





## Supplemental Instructions

### Rib Doors: Commercial

|  |   |
|--|---|
|  <b>CAUTION</b> | <p><b>Higher wind pressures and larger doors require additional reinforcement.</b></p> <p><b>Premature failure of door system may result from improper application.</b></p> <p><b>See chart in lower left corner of drawing sheet one for the approved wind pressures and door sizes.</b></p> |
|--|---|

|  |  |
|--|--|
|  <b>WARNING</b> | <p><b>These supplemental instructions do not contain basic door installation steps and related safety information.</b></p> <p><b>Failure to follow basic installation steps and related safety information may result in injury or death.</b></p> <p><b>Door installers must follow a primary instruction manual for basic door installation steps and related safety information.</b></p> |
|--|--|

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.

John E. Scates, P.E.  
 2560 King Arthur, Ste 124-54  
 Lewisville, Texas 75056  
 TXPE 56308, F-2203  
 Florida P.E. # 51737

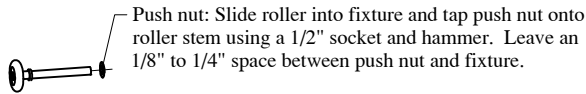
# For Use With Drawing Number Z7i-18-61517

## 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<br>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<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 9              | N/A                            | N/A                            | N/A                            | N/A                            | N/A                            | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 8              | N/A                            | N/A                            | N/A                            | N/A                            | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 7              | N/A                            | N/A                            | N/A                            | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 6              | N/A                            | N/A                            | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 5              | N/A                            | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 4              | 1 at Detail A                  | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C |
| 3              | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>1 at Detail C | 1 at Detail B<br>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

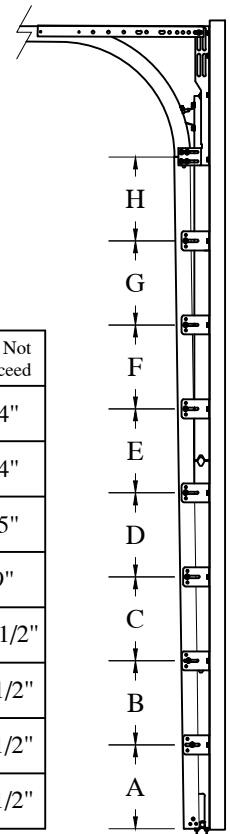


### Track Bracket Spacing

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).

