

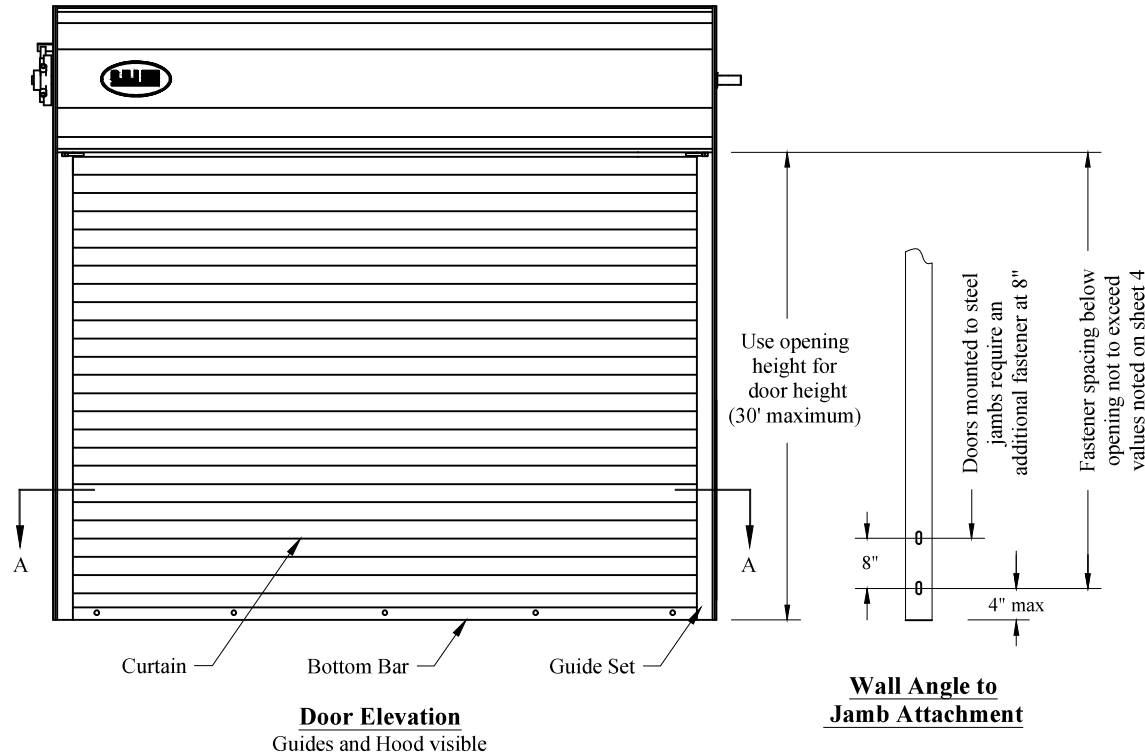
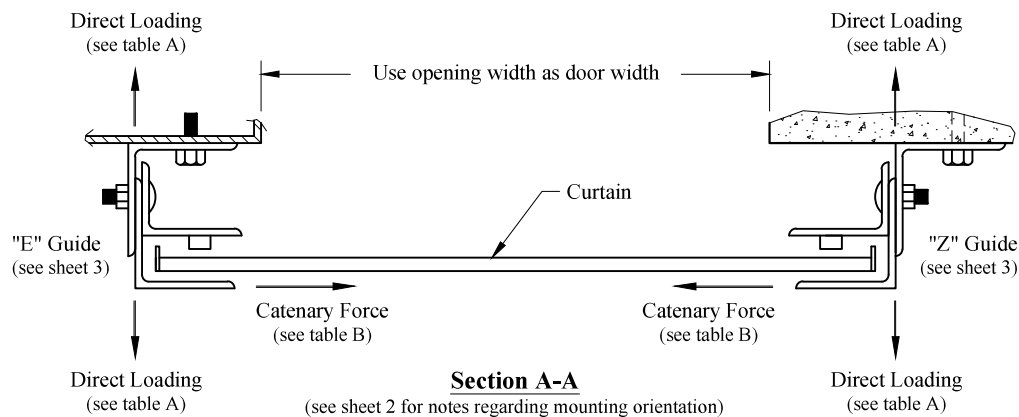


