

**Section Properties & Strengths per AISC 360 - Schedule 40, 80 & 120 Pipes**

Post Size	Weight, D <sub>p</sub>	O.D.	t	t <sub>des</sub>	E	A	I	S	r	Z	F <sub>y</sub>	M <sub>a</sub>	F <sub>y</sub>	M <sub>a</sub>
	lbs / ft	in	in	in	msi	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>3</sup>	ksi	kip-ft	ksi	kip-ft
<b>Schedule 40 / ASTM F1043 / F1083 / Group 1A</b>														
1-5/8"	2.3	1.660	0.140	0.130	29.0	0.626	0.184	0.222	0.543	0.305	30	0.46	50	0.76
1-7/8"	2.7	1.900	0.145	0.135	29.0	0.748	0.293	0.308	0.626	0.421	30	0.63	50	1.05
2-3/8"	3.7	2.375	0.154	0.143	29.0	1.004	0.628	0.529	0.791	0.714	30	1.07	50	1.78
2-7/8"	5.8	2.875	0.203	0.189	29.0	1.593	1.444	1.005	0.952	1.364	30	2.04	50	3.40
3-1/2"	7.6	3.500	0.216	0.201	29.0	2.082	2.843	1.625	1.169	2.189	30	3.28	50	5.46
4"	9.1	4.000	0.226	0.210	29.0	2.502	4.507	2.253	1.342	3.022	30	4.52	50	7.54
4-1/2"	10.8	4.500	0.237	0.220	29.0	2.963	6.802	3.023	1.515	4.040	30	6.05	50	10.08
5-9/16"	14.6	5.560	0.258	0.240	29.0	4.010	14.217	5.114	1.883	6.796	30	10.17	50	16.96
6-5/8"	19.0	6.625	0.280	0.260	29.0	5.207	26.408	7.972	2.252	10.554	30	15.80	50	26.33
8-5/8"	28.6	8.625	0.322	0.299	29.0	7.833	67.951	15.757	2.945	20.766	30	31.09	50	51.81
<b>Schedule 80 / ASTM F1083</b>														
1-5/8"	3.0	1.660	0.191	0.178	29.0	0.827	0.230	0.278	0.528	0.392	30	0.59	50	0.98
1-7/8"	3.6	1.900	0.200	0.186	29.0	1.002	0.372	0.392	0.610	0.549	30	0.82	50	1.37
2-3/8"	5.0	2.375	0.218	0.203	29.0	1.384	0.823	0.693	0.771	0.959	30	1.44	50	2.39
2-7/8"	7.7	2.875	0.276	0.257	29.0	2.111	1.827	1.271	0.930	1.765	30	2.64	50	4.40
3-1/2"	10.3	3.500	0.300	0.279	29.0	2.823	3.689	2.108	1.143	2.902	30	4.34	50	7.24
4"	12.5	4.000	0.318	0.296	29.0	3.442	5.941	2.970	1.314	4.067	30	6.09	50	10.15
4-1/2"	15.0	4.500	0.337	0.313	29.0	4.122	9.082	4.036	1.484	5.504	30	8.24	50	13.73
5-9/16"	20.8	5.560	0.375	0.349	29.0	5.710	19.469	7.003	1.847	9.485	30	14.20	50	23.67
6-5/8"	28.6	6.625	0.432	0.402	29.0	7.855	38.184	11.527	2.205	15.58	30	23.33	50	38.88
8-5/8"	43.4	8.625	0.500	0.465	29.0	11.920	99.539	23.081	2.890	31.00	30	46.40	50.0	77.33
<b>Schedule 120</b>														
2-3/8"	9.04	2.375	0.436	0.405	29.0	2.509	1.268	1.068	0.711	1.595	50	3.98	50	3.98
2-7/8"	13.7	2.875	0.552	0.513	29.0	3.809	2.781	1.934	0.854	2.908	50	7.26	50	7.26
6-5/8"	53.2	6.625	0.864	0.804	29.0	14.695	63.438	19.151	2.078	27.404	50	68.37	50	68.37
8-5/8"	72.5	8.625	0.875	0.814	29.0	19.969	153.957	35.700	2.777	49.831	50	124.33	50	124.33
Post Size	lbs / ft	in	in	in	msi	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>3</sup>	ksi	kip-ft	ksi	kip-ft
	Weight, D <sub>p</sub>	O.D.	t	t <sub>des</sub>	E	A	I	S	r	Z	F <sub>y</sub>	M <sub>a</sub>	F <sub>y</sub>	M <sub>a</sub>