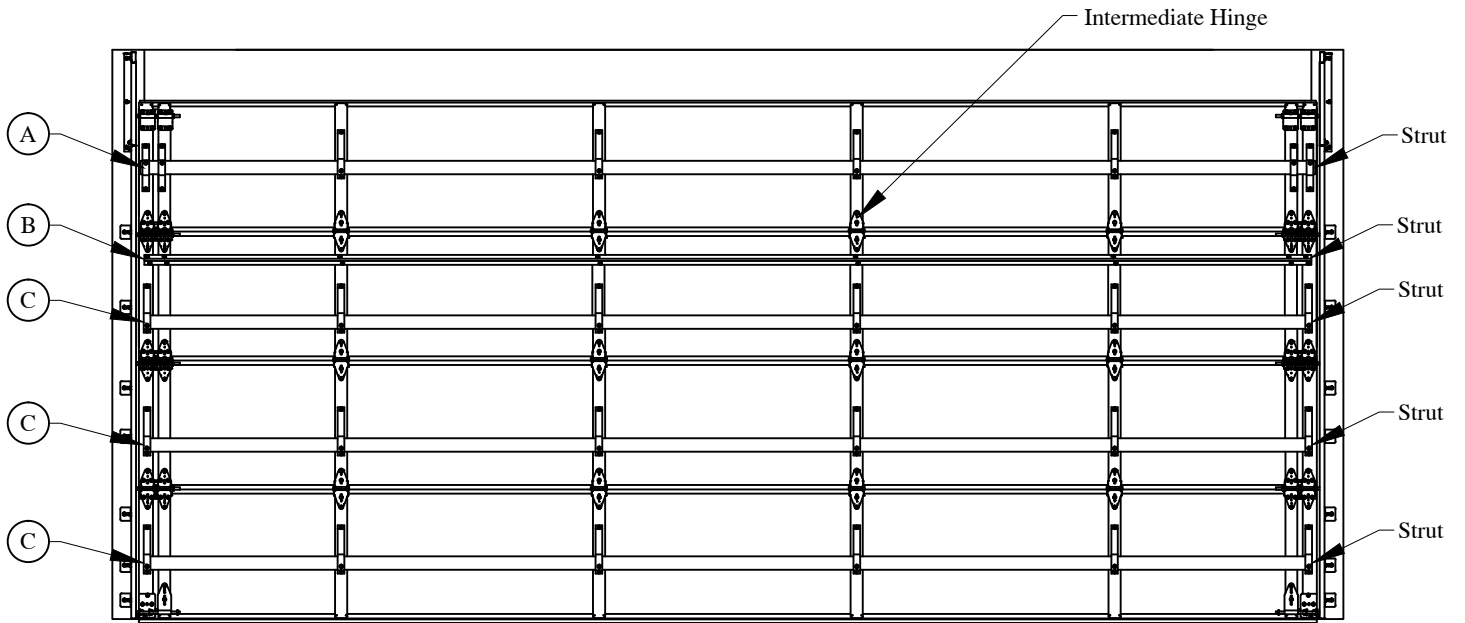
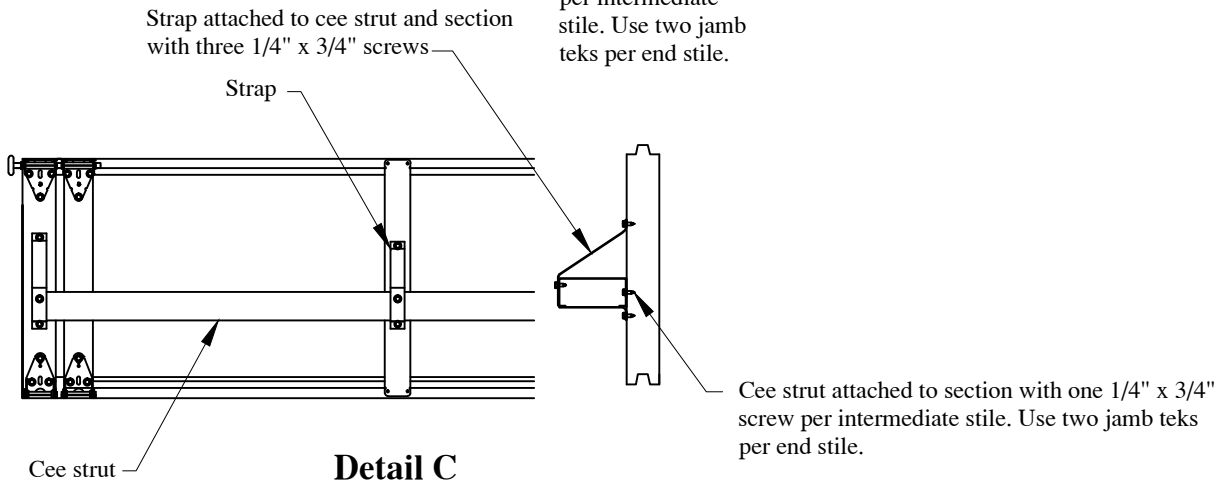
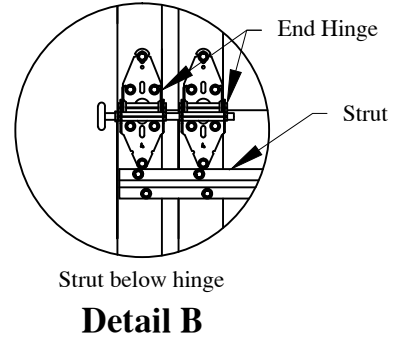
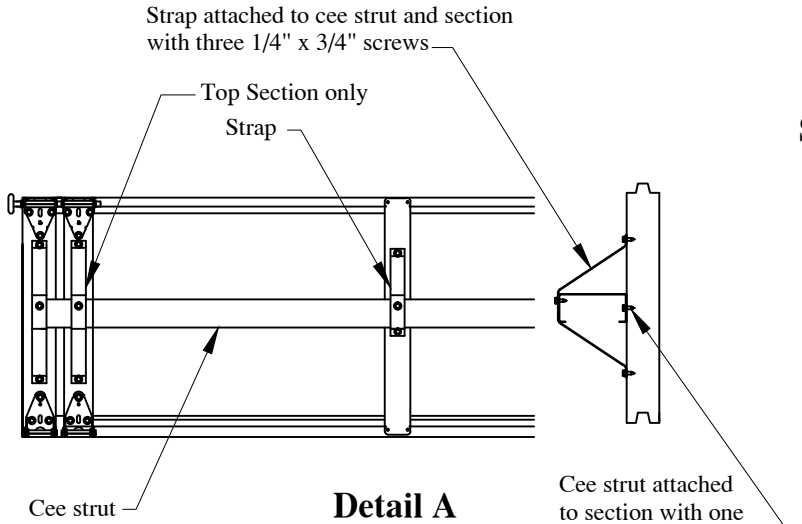
|   | Do Not Exceed |
|---|---------------|
| H | 14"           |
| G | 14"           |
| F | 15"           |
| E | 9"            |
| D | 14-1/2"       |
| C | 9-1/2"        |
| B | 6-1/2"        |
| A | 3-1/2"        |

