

Y670
Structural Steel Pipe Columns
Firesolve® SB

Standard Weight Pipe Columns

Nominal Dia.	Wall Thk	A/P	Metric Desig.	M/D	Hp/A	1-Hour	1-1/2 Hour	2-Hour
4	0.237	0.22	102 x 6.0	41.8	189.1	0.133	0.224	0.314
5	0.258	0.25	141 x 6.6	47.5	166.4	0.133	0.224	0.314
6	0.28	0.27	168 x 7.1	51.3	154.1	0.116	0.203	0.290
8	0.322	0.31	219 x 8.2	58.9	134.2	0.116	0.203	0.290
10	0.365	0.35	273 x 9.3	66.5	118.9	0.094	0.178	0.261
12	0.375	0.36	324 x 9.5	68.4	115.6	0.094	0.178	0.261

Extra Strong Pipe Columns

Nominal Dia.	Wall Thk	A/P	Metric Desig.	M/D	Hp/A	1-Hour	1-1/2 Hour	2-Hour
4	0.337	0.31	102 x 8.6	58.9	134.2	0.116	0.203	0.290
5	0.375	0.35	141 x 9.5	66.5	118.9	0.094	0.178	0.261
6	0.432	0.40	168 x 11	76.0	104.0	0.075	0.156	0.237
8	0.5	0.47	219 x 12.7	89.3	88.5	0.054	0.131	0.209
10	0.5	0.48	273 x 12.7	91.2	86.7	0.054	0.131	0.209
12	0.5	0.48	324 x 12.7	91.2	86.7	0.054	0.131	0.209

Double Extra Strong Pipe Columns

Nominal Dia.	Wall Thk	A/P	Metric Desig.	M/D	Hp/A	1-Hour	1-1/2 Hour	2-Hour
4	0.674	0.57	102 x 17.1	108.3	73.0	0.054	0.131	0.209
5	0.75	0.65	141 x 19.1	123.5	64.0	0.054	0.131	0.209
6	0.864	0.75	168 x 21.9	142.5	55.5	0.054	0.131	0.209
8	0.875	0.79	219 x 22.2	150.1	52.7	0.054	0.131	0.209

Note: A/P, M/D & Hp/A Ratios based on design formula. All thicknesses are expressed in inches.
To convert to Mils, multiply by 1000. To convert to mm, multiply by 25.4