

**ASTA DOOR CORPORATION**  
**WINDLOAD REFERENCE CHART BY MODEL**  
**(PSF=Pounds Per Square Foot)**

OPENING WIDTH	Model 203 Commercial Sheet Door (26 Gauge)	Model 204 Commercial Sheet Door (26 Gauge)	Model 233 Commercial Sheet Door (26 Gauge)	Model 234 Commercial Sheet Door (26 Gauge)	Model 324 Commercial Slat Door (24 Gauge)	Model 322 Commercial Slat Door (22 Gauge)	Model 320 Commercial Slat Door (20 Gauge)	Model 424 Rolling Steel Door (24 Gauge)	Model 422 Rolling Steel Door (22 Gauge)	Model 420 Rolling Steel Door (20 Gauge)	Model 418 Rolling Steel Door (18 Gauge)
↓	OPENING HEIGHT →										
Up To	18' Max	18' Max	18' Max	18' Max	(Flat Slat) 16' Max	(Flat Slat) 14' Max	(Flat Slat) 14' Max	(Flat Slat) 16' Max	(Flat Slat) 21' Max	(Flat Slat) 21' Max	(Flat Slat) 21' Max
8'	+/-113.1	+/-113.1	+/-95.9	+/-95.9	+118.1/-111.1	+128.5/-121.5	+138.3/-131.3	+/-105.3	+/-112.5	+/-119.3	+/-127.6
9'	+/-91.4	+/-91.4	+/-95.9	+/-95.9	+118.1/-111.1	+128.5/-121.5	+138.3/-131.3	+/-105.3	+/-112.5	+/-119.3	+/-127.6
10'	+/-76.0	+/-76.0	+/-80.1	+/-80.1	+95.3/-89.3	+102.5/-96.5	+109.3/-103.3	+/-105.3	+/-112.5	+/-119.3	+/-127.6
11'	+/-64.6	+/-64.6	+/-68.4	+/-68.4	+79.0/-73.8	+84.2/-79.0	+89.1/-83.3	+/-87.7	+/-92.9	+/-97.8	+/-103.7
12'	+/-55.8	+/-55.8	+/-59.3	+/-59.3	+67.0/-62.4	+70.8/-66.2	+74.4/-69.8	+/-74.6	+/-78.5	+/-82.0	+/-86.4
13'	+/-48.9	+/-48.9	+/-52.1	+/-52.1	+57.8/-53.7	+60.7/-56.6		+/-64.6	+/-67.5	+/-70.2	+/-73.5
14'	+/-43.3	+/-43.3	+/-46.3	+/-46.3	+50.5/-46.9	+52.8/-49.1		+/-56.6	+/-58.9	+/-60.9	+/-63.5
15'	+/-38.8	+/-38.8	+/-41.5	+/-41.5	+44.7/-41.4			+/-50.2	+/-52.0	+/-53.6	+/-55.6
16'	+/-35.0	+/-35.0	+/-37.5	+/-37.5	+40.0/-37.0			+/-45.0	+/-46.4	+/-47.7	+/-49.3
17'	+/-31.8	+/-31.8	+/-34.1	+/-34.1	+36.1/-33.3			+/-40.7	+/-41.8	+/-42.8	+/-44.1
18'	+/-29.1	+/-29.1	+/-31.2	+/-31.2	+32.7/-30.2			+/-36.9	+/-37.9	+/-38.7	+/-39.8
19'	+/-26.7	+/-26.7	+/-28.7	+/-28.7	+29.9/-27.6			+/-33.8	+/-34.6	+/-35.3	+/-36.1
20'	+/-24.6	+/-24.6	+/-26.5	+/-26.5	+27.5/-25.3			+/-31.1	+/-31.7	+/-32.3	+/-33.0
21'									+/-29.2	+/-29.7	+/-30.3
22'									+/-27.1	+/-27.5	+/-28.0
23'									+/-25.2	+/-25.5	+/-26.0
24'									+/-23.5	+/-23.8	+/-24.2

