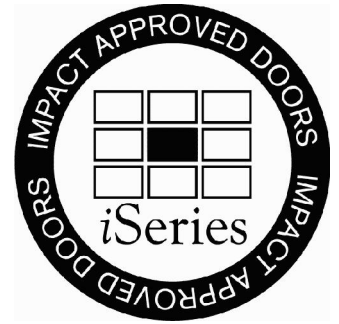
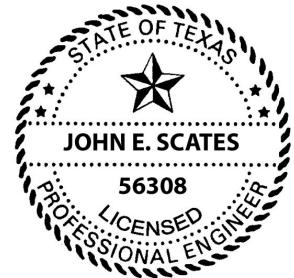




Supplemental Wind Load Instructions Sandwich Doors: Residential

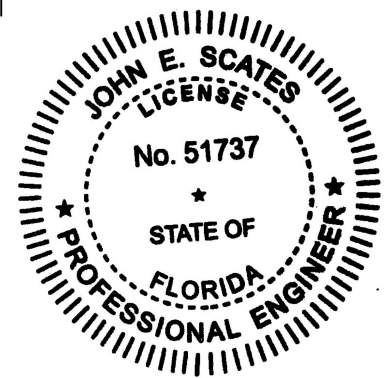


 CAUTION	Higher wind pressures and larger doors require additional reinforcement. Premature failure of door system may result from improper application. See chart in lower left corner of drawing sheet one for the approved wind pressures and door sizes.
 WARNING	These instructions do not contain basic 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.



Professional Engineer's seal provided only for verification of wind load construction details. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by John E Scates
Date: 2025.05.28 18:03:50 -05'00'

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

For Use With Drawing Number Z9i-10-02503

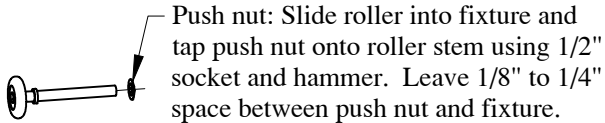
Strut Placement

Section Number	Door Height									
	6'-6" to 7'-0"	7'-6" to 8'-0"	8'-3" to 8'-9"	9'-0" to 10'-6"	10'-9" to 12'-3"	12'-6" to 14'-0"	14'-3" to 15'-9"	16'-0" to 17'-6"	17'-9" to 19'-3"	19'-6" to 20'-0"
12	N/A	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	N/A	1 at Detail A	1 at Detail B
10	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 B
9	N/A	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B
8	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
7	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
6	N/A	N/A	N/A	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
5	N/A	1 at Detail A	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
4	1 at Detail A	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
3	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
2	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
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	1 at Detail C

Push Nut Detail (use on all rollers)

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

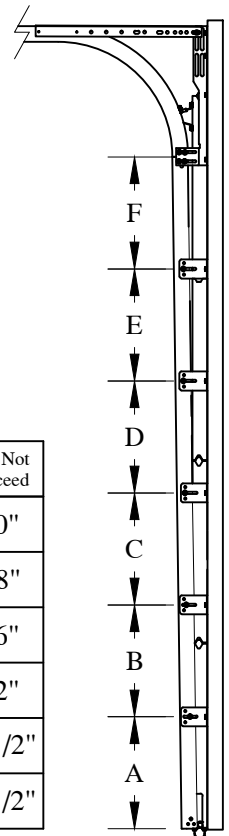
use 7/16" I. D. on end hinge and top fixture roller stems



Track Bracket Spacing

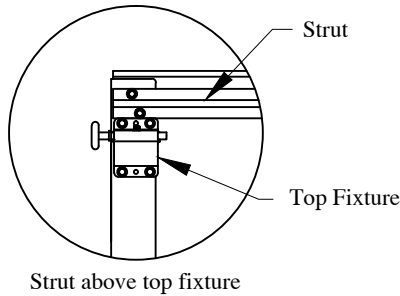
Track bracket spacing shown for doors up to four sections high. Additional door sections may be added for maximum door height depicted on door drawing. Track brackets must be added (per track) for each section and spaced at a distance not greater than the corresponding section height (see door drawing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

	Do Not Exceed
F	10"
E	28"
D	16"
C	12"
B	6-1/2"
A	3-1/2"

