	0.840	21.3	0.109	2.77	STD	40	0.85	1.27	700	49	48	700	49	48
3/4	1.050	26.7	0.113	2.87	STD	40	1.13	1.69	700	49	48	700	49	48
1	1.315	33.4	0.133	3.38	STD	40	1.68	2.50	700	49	48	700	49	48
1 1/4	1.660	42.2	0.140	3.56	STD	40	2.27	3.39	1200	84	83	1300	91	90
1 1/2	1.900	48.3	0.145	3.68	STD	40	2.72	4.05	1200	84	83	1300	91	90
2	2.375	60.3	0.154	3.91	STD	40	3.66	5.44	2300	162	159	2500	176	172
2 1/2	2.875	73.0	0.203	5.16	STD	40	5.80	8.63	2500	176	172	2500	176	172
3	3.500	88.9	0.125	3.18	-	-	4.51	6.72	1290	91	89	1500	105	103
			0.156	3.96	-	-	5.58	8.29	1600	112	110	1870	131	129
			0.188	4.78	-	-	6.66	9.92	1930	136	133	2260	159	156
			0.216	5.49	STD	40	7.58	11.29	2220	156	153	2500	176	172
4	4.500	114.3	0.125	3.18	-	-	5.85	8.71	1000	70	69	1170	82	81
			0.156	3.96	-	-	7.24	10.78	1250	88	86	1460	103	101
			0.188	4.78	-	-	8.67	12.91	1500	105	103	1750	123	121
			0.219	5.56	-	-	10.02	14.91	1750	123	121	2040	143	141
			0.237	6.02	STD	40	10.80	16.07	1900	134	131	2210	155	152
			0.250	6.35	-	-	11.36	16.90	2000	141	138	2330	164	161
5	5.563	141.3	0.156	3.96	-	-	9.02	13.41	1010	71	70	1180	83	81
			0.188	4.78	-	-	10.80	16.09	1220	86	84	1420	100	98
			0.219	5.56	-	-	12.51	18.61	1420	100	98	1650	116	114
			0.258	6.55	STD	40	14.63	21.77	1670	117	115	1950	137	134
6	6.625	168.3	0.188	4.78	-	-	12.94	19.27	1020	72	70	1190	84	82
			0.219	5.56	-	-	15.00	22.31	1190	84	82	1390	98	96
			0.250	6.35	-	-	17.04	25.36	1360	96	94	1580	111	109
			0.280	7.11	STD	40	18.99	28.26	1520	107	105	1780	125	123
			0.312	7.92	-	-	21.06	31.32	1700	120	117	1980	139	137
			0.344	8.74	-	-	23.10	34.39	1870	131	129	2180	153	150
8	8.625	219.1	0.188	4.78	-	-	16.96	25.26	780	55	54	920	65	63
			0.203	5.16	-	-	18.28	27.22	850	60	59	1000	70	69
			0.219	5.56	-	-	19.68	29.28	910	64	63	1070	75	74
			0.250	6.35	-	20	22.38	33.31	1040	73	72	1220	86	84
			0.277	7.04	-	30	24.72	36.31	1160	82	80	1350	95	93
			0.312	7.92	-	-	27.73	41.24	1300	91	90	1520	107	105
			0.322	8.18	STD	40	28.58	42.55	1340	94	92	1570	110	108
			0.344	8.74	-	-	30.45	45.34	1440	101	99	1680	118	116
			0.375	9.52	-	-	33.07	49.20	1570	110	108	1830	129	126
			0.406	10.31	-	60	35.67	53.08	1700	120	117	2000	141	138
10	10.750	273.0	0.188	4.78	-	-	21.23	31.62	630	44	43	730	51	50
			0.203	5.16	-	-	22.89	34.08	680	48	47	800	56	55
			0.219	5.56	-	-	24.65	36.67	730	51	50	860	60	59
			0.250	6.35	-	20	28.06	41.75	840	59	58	980	69	68
			0.279	7.09	-	-	31.23	46.49	930	65	64	1090	77	75
			0.307	7.80	-	30	34.27	51.01	1030	72	71	1200	84	83
			0.344	8.74	-	-	38.27	56.96	1150	81	79	1340	94	92
			0.365	9.27	STD	40	40.52	60.29	1220	86	84	1430	101	99
			0.438	11.13	-	-	48.28	71.87	1470	103	101	1710	120	118
			0.500	12.70	XS	60	54.79	81.52	1670	117	115	1950	137	134



