



Supplemental Instructions

Pan 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 supplemental 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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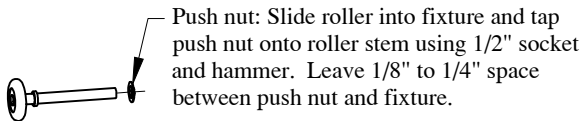
**For Use With Drawing Number
Z4i-18-01509**

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 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 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 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 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 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 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 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 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 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 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

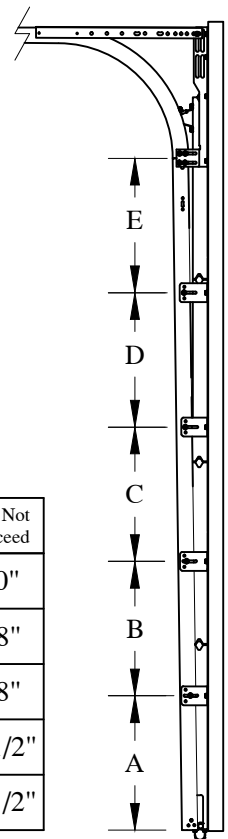
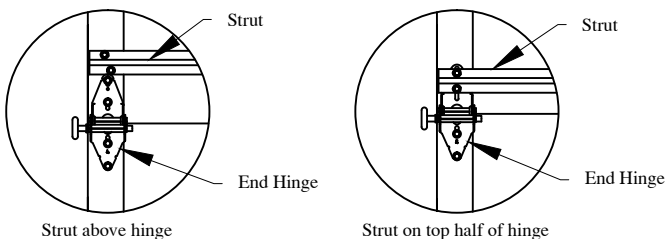


Track Bracket Spacing

Track bracket spacing shown for doors up to four sections high. Additional door sections may be added for maximum door height depicted on 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).

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".

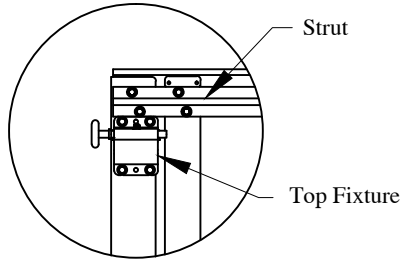


	Do Not Exceed
E	10"
D	28"
C	28"
B	6-1/2"
A	3-1/2"

+/-3" tolerance

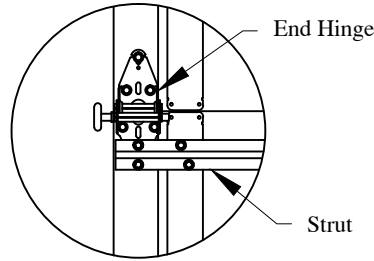
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Strut Placement Detail