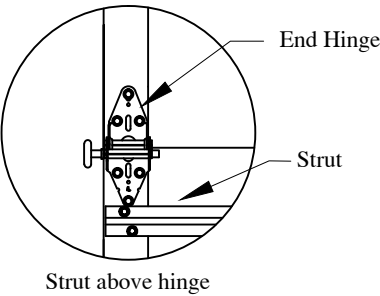


For Use With Drawing Number
Z9i-10-02503

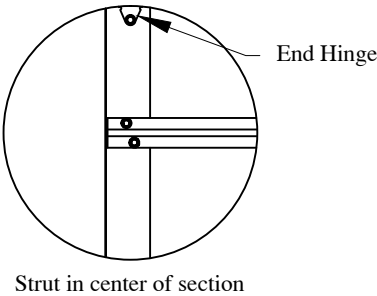
Strut Placement Detail



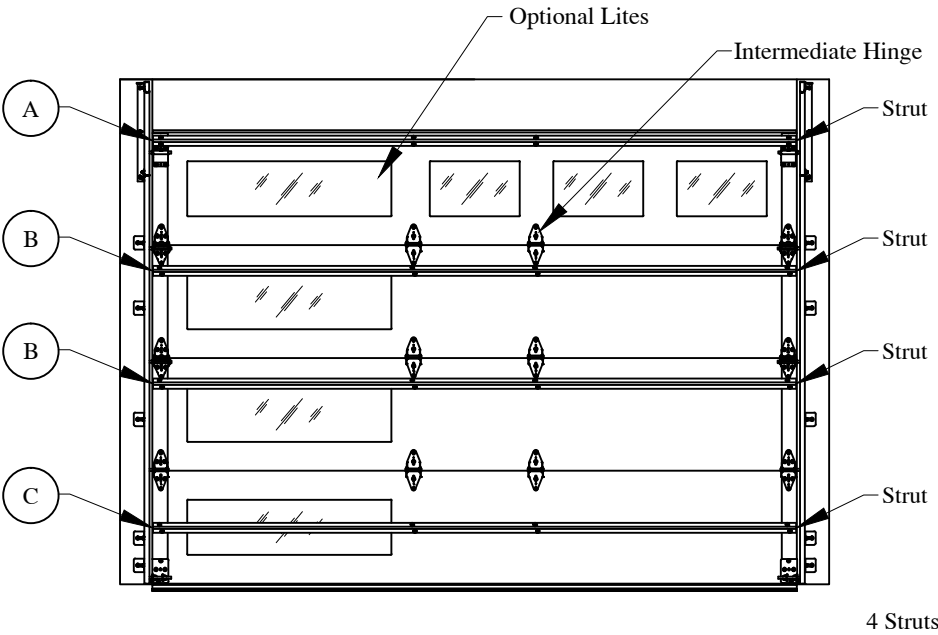
Detail A



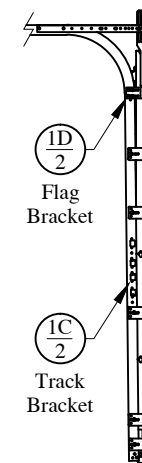
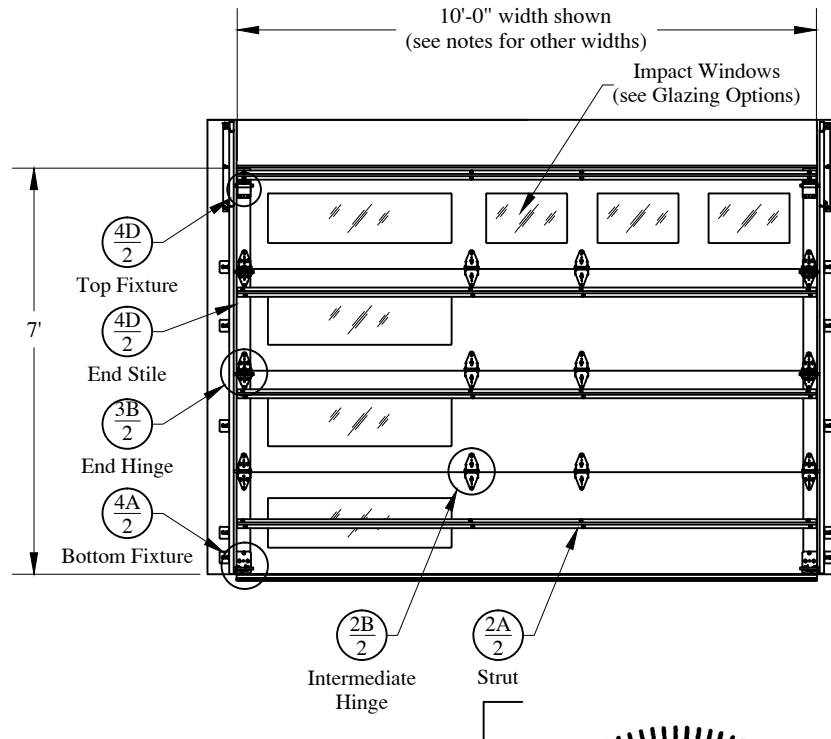
Detail B



