





Supplemental Wind Load Instructions

Sandwich Doors: Residential

 CAUTION	<p>Higher wind pressures and larger doors require additional reinforcement.</p> <p>Premature failure of door system may result from improper application.</p> <p>See chart in lower left corner of drawing sheet one for the approved wind pressures and door sizes.</p>
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 WARNING	<p>These instructions do not contain basic door installation steps and related safety information.</p> <p>Failure to follow basic installation steps and related safety information may result in injury or death.</p> <p>Door installers must follow a primary instruction manual for basic door installation steps and related safety information.</p>
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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.

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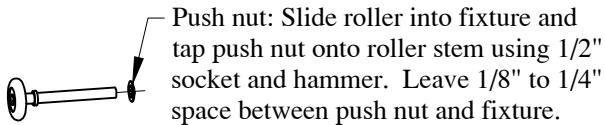
For Use With Drawing Number Z8-16-02303

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 1 at Detail B
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	1 at Detail B 1 at Detail C
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 1 at Detail C	1 at Detail B 1 at Detail C
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 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	N/A	1 at Detail A 1 at Detail B	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	N/A	1 at Detail A 1 at Detail B	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	N/A	1 at Detail A 1 at Detail B	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 A 1 at Detail B	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 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
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	1 at Detail B 1 at Detail C
2	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	1 at Detail B 1 at Detail C
1	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D	1 at Detail B 1 at Detail D

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

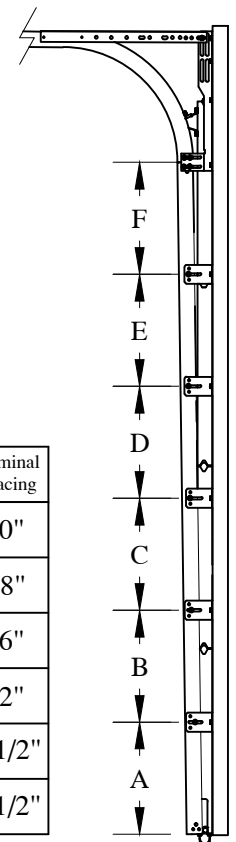
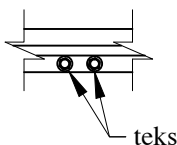


Track Bracket Spacing

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).

Strut Placement Concerning Windows

Where a strut crosses a window, it is acceptable to move the strut from a position of "Strut above hinge" down to "Strut on top half of the hinge". It is also acceptable to move teks screws from the upper leg of the strut down to the lower leg of the strut (shown below) if needed to keep both teks embedded in the section. Both applications may be used at the same time as required.

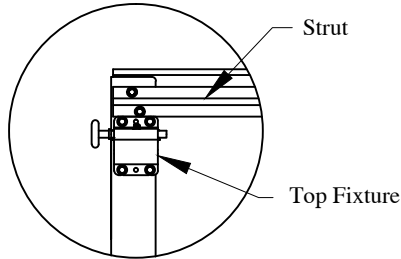


	Nominal Spacing
F	10"
E	28"
D	16"
C	12"
B	6-1/2"
A	3-1/2"

+/- 3" tolerance

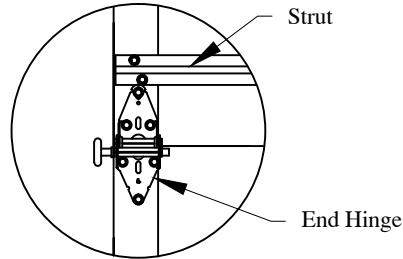
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Strut Placement Detail



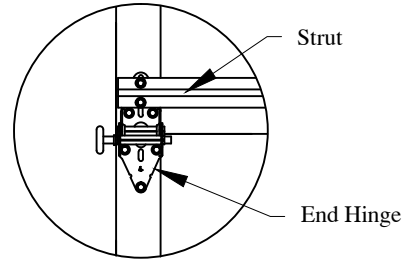
Strut above top fixture

Detail A



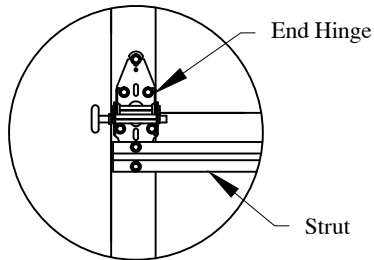
Strut above hinge

Detail B



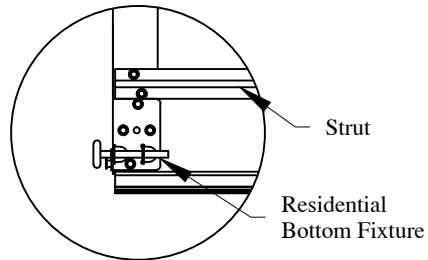
Strut on top half of hinge

Detail B
(optional placement)