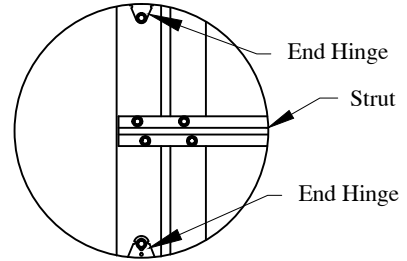
Strut above top fixture

Detail A



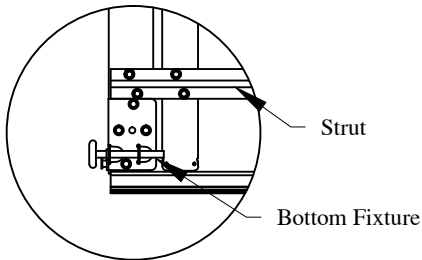
Strut on bottom half of hinge

Detail B



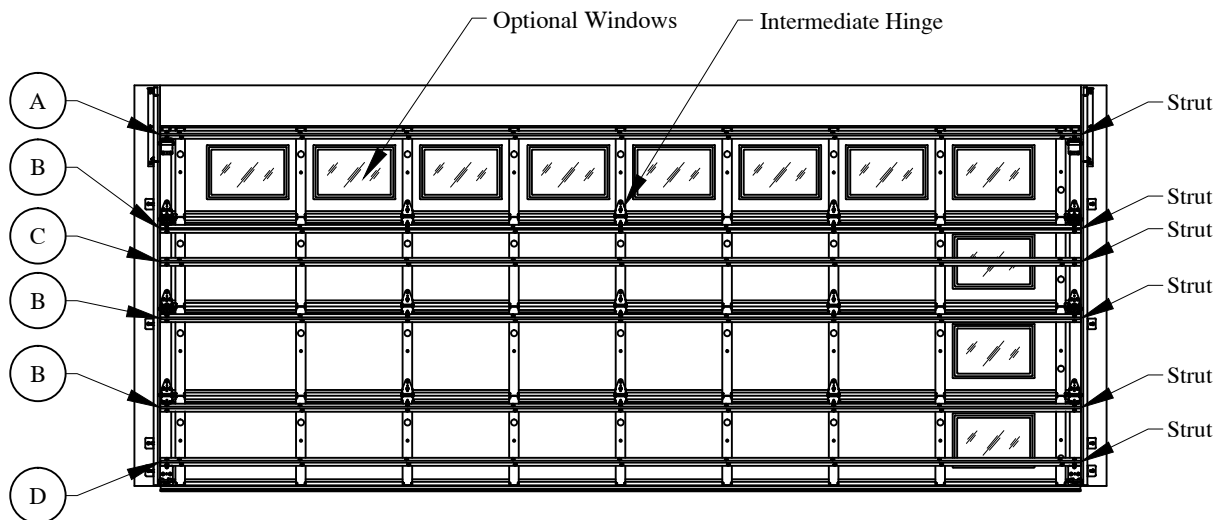
Strut in center of section

Detail C



Strut above bottom fixture

Detail D

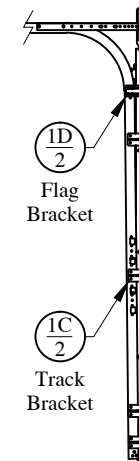
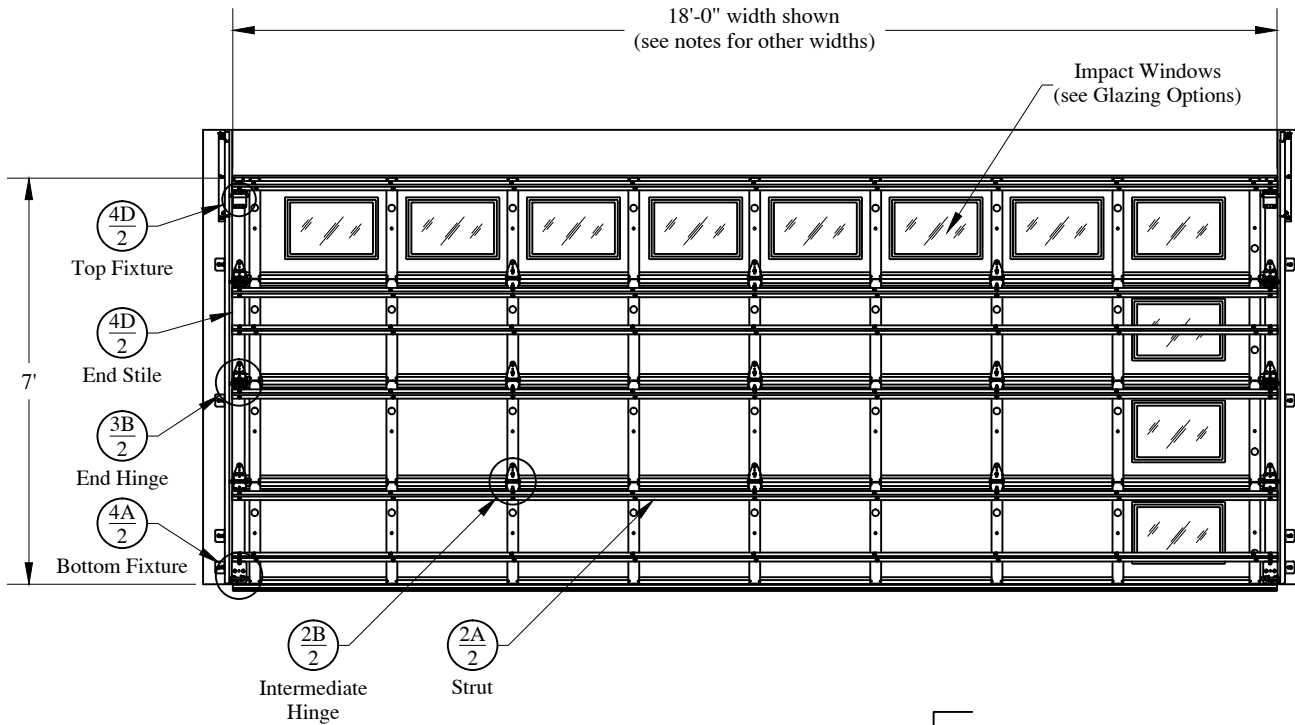


6 Struts

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)

18'-0" width shown
 (see notes for other widths)

Impact Windows
 (see Glazing Options)



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

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 and 115

Maximum door height: 20'-00"

Glazing and door have been tested for windborne debris.

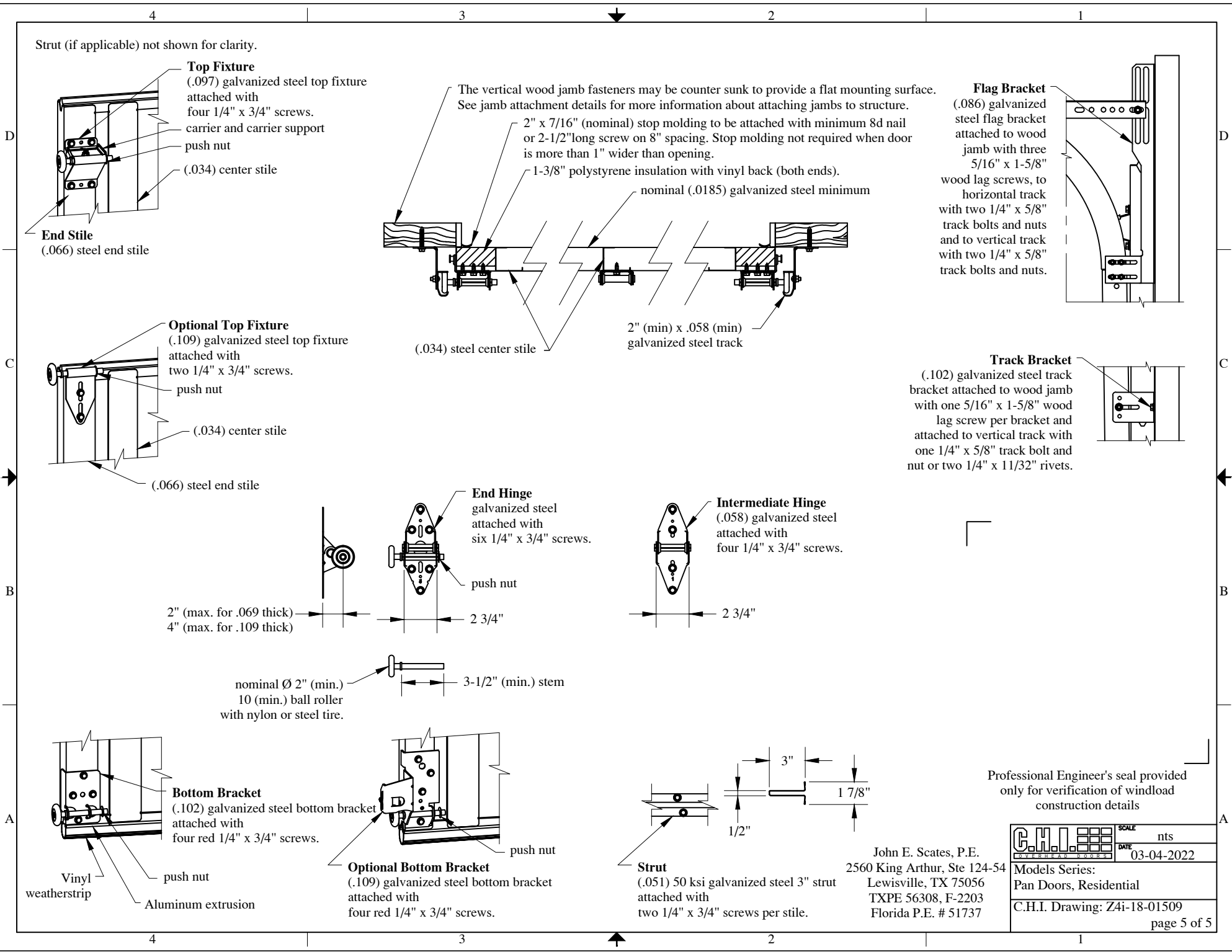
Width	Design Pressure (PSF)	Stile Qty.
18'-00"	+22.2 / -24.7	7
16'-01"	+22.2 / -24.7	7

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 construction details

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G.H.I.	SCALE	nts
	DATE	03-04-2022
Models Series: Pan Doors, Residential		
C.H.I. Drawing: Z4i-18-01509		
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Strut (if applicable) not shown for clarity.



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

(.066) 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 8" spacing. Stop molding not required when door is more than 1" wider than opening.

1-3/8" polystyrene insulation with vinyl back (both ends).

nominal (.0185) galvanized steel minimum

(.034) steel center stile

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

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

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

2 3/4"

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

Vinyl weatherstrip
 Aluminum extrusion

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

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

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