



Supplemental Instructions

Rib Doors: Commercial

CAUTION

Higher wind pressures and larger doors require additional reinforcement.

Premature failure of door system may result from improper application.

See chart in lower left corner of drawing sheet one for the approved wind pressures and door sizes.

WARNING

These supplemental instructions do not contain basic door installation steps and related safety information.

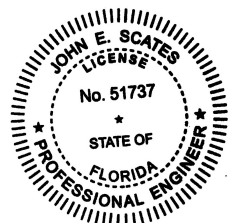
Failure to follow basic installation steps and related safety information may result in injury or death.

Door installers must follow a primary instruction manual for basic door installation steps and related safety information.

The correct selection of door and framing materials in adherence with local building code directives is the responsibility of the building owner/designer. Use of a reinforced garage door does not constitute automatic compliance with any building code. Local building code officials determine compliance criteria.

A locking system must be installed if the door is not electrically operated.

See drawing for stop molding requirements, when door is not more than 1" wider than opening. When using stop molding, secure molding with minimum 8d nails or 2-1/2" long screws.



Digitally signed by John E Scates
Date: 2026.08.15 12:14:55 -05'00'

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windload construction details

For Use With Drawing Number Z7i-18-61517

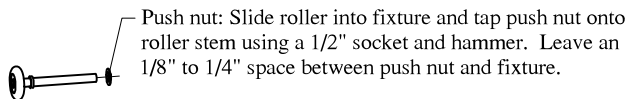
Strut Placement

Section Number	Door Height								
	6'-0" to 8'-0"	8'-3" to 10'-0"	10'-3" to 12'-0"	12'-3" to 14'-0"	14'-3" to 16'-0"	16'-3" to 18'-0"	18'-3" to 20'-0"	20'-3" to 22'-0"	22'-3" to 24'-0"
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 at Detail A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C
10	N/A	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
9	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
8	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
7	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
6	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
5	N/A	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
4	1 at Detail A	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
3	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C	1 at Detail B 1 at Detail C
2	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C
1	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C	1 at Detail C

Push Nut Detail (use on all rollers)

use 3/8" I. D. on bottom fixture roller stem

use 7/16" I. D. on end hinge and top fixture roller stems

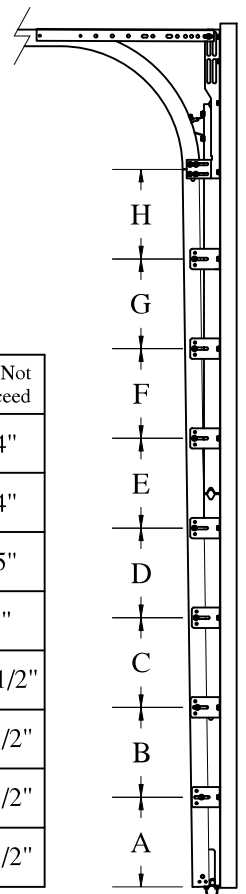


Track Bracket Spacing

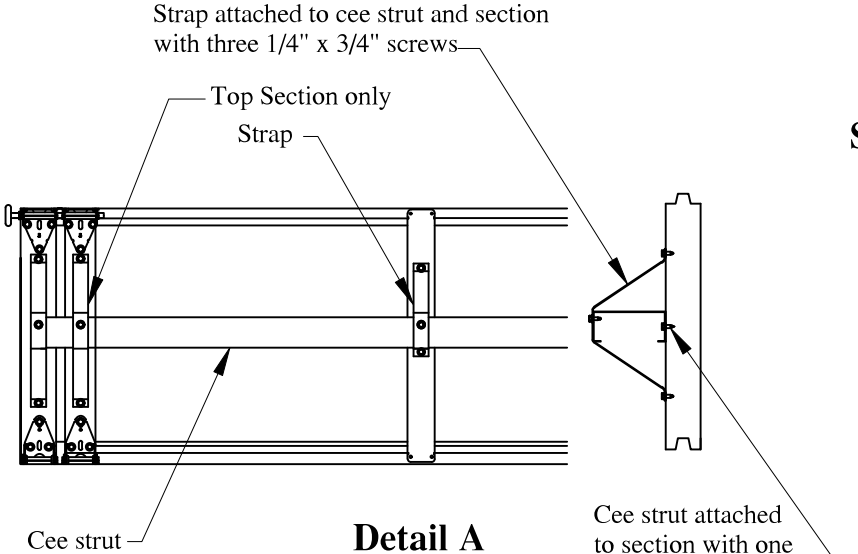
Track bracket spacing shown for doors up to four sections high. Additional door sections may be added for maximum door height depicted on line drawing. Track brackets must be added (per track) for each section and spaced at a distance not greater than the corresponding section height (see line drawing for required quantities).

