

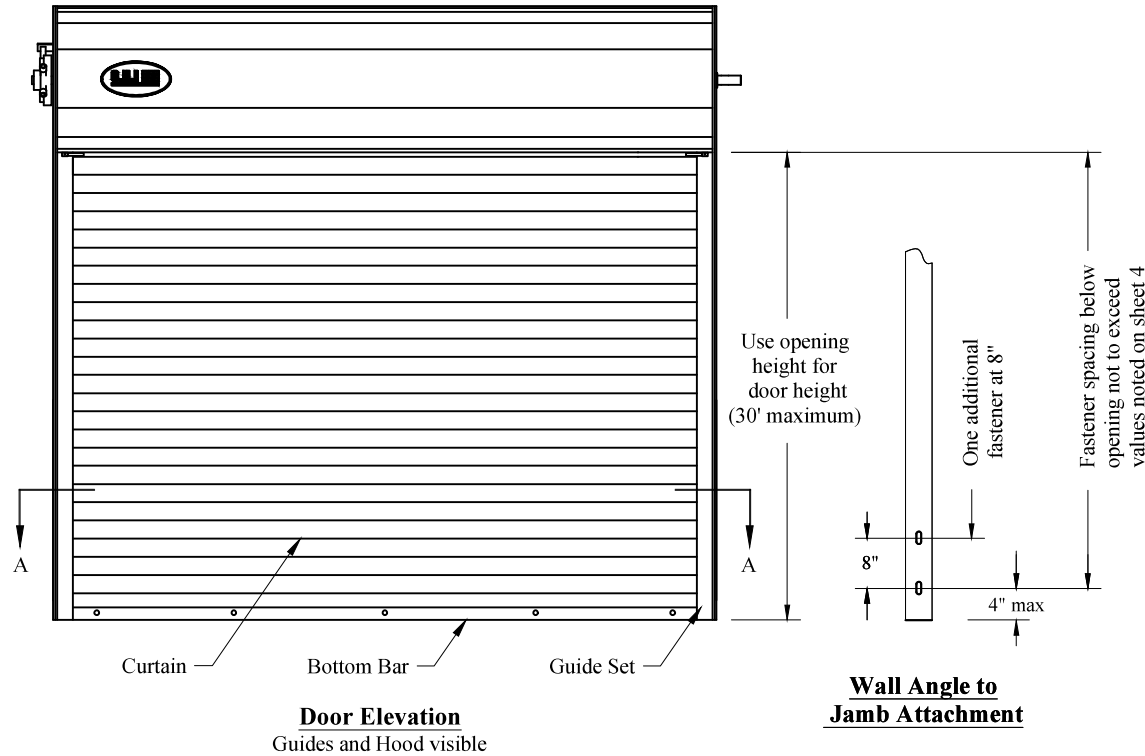
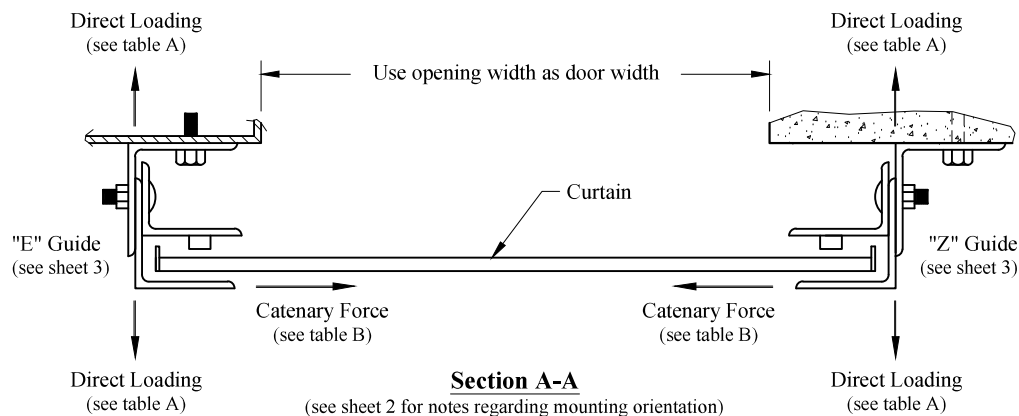


Table A: Direct Loading
(pounds per foot of door height per jamb)
Direct loading forces occur in both (+) and (-) directions.
Lower PSF exposures will generate lower values.

door width	max psf (+/-)	direct loading
22'-04"	70	800
23'-04"	67	800
24'-04"	64	800
25'-04"	62	805
26'-04"	60	805
27'-04"	56	805
28'-04"	53	765
30'-04"	48	740

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.

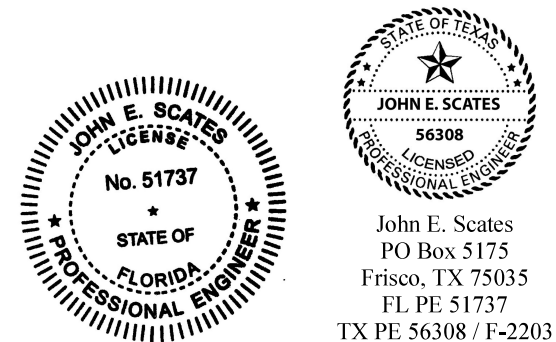
door width	max psf (+/-)	catenary force
22'-04"	70	4800
23'-04"	67	4900
24'-04"	64	5000
25'-04"	62	5100
26'-04"	60	5300
27'-04"	56	5200
28'-04"	53	5200
30'-04"	48	5200



Digitally signed by John E Scates
Date: 2026.08.17 19:05:24 -05'00'

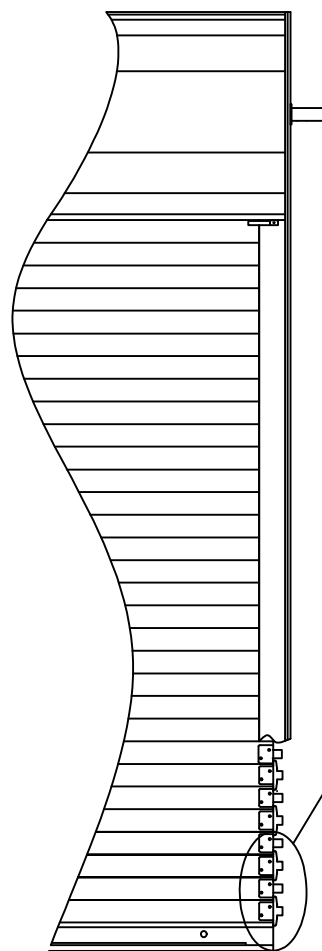
Professional Engineer's seal
provided only for verification of
windload construction details

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies



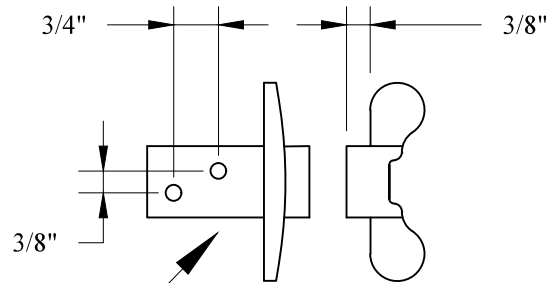
	DATE 12-28-2021
	Sheet 1 of 4
Rolling Steel Doors Models: 6202, 6222, & 6242	
Evaluated Pressures (PSF) Table C - Sheet 4	Evaluated Widths 22'-04" through 30'-04" Drawing Z12-26-93007

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

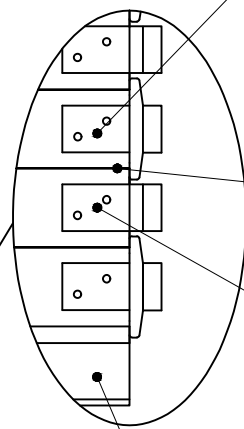


Door Elevation

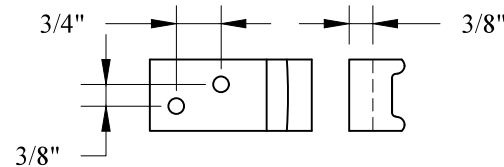
Guide partially removed to reveal curtain details
see page 1 for full elevation



Full-Windlock Detail

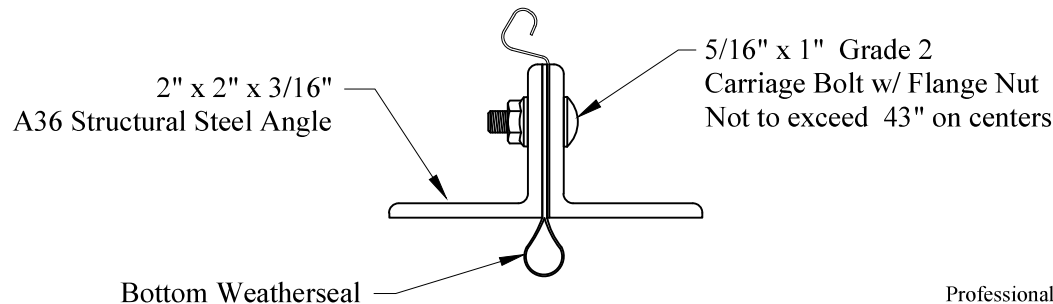


Slat Detail



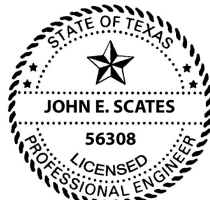
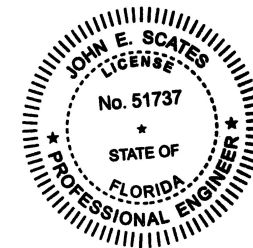
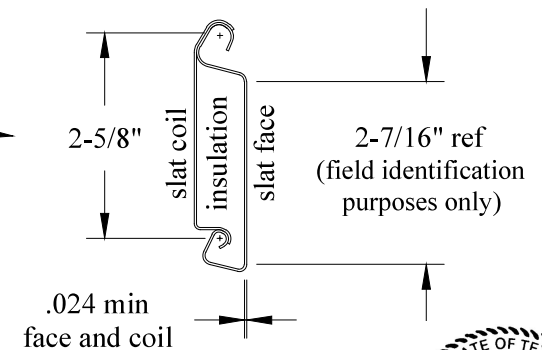
Partial-Windlock Detail

Bottom Bar Detail



Interior / Exterior Mounted Doors

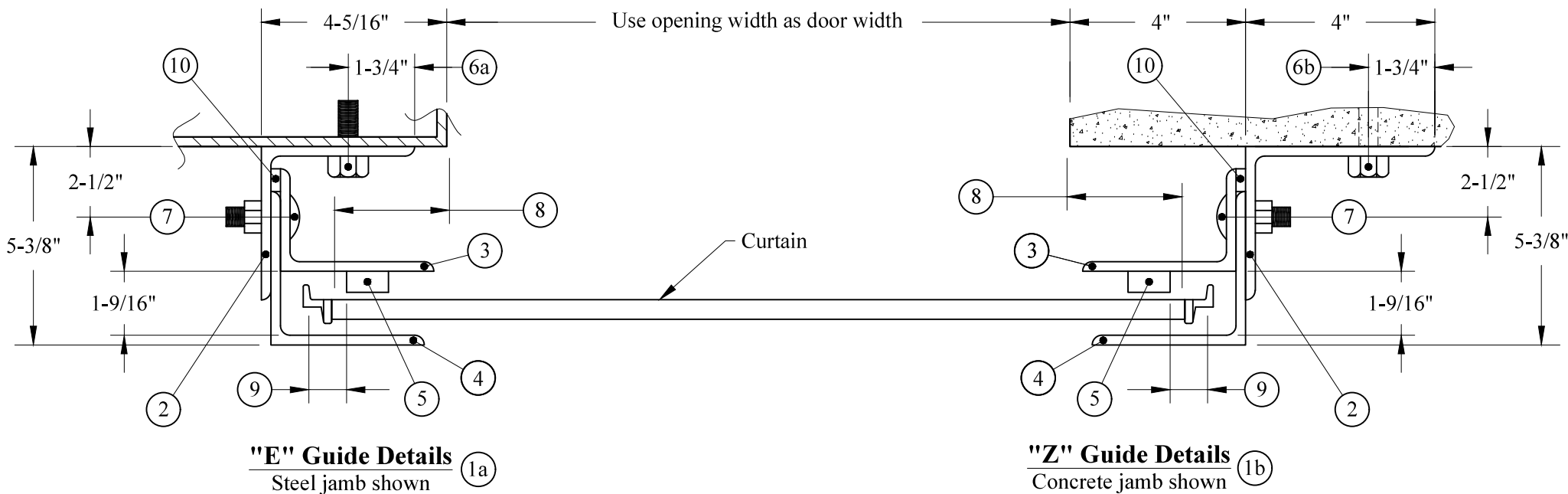
- When this type of door is mounted on the interior of an exterior wall, the slat face is exposed to the building exterior and the slat coil is exposed to the building interior. Pressure values in Table C, sheet 4 are for this installation type. See detail below for slat terms.
- When this type of door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



John E. Scates
PO Box 5175
Frisco, TX 75035
FL PE 51737
TX PE 56308 / F-2203

	DATE 12-28-2021
	Sheet 2 of 4
Rolling Steel Doors Models: 6202, 6222, & 6242	
Evaluated Pressures (PSF) Table C - Sheet 4	Evaluated Widths 22'-04" through 30'-04" Drawing Z12-26-93007

Professional Engineer's seal
provided only for verification of
windload construction details