+/-3" tolerance



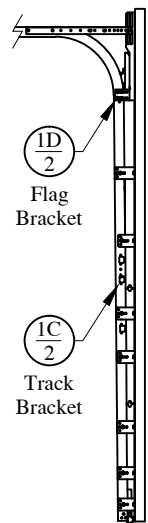
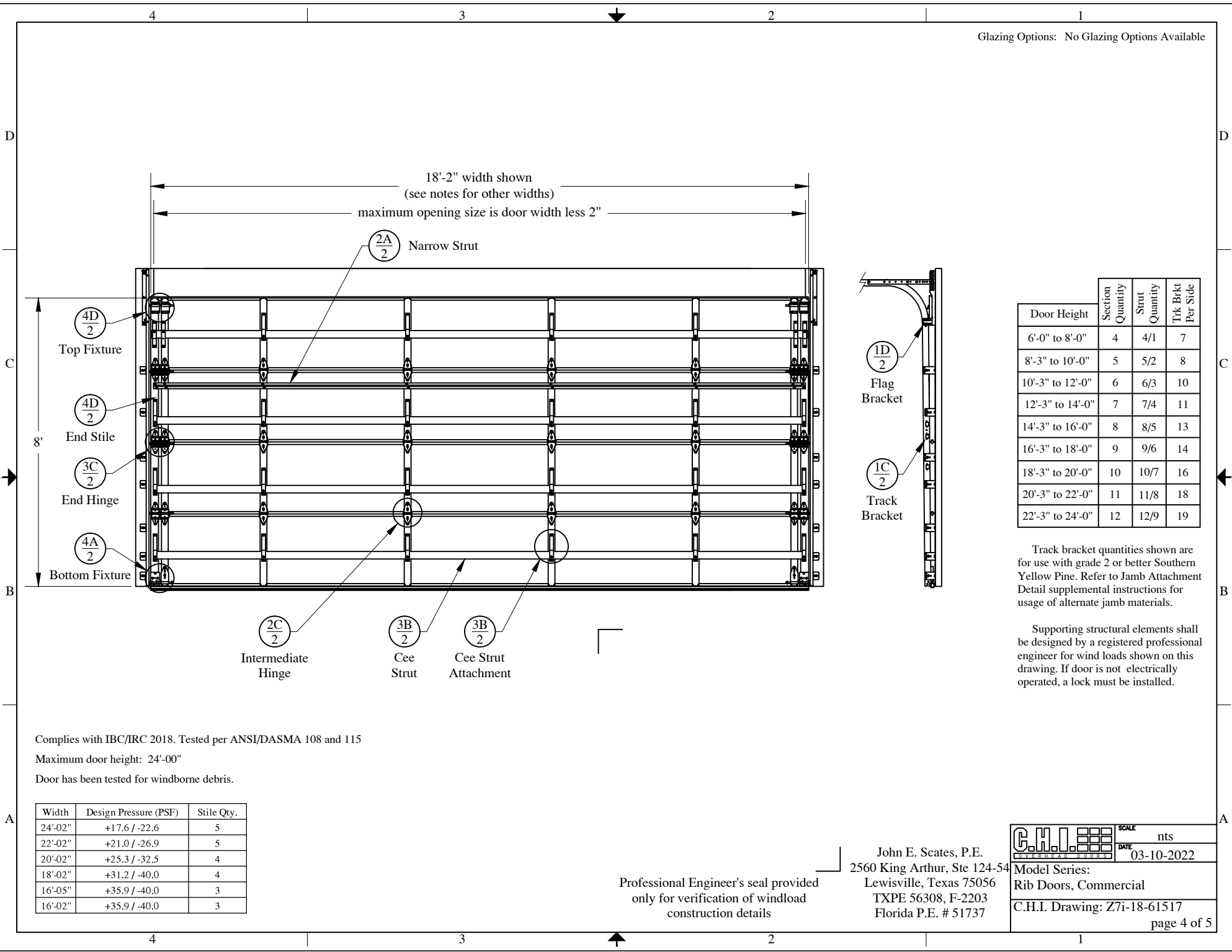
**For Use With Drawing Number  
Z7i-18-61517**