Table A: Direct Loading
(pounds per foot of door height per jamb)
Direct loading forces occur in both (+) and (-) directions.
Lower PSF exposures will generate lower values.

door width	max psf (+/-)	direct loading
12'-04"	74	475
13'-04"	68	470
14'-04"	63	470
15'-04"	59	470
16'-04"	56	475
17'-04"	50	450
18'-04"	46	435
19'-04"	42	420
20'-04"	38	400

Table B: Catenary Forces
(pounds per foot of door height per jamb)
Catenary forces are always in the directions shown.
Lower PSF exposures will generate lower values.

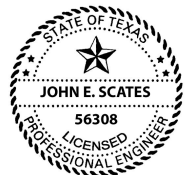
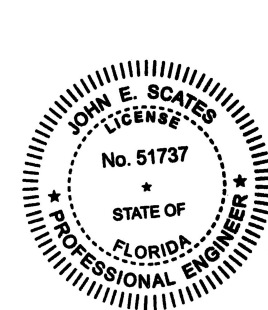
door width	max psf (+/-)	catenary force
12'-04"	74	1700
13'-04"	68	1800
14'-04"	63	2000
15'-04"	59	2100
16'-04"	56	2200
17'-04"	50	2200
18'-04"	46	2200
19'-04"	42	2200
20'-04"	38	2200



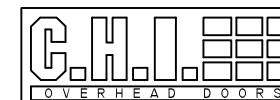
Digitally signed by John E Scates
Date: 2026.08.17 19:27:44 -05'00'

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windload construction details

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DATE 12-17-2021

Sheet 1 of 4

Rolling Steel Doors
Models: 6181, 6201, 6221 & 6266

Evaluated Widths
12'-04" through 20'-04"

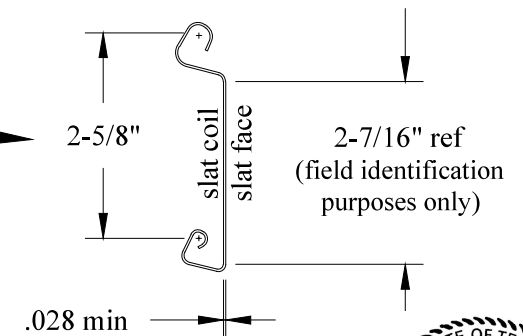
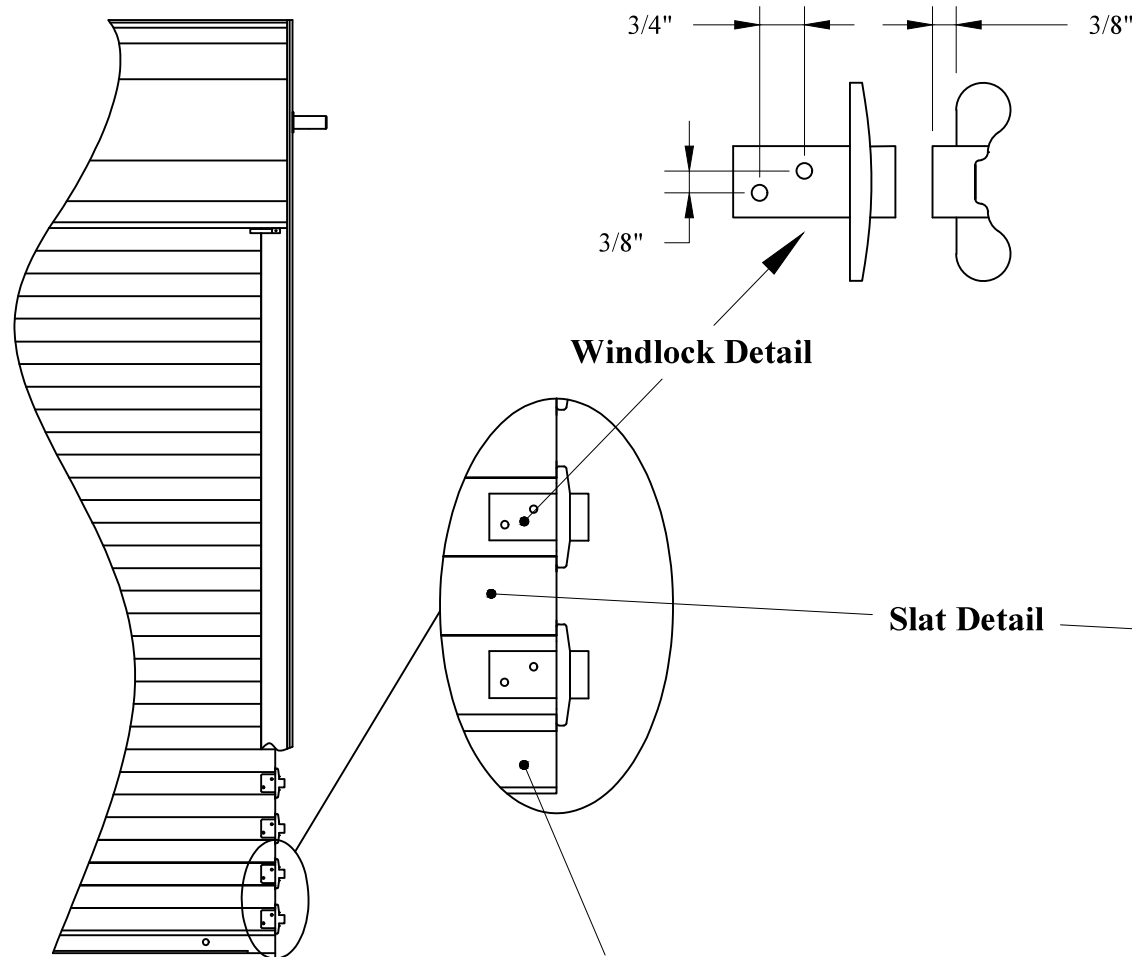
Evaluated Pressures (PSF)
Table C - Sheet 4