Detail C



Glazing Options: 1/4" thick polycarbonate
 ◦ exterior mounted-factory installed with decorative frame
 ◦ 2-1/2" larger than Day Light Opening
 16-3/4" x 10-1/4" D.L.O.
 ◦ 3/16" bulbing rivets - 5 top and bottom, 1 each side (12 total)
 38" x 10-1/4" D.L.O.
 ◦ 3/16" bulbing rivets - 11 top and bottom, 3 each side (28 total)



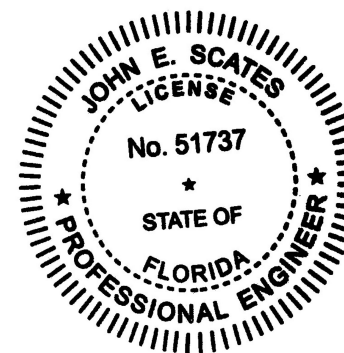
door height	section quantity	strut quantity	trk bkt per side
6'-6" to 7'-0"	4	4	5
7'-6" to 8'-0"	5	5	6
8'-3" to 8'-9"	5	5	6
9'-0" to 10'-6"	6	6	7
10'-9" to 12'-3"	7	7	8
12'-6" to 14'-0"	8	8	9
14'-3" to 15'-9"	9	9	10
16'-0" to 17'-6"	10	10	11
17'-9" to 19'-3"	11	11	12
19'-6" to 20'-0"	12	12	13

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.

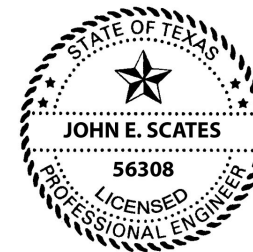
Supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing. If door is not electrically operated, a lock must be installed.

Width	Design Pressure (PSF)	Stile Qty.
<=9'-00"	+49.9 / -56.7	1
9'-06"	+47.1 / -54.2	1
10'-00"	+44.7 / 51.5	2

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



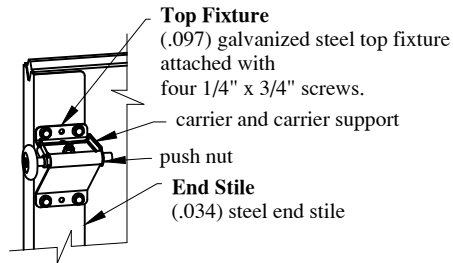
Professional Engineer's seal provided only for verification of windload construction details



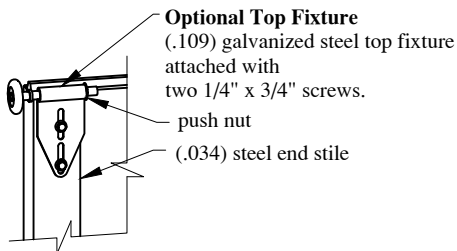
John E. Scates, PE
 PO Box 5175
 Frisco, TX 75035
 FL PE 51737
 TX PE 56308 / F-2203

C.H.I. Drawing: Z9i-10-02503	SCALE	nts
	DATE	03-03-2022
Model Series: Sandwich Doors, Residential		
page 4 of 5		

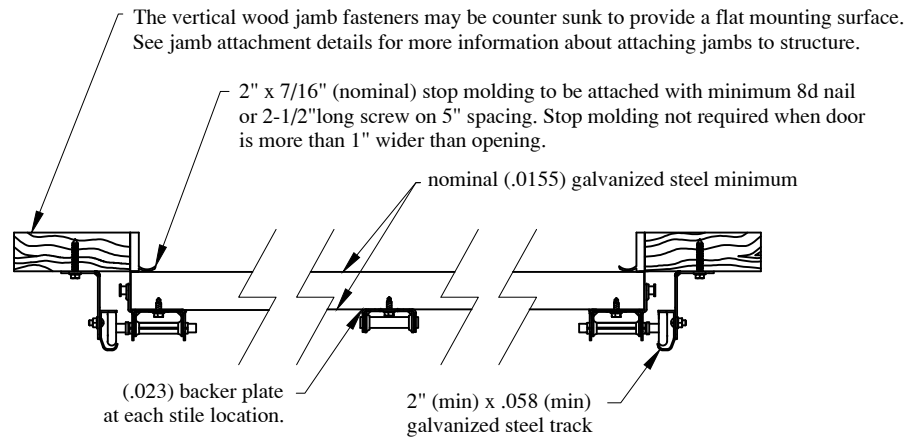
Details on some views may have been omitted for clarity.