**Strut Attachment Detail**



5 Struts

Glazing Options: No Glazing Options Available



| 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.

Complies with IBC/IRC 2018. Tested per ANSI/DASMA 108 and 115  
 Maximum door height: 24'-00"  
 Door has been tested for windborne debris.

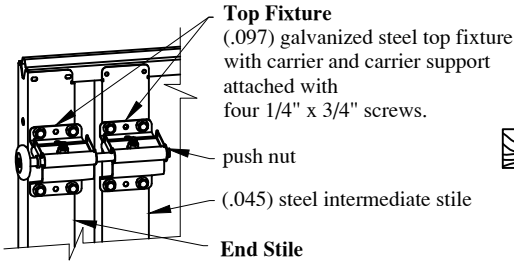
| Width   | Design Pressure (PSF) | Stile Qty. |
|---------|-----------------------|------------|
| 24'-02" | +17.6 / -22.6         | 5          |
| 22'-02" | +21.0 / -26.9         | 5          |
| 20'-02" | +25.3 / -32.5         | 4          |
| 18'-02" | +31.2 / -40.0         | 4          |
| 16'-05"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

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

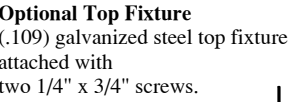
John E. Scates, P.E.  
 2560 King Arthur, Ste 124-54  
 Lewisville, Texas 75056  
 TXPE 56308, F-2203  
 Florida P.E. # 51737

|  |       |            |
|--|-------|------------|
|  | SCALE | nts        |
|  | DATE  | 03-10-2022 |
| Model Series:<br>Rib Doors, Commercial |       |            |
| C.H.I. Drawing: Z7i-18-61517           |       |            |
| page 4 of 5                            |       |            |

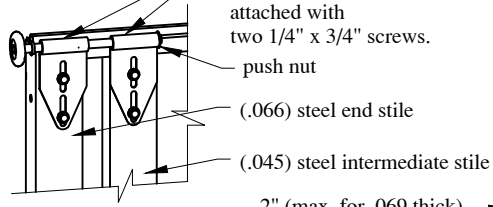
Details on some views may have been omitted for clarity.



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



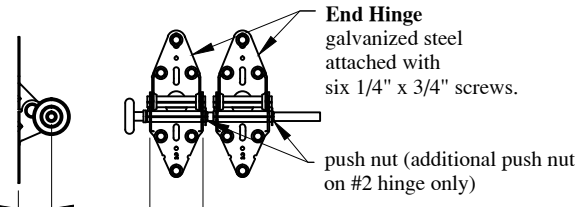
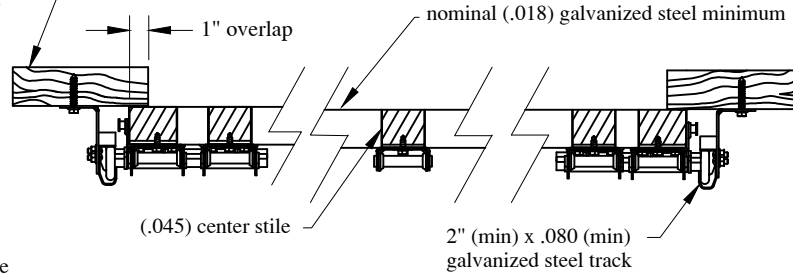
**End Stile**  
(.066) steel end stile