	Do Not Exceed
H	14"
G	14"
F	15"
E	9"
D	14-1/2"
C	9-1/2"
B	6-1/2"
A	3-1/2"

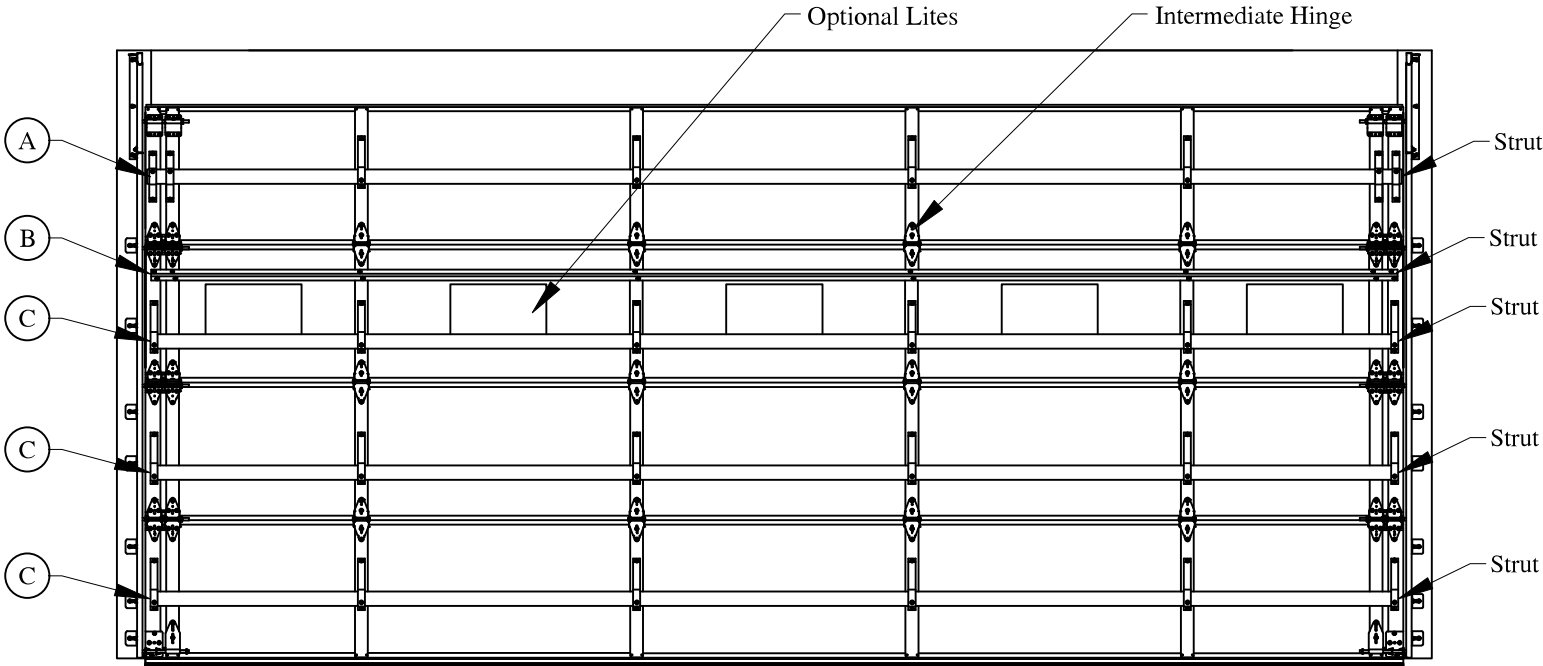
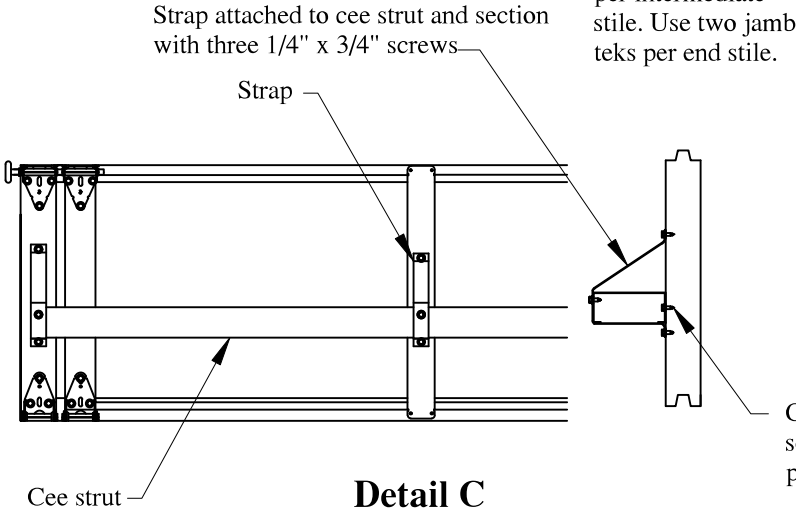
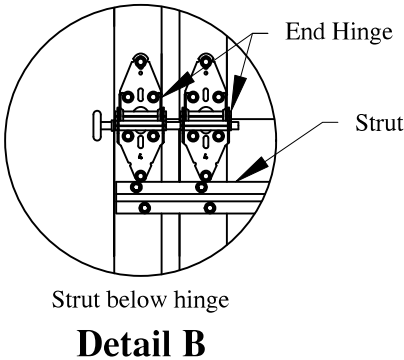
+/-3" tolerance