Bakrie Pipe Industries

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Nominal Size	Outside Diameter		Thickness		Weight Class	Schedule No	Weight		Pressure Test (Min)								
	inch	mm	inch	mm			lb/ft	kg/m	Grade A			Grade B					
	inch	mm	inch	mm					psi	kgf/cm ²	bar	psi	kgf/cm ²	bar			
12	12.750	323.8	0.203	5.16	-	-	27.23	40.55	570	40	39	670	47	46			
			0.219	5.56	-	-	29.34	43.63	620	44	43	720	51	50			
			0.250	6.35	-	20	33.41	49.71	710	50	49	820	58	57			
			0.281	7.14	-	-	37.46	55.75	790	56	54	930	65	64			
			0.312	7.92	-	-	41.48	61.69	880	62	61	1030	72	71			
			0.330	8.38	-	30	43.81	65.18	930	65	64	1090	77	75			
			0.344	8.74	-	-	45.62	67.90	970	68	67	1130	79	78			
			0.375	9.52	STD	-	49.61	73.78	1060	75	73	1240	87	85			
			0.406	10.31	-	40	53.57	79.70	1150	81	79	1340	94	92			
			0.438	11.13	-	-	57.65	85.82	1240	87	85	1440	101	99			
			0.500	12.70	XS	-	65.48	97.43	1410	99	97	1650	116	114			
			0.562	14.27	-	60	73.22	108.92	1590	112	110	1850	130	128			
			0.625	15.88	-	-	81.01	120.59	1880	132	130	2190	154	151			
			14	14.000	355.6	0.210	5.33	-	-	30.96	46.04	540	38	37	630	44	43
0.219	5.56	-				-	32.26	47.99	560	39	39	660	46	45			
0.250	6.35	-				10	36.75	54.69	640	45	44	750	53	52			
0.281	7.14	-				-	41.21	61.35	720	51	50	840	59	58			
0.312	7.92	-				20	45.65	67.90	800	56	55	940	66	65			
0.344	8.74	-				-	50.22	74.76	880	62	61	1030	72	71			
0.375	9.52	STD				30	54.62	81.25	960	67	66	1120	79	77			
0.406	10.31	-				-	58.82	87.79	1040	73	72	1220	86	84			
0.438	11.13	-				40	63.50	94.55	1130	79	78	1310	92	90			
0.469	11.91	-				-	67.84	100.94	1210	85	83	1410	99	97			
0.500	12.70	XS				-	72.16	107.39	1290	91	89	1500	105	103			
0.562	14.27	-				-	80.73	120.12	1450	102	100	1690	119	117			
0.594	15.09	-				60	85.13	126.71	1530	108	105	1790	126	123			
0.625	15.88	-				-	89.36	133.04	1610	113	111	1880	132	130			
16	16.000	406.4	0.219	5.56	-	-	36.95	54.96	490	34	34	570	40	39			
			0.250	6.35	-	10	42.09	62.64	560	39	39	660	46	45			
			0.281	7.14	-	-	47.22	70.30	630	44	43	740	52	51			
			0.312	7.92	-	20	52.32	77.83	700	49	48	820	58	57			
			0.344	8.74	-	-	57.57	85.71	770	54	53	900	63	62			
			0.375	9.52	STD	30	62.64	93.17	840	59	58	980	69	68			
			0.406	10.31	-	-	67.48	100.71	910	64	63	1070	75	74			
			0.438	11.13	-	-	72.86	108.49	990	70	68	1150	81	79			
			0.469	11.91	-	-	77.87	115.86	1060	75	73	1230	86	85			
			0.500	12.70	XS	40	82.85	123.30	1120	79	77	1310	92	90			
			0.562	14.27	-	-	92.75	138.00	1270	89	88	1480	104	102			
			0.625	15.88	-	-	102.72	152.94	1410	99	97	1640	115	113			
			18	18.000	457.2	0.250	6.35	-	10	47.44	70.60	500	35	34	580	41	40
						0.281	7.14	-	-	53.23	79.24	560	39	39	660	46	45
0.312	7.92	-				20	58.99	87.75	620	44	43	730	51	50			
0.344	8.74	-				-	64.93	96.66	690	49	48	800	56	55			
0.375	9.52	STD				-	70.65	105.10	750	53	52	880	62	61			
0.406	10.31	-				-	76.36	113.58	810	57	56	950	67	66			
0.438	11.13	-				-	82.23	122.43	880	62	61	1020	72	70			
0.469	11.91	-				-	87.89	130.78	940	66	65	1090	77	75			
0.500	12.70	XS				30	93.54	139.20	1000	70	69	1170	82	81			
0.562	14.27	-				40	104.76	155.87	1120	79	77	1310	92	90			
0.625	15.88	-				-	116.09	172.75	1250	88	86	1460	103	101			
20	20.000	508.0				0.250	6.35	-	10	52.78	78.55	450	32	31	520	37	36
						0.281	7.14	-	-	59.23	88.19	510	36	35	590	41	41
						0.312	7.92	-	-	65.66	97.67	560	39	39	660	46	45
			0.344	8.74	-	-	72.28	107.60	620	44	43	720	51	50			
			0.375	9.52	STD	20	78.67	117.02	680	48	47	790	56	54			
			0.406	10.31	-	-	84.04	126.53	730	51	50	850	60	59			
			0.438	11.13	-	-	91.59	136.37	790	56	54	920	65	63			
			0.469	11.91	-	-	97.92	145.70	850	60	59	990	67	66			
			0.500	12.70	XS	30	104.23	155.12	900	63	62	1050	74	72			
			0.562	14.27	-	-	116.78	173.75	1010	71	70	1180	83	81			
			0.594	15.09	-	40	123.23	183.42	1170	82	81	1250	88	86			
			0.625	15.88	-	-	129.45	192.73	1130	79	78	1310	92	90			