Drawing
Z12-16-92007

This door Complies with current FBC (See Eval Report)
This door complies with IBC/IRC 2018/2021/2024 (Texas)
Tested per ANSI/DASMA 108
This door has not been tested for windborne debris

Interior / Exterior Mounted Doors

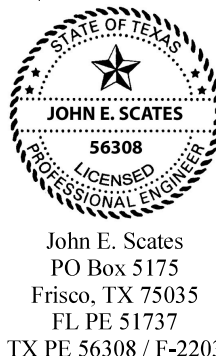
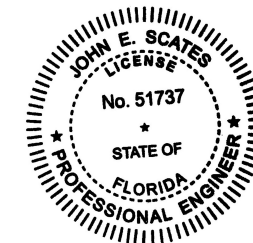
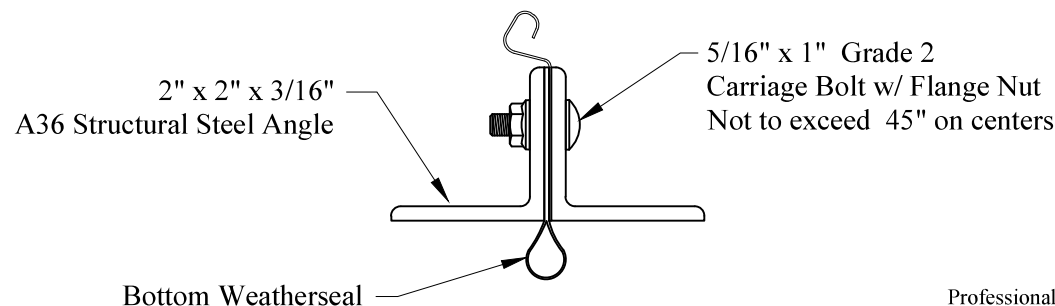
- When this type of door is mounted on the interior of an exterior wall, the slat face is exposed to the building exterior and the slat coil is exposed to the building interior. Pressure values in Table C, sheet 4 are for this installation type. See detail below for slat terms.
- When this type of door is mounted on the exterior of an exterior wall, the slat coil is exposed to the building exterior and the slat face is exposed to the building interior. Pressure values in Table C, sheet 4 need to be reversed. See sheet 4 for details.