For Use With Drawing Number
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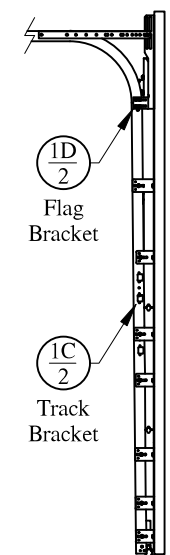
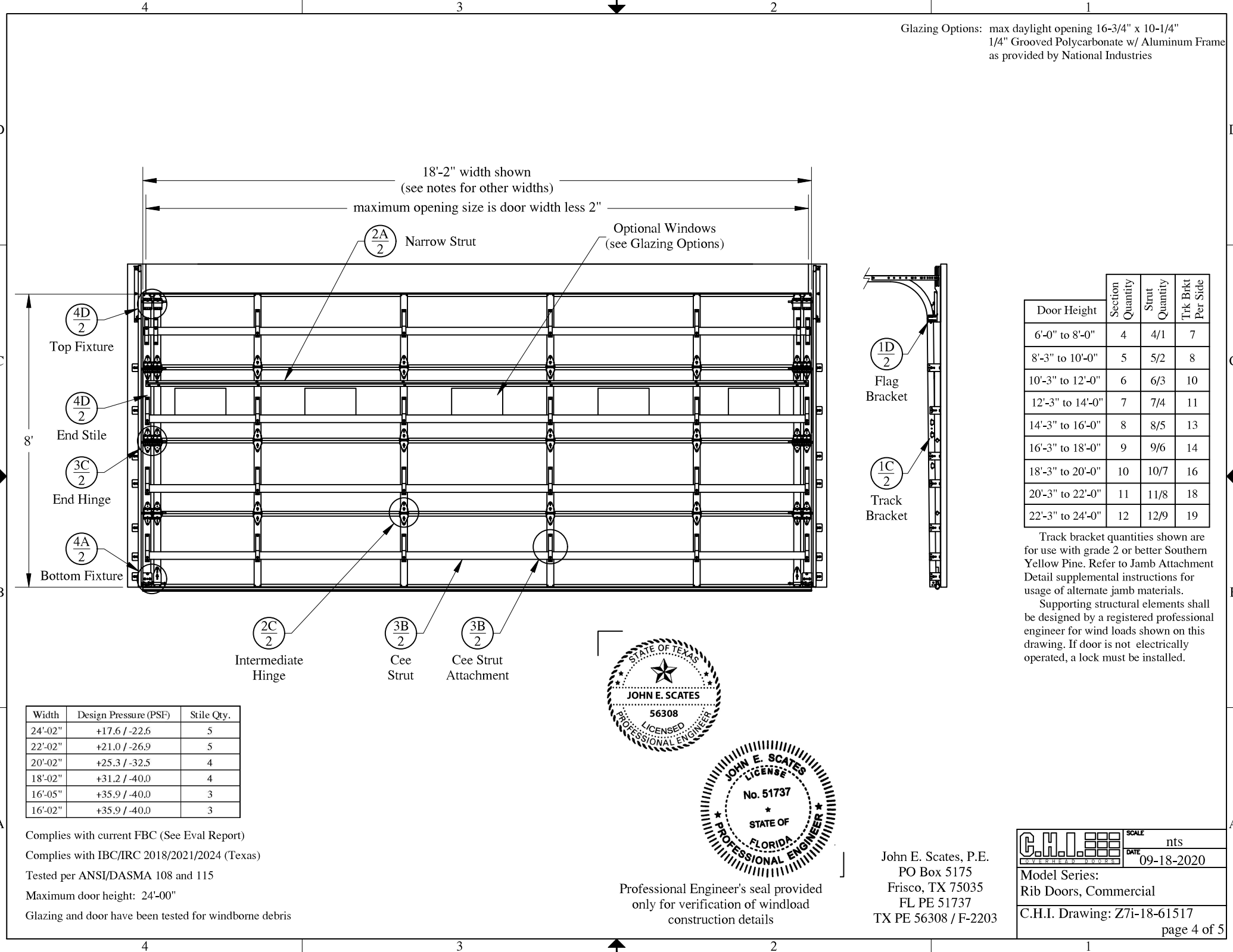


