



Supplemental Instructions Overlay Carriage House Doors

 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.

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

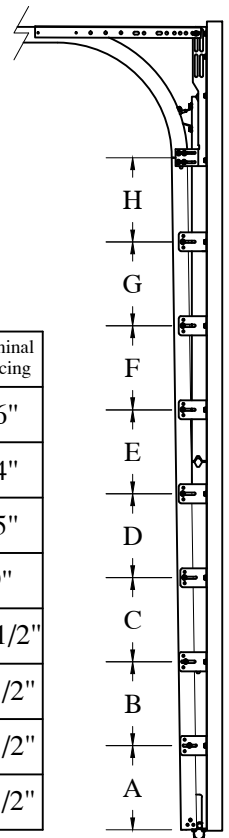
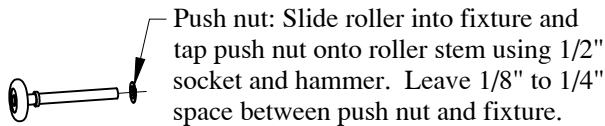
**For Use With Drawing Number
Z7i-20-04506**

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"
10	N/A	N/A	N/A	N/A	N/A	N/A	1 at Detail A
9	N/A	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail A
8	N/A	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
7	N/A	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
6	N/A	N/A	1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
5	N/A	1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
4	1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
3	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
2	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A	1 at Detail B 1 at Detail A
1	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A

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

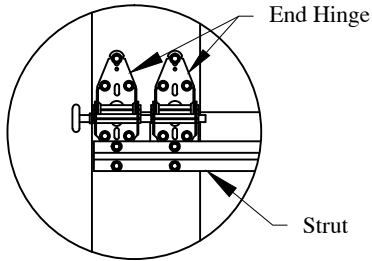
Track bracket spacing shown for doors up to four sections high. Additional door sections may be added for maximum door height depicted on line drawing. Track brackets must be added (per track) for each section and spaced at a distance not greater than the corresponding section height (see line drawing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

	Nominal Spacing
H	16"
G	14"
F	15"
E	9"
D	14-1/2"
C	9-1/2"
B	6-1/2"
A	3-1/2"

+/- 3" tolerance

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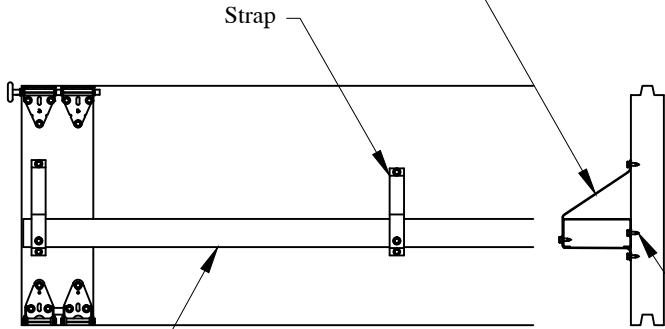
Strut Placement



Strut on bottom half of hinge

Detail B

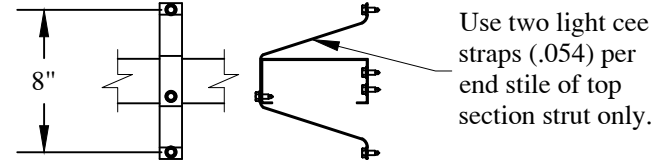
Strap attached to cee strut and section with three 1/4" x 3/4" screws



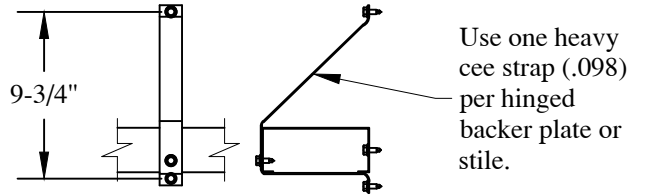
Cee strut

Detail A

Cee Strut Attachment Detail

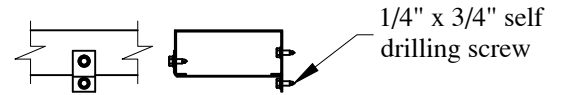


Use two light cee straps (.054) per end stile of top section strut only.



Use one heavy cee strap (.098) per hinged backer plate or stile.