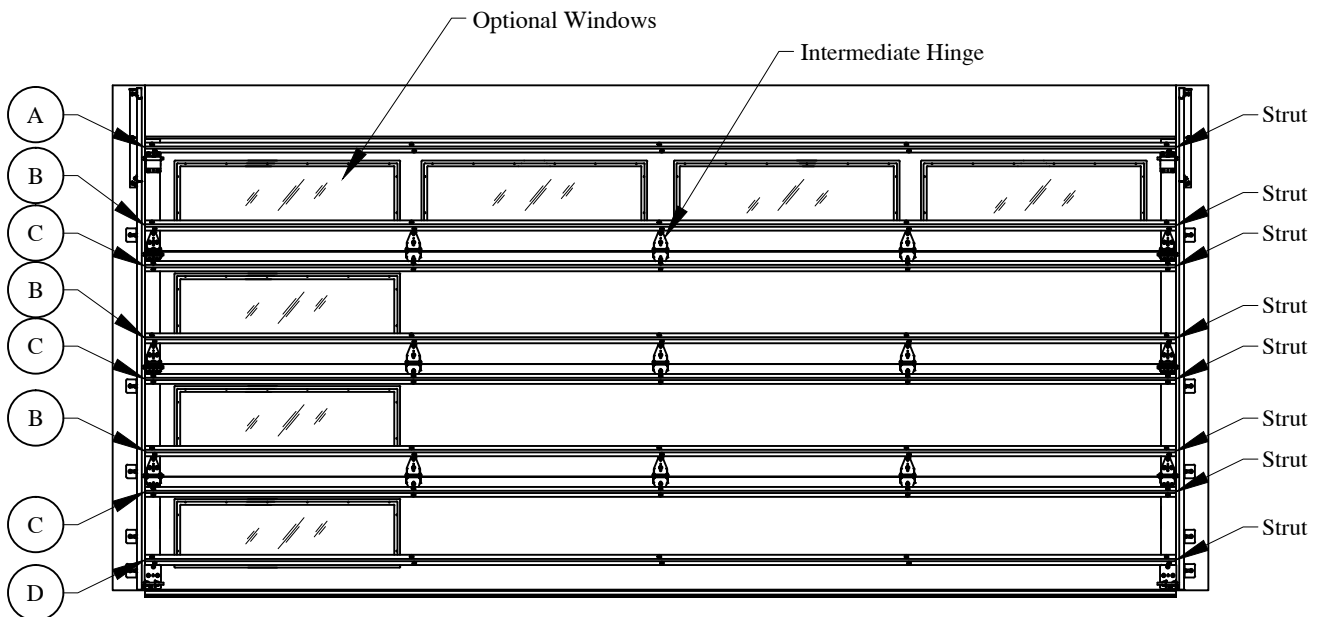
Strut on bottom half of hinge

Detail C



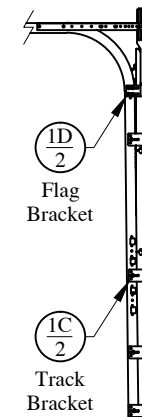
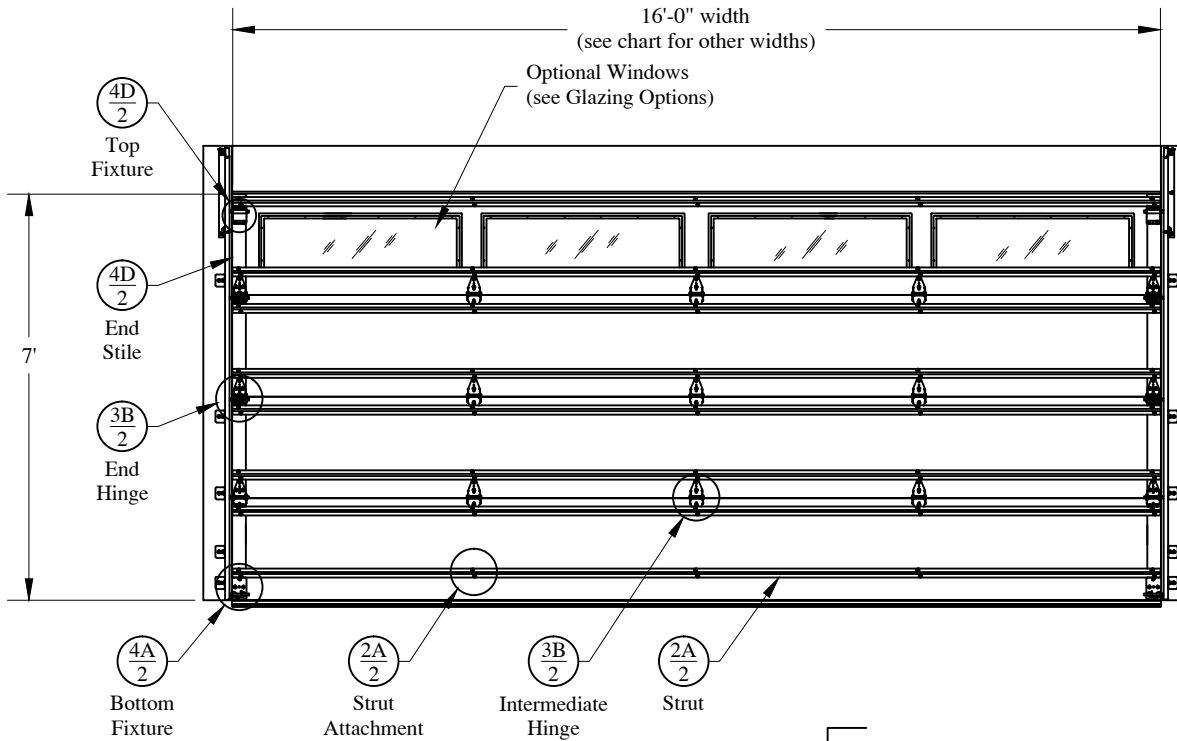
Strut above bottom fixture

Detail D



8 Struts

Glazing Options: (max daylight opening 39-3/8" x 12-1/2")
 ◦ 1/8" Annealed DSB Glass
 ◦ 1/4" Tempered Glass or Polycarbonate
 ◦ 7/16" Insulated Glass comprised of
 Two Annealed DSB Glass or
 Two Tempered DSB Glass



door height	section quantity	strut quantity	trk bkkt per side
6'-6" to 7'-0"	4	8	5
7'-6" to 8'-0"	5	10	6
8'-3" to 8'-9"	5	10	7
9'-0" to 10'-6"	6	12	8
10'-9" to 12'-3"	7	14	10
12'-6" to 14'-0"	8	16	11
14'-3" to 15'-9"	9	18	13
16'-0" to 17'-6"	10	20	14
17'-9" to 19'-3"	11	22	16
19'-6" to 20'-0"	12	24	17

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.

Complies with IBC/IRC 2018. Tested per ANSI/DASMA 108

Maximum door height: 20'-00"

Glazing and door have not been tested for windborne debris.