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Nominal Size	Outside Diameter		Thickness		Weight Class	Schedule No	Weight		Pressure Test (Min)					
	inch	mm	inch	mm			lb/ft	kg/m	Grade A			Grade B		
24	24.000	610.0	0.250	6.35	-	10	63.47	94.46	380	27	26	440	31	30
			0.281	7.14	-	-	71.25	106.08	420	30	29	490	34	34
			0.312	7.92	-	-	79.01	117.51	470	33	32	550	39	38
			0.344	8.74	-	-	86.99	129.50	520	37	36	600	42	41
			0.375	9.52	STD	20	94.71	140.88	560	39	39	660	46	46
			0.406	10.31	-	-	102.40	152.37	610	43	42	710	50	49
			0.438	11.13	-	-	110.32	164.26	660	46	46	770	54	53
			0.469	11.91	-	-	117.98	175.54	700	49	48	820	58	57
			0.500	12.70	XS	-	125.61	186.94	750	53	52	880	62	61
			0.562	14.27	-	30	140.81	209.50	840	59	58	980	69	68
			0.625	15.88	-	-	156.17	232.67	940	66	65	1090	77	75

Chemical Composition (% max.):

ASTM A-53	Carbon	Manganese	Phosphorus	Sulfur	Copper	Nickel	Chromium	Molybdenum	Vanadium	Cu+Ni+Cr+Mo+V
Grade A	0.25	0.95	0.05	0.045	0.40	0.40	0.40	0.15	0.08	1.00
Grade B	0.30	1.20	0.05	0.045	0.40	0.40	0.40	0.15	0.08	1.00

Mechanical Properties :

	Yield Strength (min.)	Tensile Strength (min.)
Grade A	30,000 psi (205 MPa)	48,000 psi (330 MPa)
Grade B	35,000 psi (240 MPa)	60,000 psi (415 MPa)

Galvanized :


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

Marking Example for OD < 4 inch:

With Schedule Number (SCH.40) and Weight Class (STD)


 ASTM A53-A E 2" STD SCH.40 x 6,00 m *Bakrie Pipe Industries*

Without Schedule Number (replaced by specified wall thickness in unit mm) and without Weight Class


 ASTM A53-A E 3" x 3,18 mm x 6,00 m *Bakrie Pipe Industries*

Marking Example for OD 4 - 24 inch:


With Schedule Number (SCH.30) and Weight Class (STD)

 ASTM A53-A E 14" STD SCH.30 x 6,00 m *Bakrie Pipe Industries*
PIPE NO: HEAT NO:


With Schedule Number (SCH.40) and without Weight Class

 ASTM A53-A E 14" SCH.40 x 6,00 m *Bakrie Pipe Industries*
PIPE NO: HEAT NO:

Without Schedule Number (replaced by specified wall thickness in unit mm) and without Weight Class

 ASTM A53-A E 14" x 5,33 mm x 6,00 m *Bakrie Pipe Industries*
PIPE NO: HEAT NO:

With Weight Class (XS) and without Schedule Number (replaced by specified wall thickness in unit mm)

 ASTM A53-A E 14" XS 12,70 mm x 6,00 m *Bakrie Pipe Industries*
PIPE NO: HEAT NO: