

ASTA DOOR CORPORATION - INTERNAL USE ONLY

203/204 SERIES WINDLOAD REFERENCE CHART

(MOUNTING TO STEEL, MASONRY, & WOOD)

WINDLOAD RATED DOORS, +/- PSF

NON-IMPACT					IMPACT				
Approval	FL #21450 / GDR-41				Approval	FL #21450 / GDR-41			
Model	203 / 204				Model	203IM / 204IM			
Jamb	14GA Steel		12 GA Steel, Masonry, Wood		Jamb	14GA Steel		12 GA Steel, Masonry, Wood	
Psf	(+)	(-)	(+)	(-)	Psf	(+)	(-)	(+)	(-)
Width	20' Max Height				Width	20' Max Height			
8'	42.5	48.2	58.5	66.3	8'	40.0	40.0	42.5	45.0
9'	38.0	43.1	52.3	59.3	9'	40.0	40.0	42.5	45.0
10'	34.3	38.9	47.2	53.6	10'	40.0	40.0	42.5	45.0
11'	31.3	35.5	43.1	48.9	11'	40.0	40.0	42.5	45.0
12'	28.7	32.6	39.6	44.9	12'	40.0	40.0	42.5	45.0
13'	26.6	30.2	36.7	41.6	13'	40.0	40.0	42.5	45.0
14'	24.7	28.1	34.1	38.7	14'	40.0	40.0	42.5	45.0
15'	23.2	26.3	31.9	36.2	15'			42.5	45.0
16'	21.7	24.7	30.0	34.0	16'			42.5	45.0
17'	20.4	23.2	27.1	30.8					
18'	19.4	22.0	24.6	27.9					
19'	18.3	20.8	22.6	25.7					
20'	17.4	19.8	20.9	23.7					

ASCE 7-16 Calculator Wind Speed	Design Pressure Exposure B		Design Pressure Exposure C		Design Pressure Exposure D	
	(+)	(-)	(+)	(-)	(+)	(-)
90 mph	6.8	7.9	9.7	11.3	11.6	13.4
100 mph	8.4	9.8	12.0	13.9	14.3	16.6
110 mph	10.2	11.8	14.5	16.8	17.3	20.1
120 mph	12.1	14.1	17.3	20.0	20.6	23.9
130 mph	14.2	16.5	20.3	23.5	24.2	28
140 mph	16.5	19.1	23.5	27.3	28.0	32.5
150 mph	19	22	27.0	31.3	32.2	37.3
160 mph	21.6	25	30.7	35.6	36.6	42.4
170 mph	24.3	28.2	34.7	40.2	41.3	47.9
180 mph	27.3	31.6	38.9	45.1	46.3	53.7
190 mph	30.4	35.3	43.3	50.2	51.6	59.8
200 mph	33.7	39.1	48.0	55.6	57.2	66.3
210 mph	37.2	43.1	52.9	61.3	63.0	73.1
220 mph	40.8	47.3	58.1	67.3	69.2	80.2

Windspeed/Design Pressure Conversion Based on ASCE 7-16 and on the Following

- : 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
- : Enclosure Classification - Enclosed
- : Building Length of 200'
- : Building Width of 100'

NOTES:

- : Model 204 is the insulated version of Model 203.
- : CMU jambs referenced are with concrete filled CMU cells. (Poured Concrete Masonry Unit).
- : All Model 203 doors for FL Approval will incorporate our new "J" Design bottom bar as standard.

ASTA DOOR CORPORATION
300 SERIES WINDLOAD REFERENCE CHART
(MOUNTING TO STEEL AND CONCRETE ONLY)
WINDLOAD RATED DOORS (+/- PSF)

Approval	FL #8888		
Model	324	322	320
Jamb	10 GA Steel & Concrete		
	TYPE 5 CERTIFIED GUIDES		
Psf	(+/-)	(+/-)	(+/-)
Width	21' Max Height		
8'	118/111	128/121	138/131
9'	118/111	128/121	138/131
10'	95 / 89	102 / 96	109/103
11'	79 / 73	84 / 79	89 / 83
12'	67 / 62	70 / 66	74 / 69
13'	57 / 53	60 / 56	63 / 59
14'	50 / 46	52 / 49	54 / 51
15'	44 / 41	46 / 43	48 / 44
16'	40 / 37	41 / 38	42 / 39
17'	36 / 33	37 / 34	38 / 35
18'	32 / 30	33 / 31	34 / 32
19'	29 / 27	30 / 28	31 / 29
20'	27 / 25	28 / 26	28 / 26

NOTES:
: All 300 Series certified are Flat Slat Only.

ASCE 7-16 Calculator <u>Wind Speed</u>	Design Pressure <u>Exposure B</u>		Design Pressure <u>Exposure C</u>		Design Pressure <u>Exposure D</u>	
	(+)	(-)	(+)	(-)	(+)	(-)
90 mph	6.8	7.9	9.7	11.3	11.6	13.4
100 mph	8.4	9.8	12.0	13.9	14.3	16.6
110 mph	10.2	11.8	14.5	16.8	17.3	20.1
120 mph	12.1	14.1	17.3	20.0	20.6	23.9
130 mph	14.2	16.5	20.3	23.5	24.2	28
140 mph	16.5	19.1	23.5	27.3	28.0	32.5
150 mph	19	22	27.0	31.3	32.2	37.3
160 mph	21.6	25	30.7	35.6	36.6	42.4
170 mph	24.3	28.2	34.7	40.2	41.3	47.9
180 mph	27.3	31.6	38.9	45.1	46.3	53.7
190 mph	30.4	35.3	43.3	50.2	51.6	59.8
200 mph	33.7	39.1	48.0	55.6	57.2	66.3
210 mph	37.2	43.1	52.9	61.3	63.0	73.1
220 mph	40.8	47.3	58.1	67.3	69.2	80.2

Windspeed/Design Pressure Conversion Based on ASCE 7-16 and on the Following

- : 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
- : Enclosure Classification - Enclosed
- : Building Length of 200'
- : Building Width of 100'

ASTA DOOR CORPORATION
400 & 600 SERIES WINDLOAD REFERENCE CHART
(MOUNTING TO STEEL, CONCRETE AND POURED CMU ONLY)
WINDLOAD RATED DOORS (+/- PSF)

Approval Series	FL #17817 / GDR-142		FL #8888				FL #17817 / GDR-141		
	400 / 600		424C	422C	420C		400IM / 600IM		
Jamb	3/16" Steel, Concrete, & Filled CMU		10 GA Steel and Concrete				3/16" Steel, Concrete, & Filled CMU		
Psf	(+)	(-)	(+/-)	(+/-)	(+/-)		(+/-)	(+/-)	(+/-)
Width	30' Max Height		21' Max Height				30' Max Height - Impact Rated		
8'	97.7	106.6	110.8	118.2	124.5		55.0	60.0	
9'	97.7	106.6	87.4	92.3	96.5		55.0	60.0	
10'	88.0	96.0	71.3	74.6	77.6		55.0	60.0	
11'	80	87.3	59.7	62.0	64.2		55.0	60.0	
12'	73.3	80	50.9	52.7	54.3		55.0	60.0	
13'	67.6	73.8	44.2	45.5	46.7		55.0	60.0	
14'	62.8	68.6	38.9	39.8	40.8		55.0	60.0	
15'	58.6	64	34.5	35.3	36.0		55.0	60.0	
16'	55.0	60.0	31	31.6	32.2		55.0	60.0	
17'	49.0	53.5	28.0	28.5	29.0		28.8	31.5	
18'	45	49.1	25.5	25.9	26.3		28.8	31.5	
19'	41.2	45	23.3	23.6	24.0		28.8	31.5	
20'	37.7	41.2	21.5	21.7	22		28.8	31.5	
21'	35	38.2	19.8	20.1	20.3		28.8	31.5	
22'	32	35	18.4	18.6	18.8		28.8	31.5	
23'	30.2	33	17.2	17.3	17.5		28.8	31.5	
24'	28.8	31.5	16	16.2	16.3		28.8	31.5	
25'	27	29.6							
26'	25.4	27.8							
27'	24	26.3							
28'	22.7	24.8							
29'	21.5	23.5							
30'	20.4	22.3							
31'	19.4	21.2							
32'	18.4	20.2							

ASCE 7-16 Calculator Wind Speed	Design Pressure Exposure B		Design Pressure Exposure C		Design Pressure Exposure D	
	(+)	(-)	(+)	(-)	(+)	(-)
90 mph	6.8	7.9	9.7	11.3	11.6	13.4
100 mph	8.4	9.8	12.0	13.9	14.3	16.6
110 mph	10.2	11.8	14.5	16.8	17.3	20.1
120 mph	12.1	14.1	17.3	20.0	20.6	23.9
130 mph	14.2	16.5	20.3	23.5	24.2	28
140 mph	16.5	19.1	23.5	27.3	28.0	32.5
150 mph	19	22	27.0	31.3	32.2	37.3
160 mph	21.6	25	30.7	35.6	36.6	42.4
170 mph	24.3	28.2	34.7	40.2	41.3	47.9
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Notes:
:CMU jambs referenced are with concrete filled CMU Cells. (Poured CMU)
:Models 424C, 422C, & 420C are Curved Slat.

ASTA DOOR CORPORATION
400 & 600 SERIES WINDLOAD REFERENCE CHART
(MOUNTING TO STEEL, CONCRETE AND POURED CMU ONLY)
WINDLOAD RATED DOORS (+/- PSF)

Approval FL #17817			Approval Miami Dade NOA 24-0507.07		
Series	400HD / 600HD		Series	400MD / 600MD	
Jamb	3/16" Steel, Concrete, & Filled CMU		Jamb	3/16" Steel, Concrete, & Filled CMU	
Psf	(+)	(-)	Psf	(+)	(-)
Width	30' Max Height		Width	30' Max Height - Impact Rated	
8'	100.0	100.0	8'	60.0	65.0
9'	100.0	100.0	9'	60.0	65.0
10'	100.0	100.0	10'	60.0	65.0
11'	100.0	100.0	11'	60.0	65.0
12'	100.0	100.0	12'	60.0	65.0
13'	92.3	100.0	13'	60.0	65.0
14'	85.7	92.9	14'	60.0	65.0
15'	80.0	86.7	15'	60.0	65.0
16'	75.0	81.3	16'	60.0	65.0
17'	70.6	76.5	17'	60.0	65.0
18'	66.6	72.2	18'	60.0	65.0
19'	63.1	68.4	19'	60.0	65.0
20'	60.0	65.0	20'	60.0	65.0
21'	55.4	60.1			
22'	51.5	55.8			
23'	48.0	52.0			
24'	44.9	48.7			
25'	42.1	45.7			
26'	39.6	42.9			
27'	39.3	40.5			
28'	35.3	38.3			

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