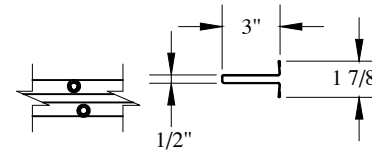
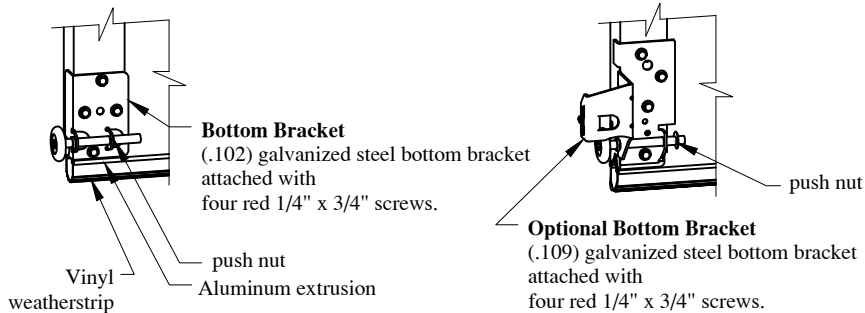
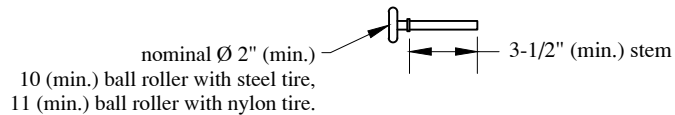
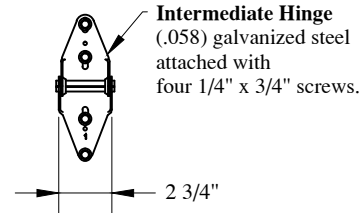
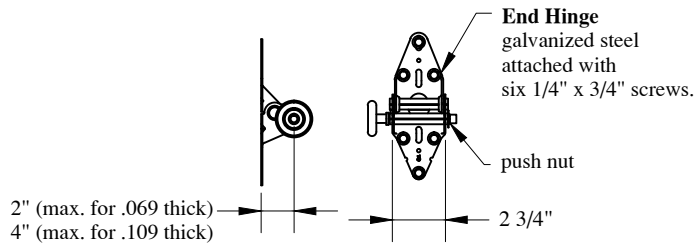
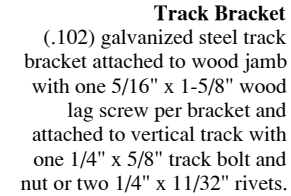
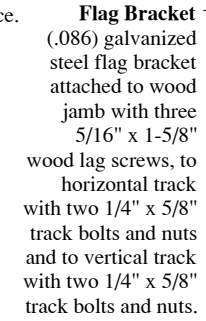
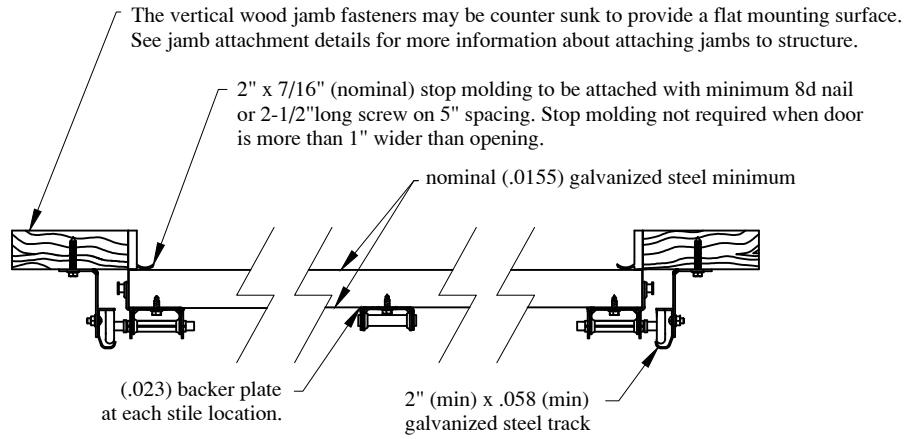
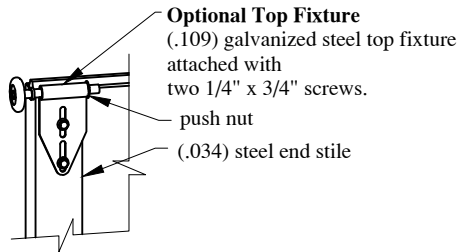
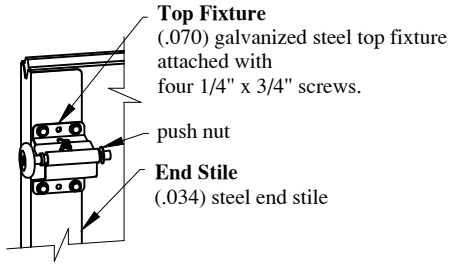
Width	Design Pressure (PSF)	Stile Qty.
12'-00"	+52.7 / -59.2	2
14'-00"	+45.1 / -50.7	2
15'-00"	+42.1 / -47.4	2
16'-00"	+39.5 / -44.4	3
20'-00"	+25.3 / -28.4	4

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

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	DATE	03-09-2022
Model Series: Sandwich Doors, Residential		
C.H.I. Drawing: Z8-16-02303		
page 4 of 5		

Details on some views may have been omitted for clarity.



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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page 5 of 5		