Top Fixture
(.097) galvanized steel top fixture
attached with
four 1/4" x 3/4" screws.
carrier and carrier support
push nut
End Stile
(.034) steel end stile



Optional Top Fixture
(.109) galvanized steel top fixture
attached with
two 1/4" x 3/4" screws.
push nut
(.034) steel end stile



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.

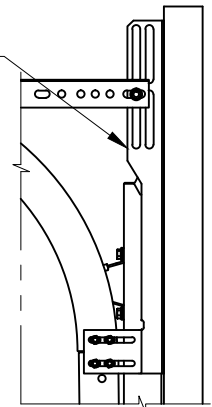
2" x 7/16" (nominal) stop molding to be attached with minimum 8d nail
or 2-1/2" long screw on 5" spacing. Stop molding not required when door
is more than 1" wider than opening.

nominal (.0155) galvanized steel minimum

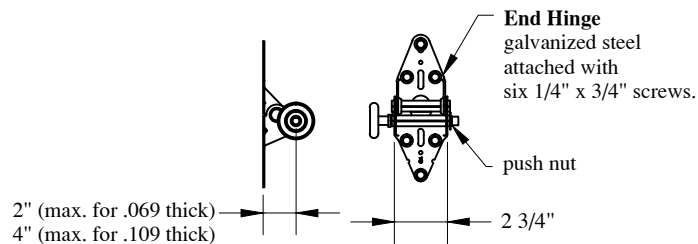
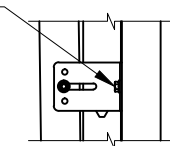
(.023) backer plate
at each stile location.

2" (min) x .058 (min)
galvanized steel track

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.



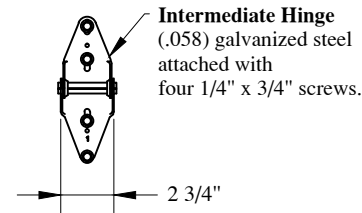
Track Bracket
(.102) galvanized steel track
bracket attached to wood jamb
with one 5/16" x 1-5/8" wood
lag screw per bracket and
attached to vertical track
with one 1/4" x 5/8" track bolt and
nut or two 1/4" x 11/32" rivets.



End Hinge
galvanized steel
attached with
six 1/4" x 3/4" screws.
push nut

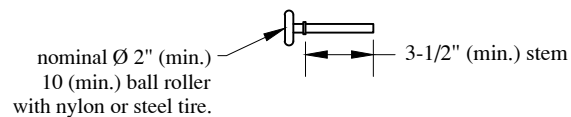
2" (max. for .069 thick)
4" (max. for .109 thick)

2 3/4"



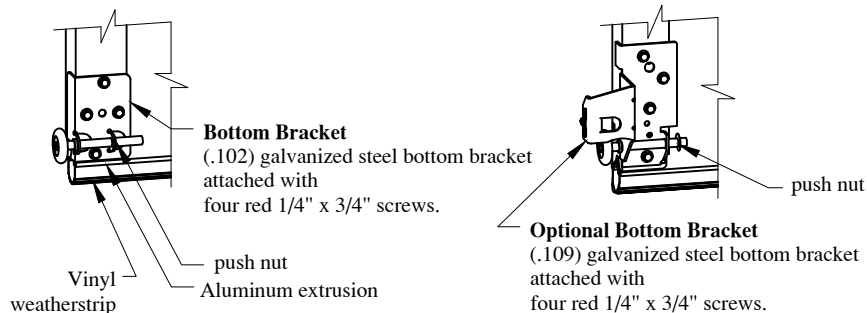
Intermediate Hinge
(.058) galvanized steel
attached with
four 1/4" x 3/4" screws.

2 3/4"



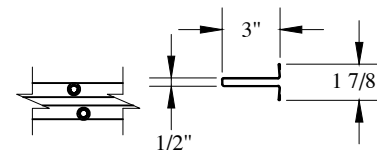
nominal Ø 2" (min.)
10 (min.) ball roller
with nylon or steel tire.

3-1/2" (min.) stem

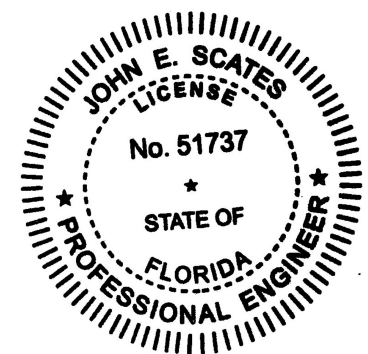


Bottom Bracket
(.102) galvanized steel bottom bracket
attached with
four red 1/4" x 3/4" screws.
push nut
Aluminum extrusion
Vinyl weatherstrip

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



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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construction details

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C.H.I. Drawing	SCALE	nts
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