(.073) 50ksi galvanized steel 6" cee strut.



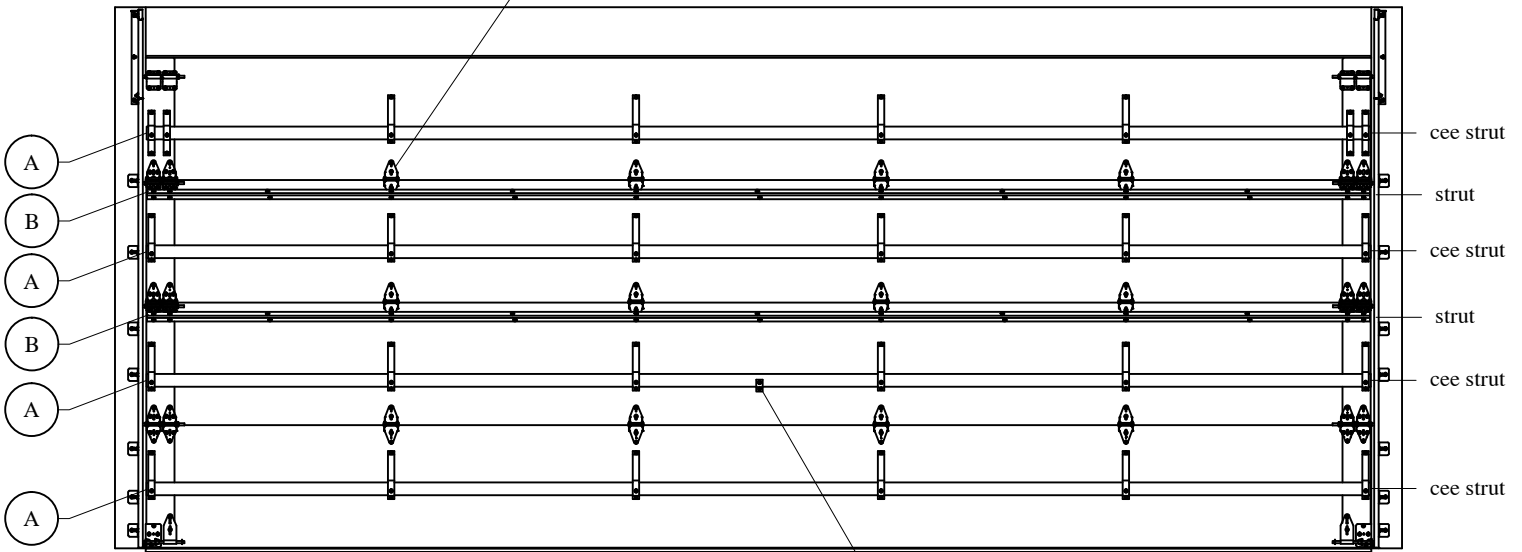
1/4" x 3/4" self drilling screw

One leg brace (.098) on #2 section on the center backer plate and fastened with two 1/4" x 3/4" screws.

Use two 1/4" x 1" jambteks per end stile only.

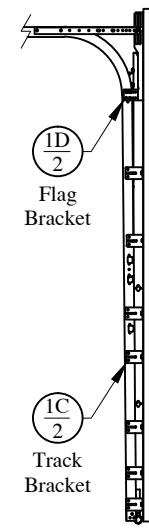
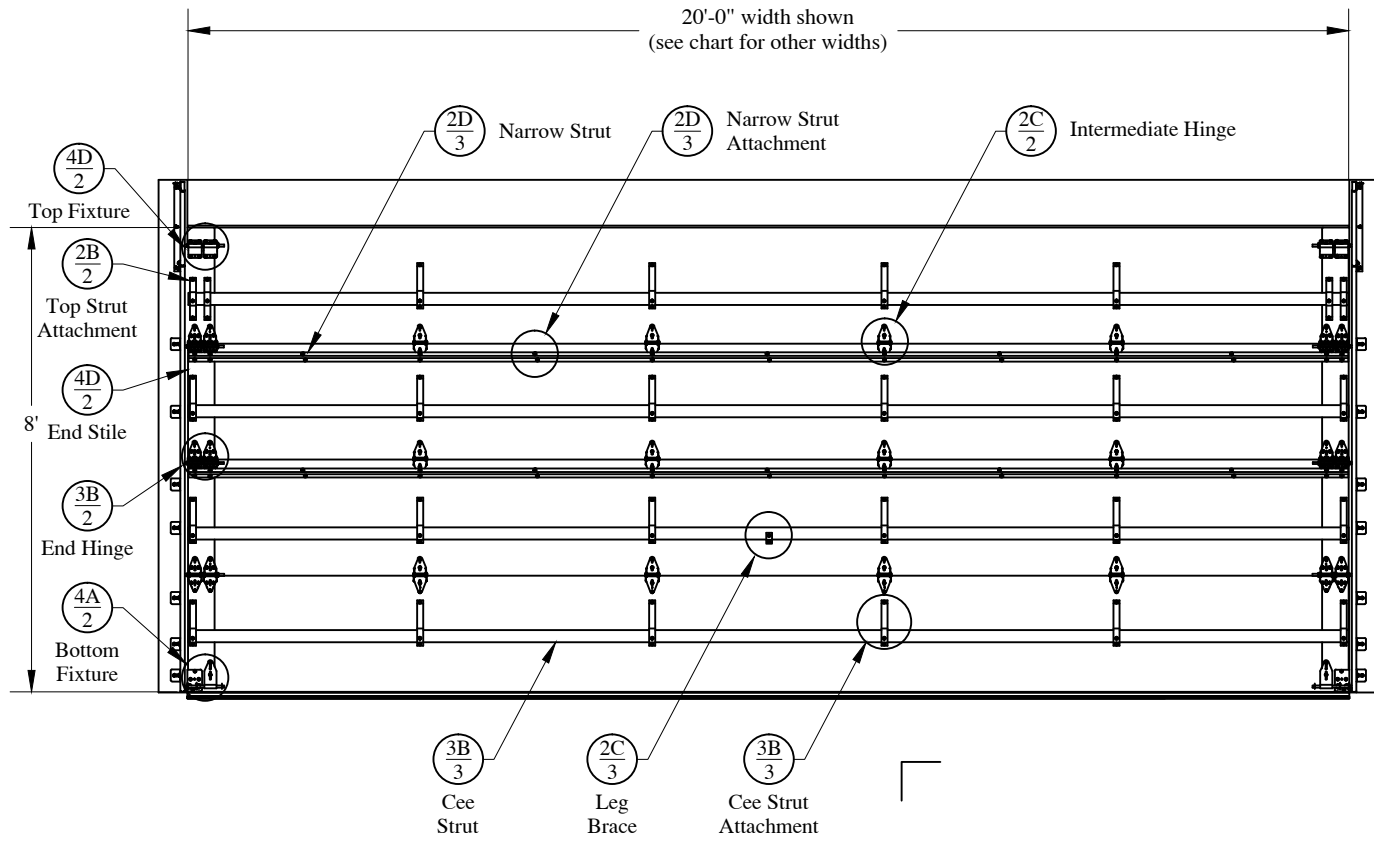
Cee strut attached to section with one 1/4" x 3/4" screw per intermediate backer plate.

Intermediate hinge



6 struts total

Glazing Options: No Glazing Options are available.



door height	section quantity	strut quantity	trk brkt per side
6'-0" to 8'-0"	4	4/2	7
8'-3" to 10'-0"	5	5/3	9
10'-3" to 12'-0"	6	6/4	11
12'-3" to 14'-0"	7	7/5	12
14'-3" to 16'-0"	8	8/6	14
16'-3" to 18'-0"	9	9/7	16
18'-3" to 20'-0"	10	10/8	18

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"
Door has been tested for windborne debris.

Width	Design Pressure (PSF)	Stile Qty.
20'-00"	+34.1 / -38.0	9
18'-00"	+41.3 / -46.0	7

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	SCALE	nts
	DATE	09-04-2020
Models Series: Overlay Carriage House		
C.H.I. Drawing: Z7i-20-04506		
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Details on some views may have been omitted for clarity.

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 .080 (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.

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

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

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

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.

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

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.

Vinyl weatherstrip

Aluminum extrusion

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.

Leg Brace

One (.098) leg brace on #2 section on the center stile or backer plate and fastened with two 1/4" x 3/4" screws.

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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