Strut Attachment Detail



5 Struts

Glazing Options: max daylight opening 16-3/4" x 10-1/4"
1/4" Grooved Polycarbonate w/ Aluminum Frame
as provided by National Industries



Door Height	Section Quantity	Strut Quantity	Trk Brkt Per Side
6'-0" to 8'-0"	4	4/1	7
8'-3" to 10'-0"	5	5/2	8
10'-3" to 12'-0"	6	6/3	10
12'-3" to 14'-0"	7	7/4	11
14'-3" to 16'-0"	8	8/5	13
16'-3" to 18'-0"	9	9/6	14
18'-3" to 20'-0"	10	10/7	16
20'-3" to 22'-0"	11	11/8	18
22'-3" to 24'-0"	12	12/9	19

Track bracket quantities shown are for use with grade 2 or better Southern Yellow Pine. Refer to Jamb Attachment Detail supplemental instructions for usage of alternate jamb materials.

Supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing. If door is not electrically operated, a lock must be installed.

Width	Design Pressure (PSF)	Stile Qty.
24'-02"	+17.6 / -22.6	5
22'-02"	+21.0 / -26.9	5
20'-02"	+25.3 / -32.5	4
18'-02"	+31.2 / -40.0	4
16'-05"	+35.9 / -40.0	3
16'-02"	+35.9 / -40.0	3

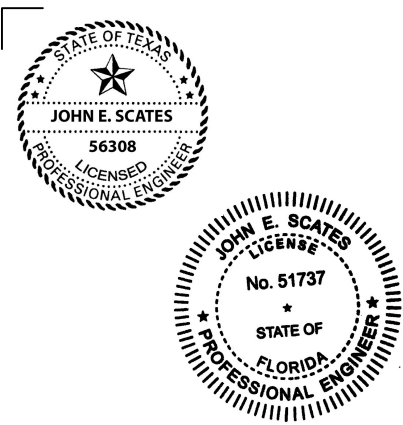
Complies with current FBC (See Eval Report)

Complies with IBC/IRC 2018/2021/2024 (Texas)

Tested per ANSI/DASMA 108 and 115

Maximum door height: 24'-00"

Glazing and door have been tested for windborne debris



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C.H.I. 333
OVERHEAD DOORS

SCALE
nts
DATE
09-18-2020

Model Series:
Rib Doors, Commercial

C.H.I. Drawing: Z7i-18-61517
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Details on some views may have been omitted for clarity.

Top Fixture
(.097) galvanized steel top fixture with carrier and carrier support attached with four 1/4" x 3/4" screws.

push nut

(.045) steel intermediate stile

End Stile

(.066) steel end stile

Optional Top Fixture

(.109) galvanized steel top fixture attached with two 1/4" x 3/4" screws.

push nut

(.066) steel end stile

(.045) steel intermediate stile

2" (max. for .069 thick)
4" (max. for .109 thick)

The vertical wood jamb fasteners may be counter sunk to provide a flat mounting surface. See jamb attachment details for more information about attaching jambs to structure.

1" overlap