1.) Jamb (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: 4000 psi min concrete, bolted

or

1b: 2500 psi min concrete, through bolted

or

1b: 2000 psi min Filled CMU

2.) Wall Angle

4" x 4" x 5/16" A36 structural steel

3.) Back Angle

3-1/2" x 2-1/2" x 1/4" 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

1/2"-13 x 1-1/4" ASME B18.6.3 self-tapping bolt

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

Concrete Jamb (min 4000 psi): Bolted

Simpson Strong-Tie Titen HD 1/2" x 6"

or

Concrete Jamb (min 2500 psi): Through Bolted with Crush Plates

5/8"-11 bolt or rod (min 150,000 psi), nut, and 1" O.D. flat washers with 4" x 4" x 1/4" A36 steel or better crush plates

or

Filled CMU Jamb: Through Bolted with Crush Plates

5/8"-11 bolt or rod (min 115,000 psi), nut, and 1" O.D. flat washers with 4" x 4" 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 18" on centers

8.) Slat Length

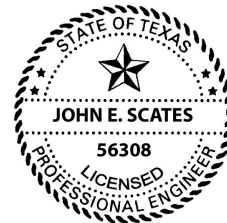
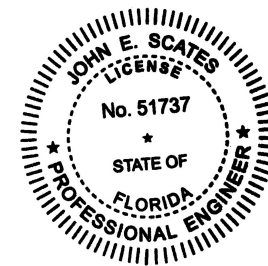
Slat overlaps opening 2-3/8"

9.) Slip Dimension

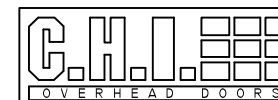
5/8" from windlock tab to windlock bar

10.) 1/4" x 3/4" hot rolled steel shim

Professional Engineer's seal
provided only for verification of
windload construction details



John E. Scates
PO Box 5175
Frisco, TX 75035
FL PE 51737
TX PE 56308 / F-2203



DATE 12-28-2021

Sheet 3 of 4

Rolling Steel Doors

Models: 6202, 6222, & 6242

Evaluated Widths

22'-04" through 30'-04"

Evaluated Pressures (PSF)

Table C - Sheet 4

Drawing

Z12-26-93007

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
22'-04"	16"	+70/-70
23'-04"	16"	+67/-67
24'-04"	16"	+64/-64
25'-04"	16"	+62/-62
26'-04"	16"	+60/-60
27'-04"	16"	+56/-56
28'-04"	16"	+53/-53
30'-04"	16"	+48/-48

2500 PSI concrete through bolted

width	spacing	psf
22'-04"	16"	+70/-70
23'-04"	16"	+67/-67
24'-04"	16"	+64/-64
25'-04"	16"	+62/-62
26'-04"	16"	+60/-60
27'-04"	16"	+56/-56
28'-04"	16"	+53/-53
30'-04"	16"	+48/-48

4000 PSI concrete bolted (Titen HD)

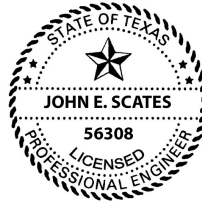
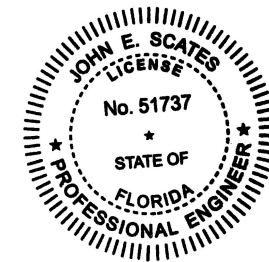
width	spacing	psf
22'-04"	16"	+70/-70
23'-04"	16"	+67/-67
24'-04"	16"	+64/-64
25'-04"	16"	+62/-62
26'-04"	16"	+60/-60
27'-04"	16"	+56/-56
28'-04"	16"	+53/-53
30'-04"	16"	+48/-48

Filled CMU through bolted

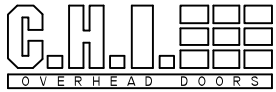
width	spacing	psf
22'-04"	8"	+68/-60
23'-04"	8"	+63/-56
24'-04"	8"	+59/-53
25'-04"	8"	+56/-50
26'-04"	8"	+52/-47
27'-04"	8"	+49/-44
28'-04"	8"	+47/-42
30'-04"	8"	+42/-38

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.



John E. Scates
PO Box 5175
Frisco, TX 75035
FL PE 51737
TX PE 56308 / F-2203

	DATE 12-28-2021
	Sheet 4 of 4
Rolling Steel Doors Models: 6202, 6222, & 6242	
	Evaluated Widths 22'-04" through 30'-04"
Evaluated Pressures (PSF) Table C - Sheet 4	Drawing Z12-26-93007

Professional Engineer's seal
provided only for verification of
windload construction details