Door Elevation

Guide partially removed to reveal curtain details
see page 1 for full elevation

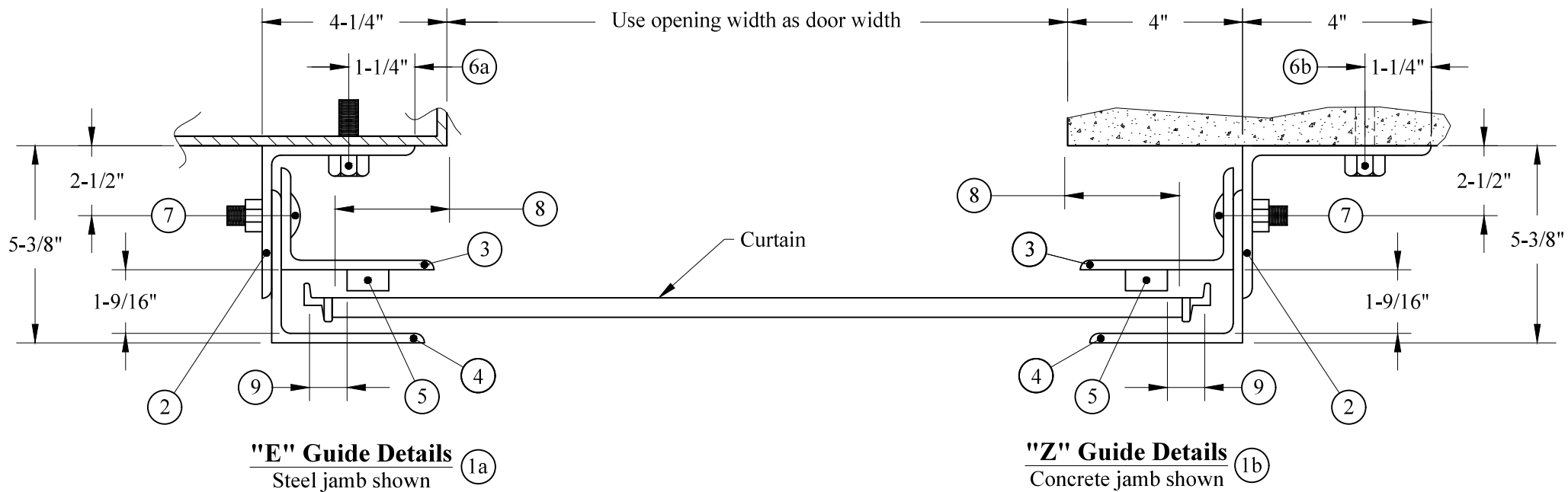
Bottom Bar Detail



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	DATE	12-17-2021
		Sheet 2 of 4
Rolling Steel Doors Models: 6181, 6201, 6221 & 6266		
		Evaluated Widths
		12'-04" through 20'-04"
Evaluated Pressures (PSF)		Drawing
Table C - Sheet 4		Z12-16-92007

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1.) Jambs (by others) must be designed to withstand the direct loading and catenary forces shown on sheet 1, tables A & B

1a: 3/16" min thickness A500 structural material

or

1b: 2500 psi min concrete

or

1b: 2000 psi min Filled CMU

2.) Wall Angle

1a: 3-1/2" x 3-1/2" x 1/4" A36 structural steel

or

1b: 4" x 3-1/2" x 5/16" A36 structural steel

3.) Back Angle

2" x 3" x 3/16" A36 structural steel

4.) Face Angle

3-1/2" x 3-1/2" x 1/4" A36 structural steel

5.) Windlock Bar

1/2" x 1" hot rolled steel bar welded to back angle, 3/16" x 3/8" fillet welds, alternating sides, not to exceed 16" on center

6a.) Wall Angle to Jamb Attachment (see sheet 4 for fastener spacing)