OPENING WIDTH	Model 622 Rolling Steel Door (22 Gauge)	Model 620 Rolling Steel Door (20 Gauge)	Model 618 Rolling Steel Door (18 Gauge)	Model 424 Rolling Steel Door (24 Gauge)	Model 422 Rolling Steel Door (22 Gauge)	Model 420 Rolling Steel Door (20 Gauge)	Model 418 Rolling Steel Door (18 Gauge)
↓	OPENING HEIGHT →						
Up To	24' Max	24' Max	24' Max	(Curved Slat) 16' Max	(Curved Slat) 21' Max	(Curved Slat) 21' Max	(Curved Slat) 21' Max
8'	+/-178.9	+/-187.7	+/-198.8	+/-110.8	+/-118.2	+/-124.5	+/-132.2
9'	+/-141.1	+/-147.0	+/-154.3	+/-87.4	+/-92.3	+/-96.5	+/-101.6
10'	+/-115.1	+/-119.2	+/-124.3	+/-71.3	+/-74.6	+/-77.6	+/-81.2
11'	+/-96.3	+/-99.2	+/-102.9	+/-59.7	+/-62.0	+/-64.2	+/-66.7
12'	+/-82.2	+/-84.4	+/-87.1	+/-50.9	+/-52.7	+/-54.3	+/-56.2
13'	+/-71.4	+/-73.0	+/-75.0	+/-44.2	+/-45.5	+/-46.7	+/-48.1
14'	+/-62.7	+/-64.0	+/-65.6	+/-38.9	+/-39.8	+/-40.8	+/-41.9
15'	+/-55.7	+/-56.7	+/-58.0	+/-34.5	+/-35.3	+/-36.0	+/-36.9
16'	+/-50.0	+/-50.8	+/-51.8	+/-31.0	+/-31.6	+/-32.2	+/-32.9
17'	+/-45.2	+/-45.9	+/-46.7	+/-28.0	+/-28.5	+/-29.0	+/-29.6
18'	+/-41.2	+/-41.7	+/-42.4	+/-25.5	+/-25.9	+/-26.3	+/-26.8
19'	+/-37.7	+/-38.1	+/-38.7	+/-23.3	+/-23.6	+/-24.0	+/-24.4
20'	+/-34.7	+/-35.0	+/-35.5	+/-21.5	+/-21.7	+/-22.0	+/-22.4
21'	+/-32.1	+/-32.4	+/-32.8		+/-20.1	+/-20.3	+/-20.6
22'	+/-29.8	+/-30.0	+/-30.4		+/-18.6	+/-18.8	+/-19.1
23'	+/-27.7	+/-28.0	+/-28.2		+/-17.3	+/-17.5	+/-17.7
24'	+/-25.9	+/-26.1	+/-26.4		+/-16.2	+/-16.3	+/-16.5

	<u>Design Pressure</u> <u>Exposure B</u>	<u>Design Pressure</u> <u>Exposure C</u>	<u>Design Pressure</u> <u>Exposure D</u>
<b>Wind speed</b>			
<b>90 mph</b>	+10.8 / -12.0	+14.5 / -16.1	+17.3 / -19.2
<b>100 mph</b>	+13.3 / -14.8	+17.9 / -19.9	+21.3 / -23.7
<b>110 mph</b>	+16.1 / -17.9	+21.6 / -24.1	+25.8 / -28.7
<b>120 mph</b>	+19.2 / -21.4	+25.8 / -28.7	+30.7 / -34.2
<b>130 mph</b>	+22.5 / -25.1	+30.2 / -33.7	+36.0 / -40.1
<b>140 mph</b>	+26.1 / -29.1	+35.1 / -39.0	+41.8 / -46.5
<b>150 mph</b>	+30.0 / -33.4	+40.3 / -44.8	+48.0 / -53.4

\*Windspeed / Design Pressure Conversions Based on;

- 14'0" x 14'0" door size
- Door Located 2' From Building End Zone
- 25' Mean Roof Height & >10 Degree Roof Slope
- Smaller Doors Will Have Higher Design PSF Requirements
- Larger Doors Will Have Lower Design PSF Requirements
- Assume Exposure B Unless Otherwise Specified