nominal (.018) galvanized steel minimum

(.045) center stile

2" (min) x .080 (min)
galvanized steel track

End Hinge

galvanized steel attached with six 1/4" x 3/4" screws.

push nut (additional push nut on #2 hinge only)

Intermediate Hinge

(.058) galvanized steel attached with four 1/4" x 3/4" screws.

Flag Bracket

(.086) galvanized steel flag bracket attached to wood jamb with three 5/16" x 1-5/8" wood lag screws, to horizontal track with two 1/4" x 5/8" track bolts and nuts and to vertical track with two 1/4" x 5/8" track bolts and nuts.

Track Bracket

(.102) galvanized steel track bracket attached to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket and attached to vertical track with one 1/4" x 5/8" track bolt and nut or two 1/4" x 11/32" rivets.

nominal Ø 2" (min.)
10 (min.) ball roller with steel tire.

9" (min.) high strength stem

Auxiliary Bottom Bracket

(.109) galvanized steel bracket attached with two 1/4" x 3/4" screws. push nut

Optional Bottom Bracket

(.109) galvanized steel bottom bracket attached with four red 1/4" x 3/4" screws.

Auxiliary Bottom Bracket

(.109) galvanized steel bracket attached with two 1/4" x 3/4" screws. push nut

Bottom Bracket

(.102) galvanized steel bracket attached with four red 1/4" x 3/4" screws.

Aluminum extrusion

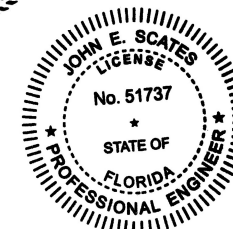
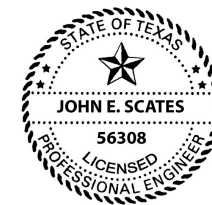
Vinyl weatherstrip

Cee Strut and Strap Attachment

(.073) 50 ksi galvanized steel 6" Cee Strut attached with one 1/4" x 3/4" self tapping screw per stile or backer plate, one additional self tapping screw is used on each end stile. One (.098) strap attached to section with two 1/4" x 3/4" screws and attached to strut with one 1/4" x 3/4" screw at each hinge location. Top section utilizes two (.054) straps per end stile.

Narrow Strut and Strut Attachment

(.051) 50 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile.



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C.H.I. 333	SCALE	nts
	DATE	09-18-2020
Model Series: Rib Doors, Commercial		
C.H.I. Drawing: Z7i-18-61517		
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