Steel Jamb: Bolted

3/8"-16 x 1" ASME B18.6.3 self-tapping bolt

6b.) Wall Angle to Jamb Attachment (see sheet 4 for fastener spacing)

Concrete Jamb: Bolted

Simpson Strong-Tie Titen HD 3/8" x 4"

or

Filled CMU Jamb: Through Bolted with Crush Plates

1/2"-13 bolt or rod (min 115,000 psi), nut, and 1" O.D. flat washers with 3-1/2" x 3-1/2" x 1/4" A36 steel or better crush plates

7.) Guide to Guide Fasteners

1/2"-13 x 1-1/4" grade 5 carriage bolt, serrated-flange locknut, not to exceed 24" on centers

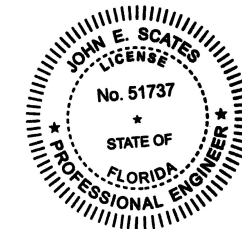
8.) Slat Length

Slat overlaps opening 2-3/8"

9.) Slip Dimension

5/8" from windlock tab to windlock bar

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	Sheet 3 of 4	
Rolling Steel Doors Models: 6181, 6201, 6221 & 6266		
	Evaluated Widths 12'-04" through 20'-04"	
Evaluated Pressures (PSF) Table C - Sheet 4	Drawing Z12-16-92007	

Table C: Fastening Type and Attachment Spacing of Wall Angle to Jamb

see Sheet 3 for jamb and fastener specifications

3/16" A500 steel jambs

width	spacing	psf
12'-04"	20"	+74/-74
13'-04"	20"	+68/-68
14'-04"	20"	+63/-63
15'-04"	20"	+59/-59
16'-04"	20"	+56/-56
17'-04"	20"	+50/-50
18'-04"	20"	+46/-46
19'-04"	20"	+42/-42
20'-04"	20"	+38 /-38

2500 PSI concrete jambs

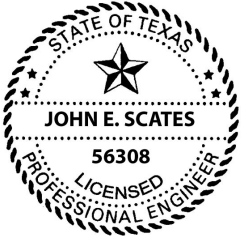
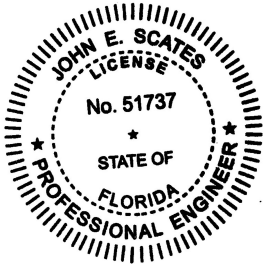
width	spacing	psf
12'-04"	20"	+74/-74
13'-04"	20"	+68/-68
14'-04"	20"	+63/-63
15'-04"	20"	+59/-59
16'-04"	20"	+56/-56
17'-04"	20"	+50/-50
18'-04"	20"	+46/-46
19'-04"	20"	+42/-42
20'-04"	20"	+38 /-38

Filled CMU

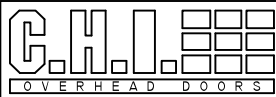
width	spacing	psf
12'-04"	19"	+74/-74
13'-04"	16"	+68/-68
14'-04"	16"	+63/-63
15'-04"	14"	+59/-59
16'-04"	14"	+56/-56
17'-04"	14"	+50/-50
18'-04"	14"	+46/-46
19'-04"	14"	+42/-42
20'-04"	14"	+38 /-38

Interior / Exterior Mounted Doors

- Values in Table C apply to this type of door when installed with the slat face exposed to the listed positive (+) pressure values and the slat coil exposed to the listed negative (-) pressure values, typical of this type of door when mounted on the interior of an exterior wall. See sheet 2 for slat terms.
- When this type of door is mounted on the exterior of an exterior wall, the slat coil is exposed to positive (+) pressure and the slat face exposed to negative (-) pressure. Values shown on Table C need to be reversed, i.e. negative (-) pressure values are to be used for positive (+) pressure requirements, positive (+) pressure values are to be used for negative (-) pressure requirements.



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Sheet 4 of 4

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Evaluated Widths
12'-04" through 20'-04"

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Evaluated Pressures (PSF)
Table C - Sheet 4

Drawing
Z12-16-92007