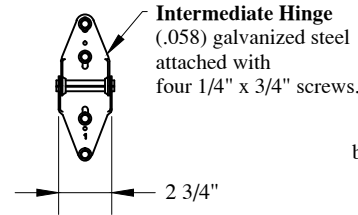
**Optional Top Fixture**  
(.109) galvanized steel top fixture attached with two 1/4" x 3/4" screws.

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.

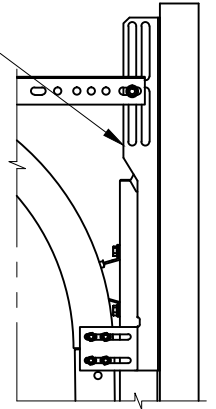


**End Hinge**  
galvanized steel attached with six 1/4" x 3/4" screws.

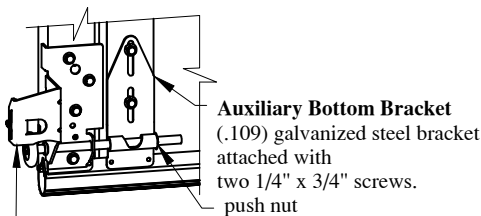
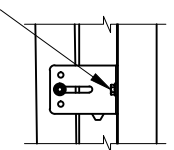


**Intermediate Hinge**  
(.058) galvanized steel attached with four 1/4" x 3/4" screws.

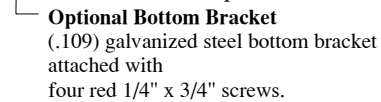
**Flag Bracket**  
(.086) galvanized steel flag bracket attached to wood jamb with three 5/16" x 1-5/8" wood lag screws, to horizontal track with two 1/4" x 5/8" track bolts and nuts and to vertical track with two 1/4" x 5/8" track bolts and nuts.



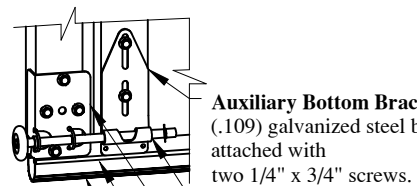
**Track Bracket**  
(.102) galvanized steel track bracket attached to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket and attached to vertical track with one 1/4" x 5/8" track bolt and nut or two 1/4" x 11/32" rivets.



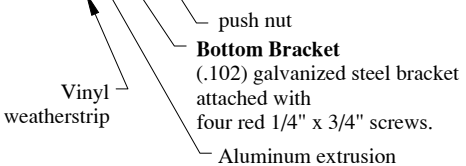
**Auxiliary Bottom Bracket**  
(.109) galvanized steel bracket attached with two 1/4" x 3/4" screws.



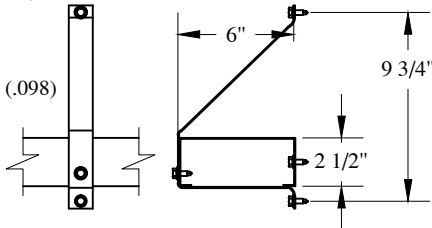
**Optional Bottom Bracket**  
(.109) galvanized steel bottom bracket attached with four red 1/4" x 3/4" screws.



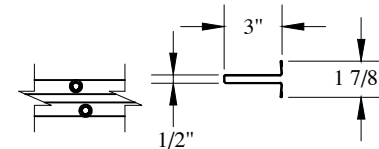
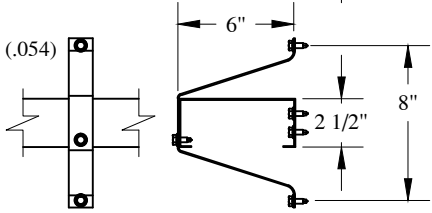
**Auxiliary Bottom Bracket**  
(.109) galvanized steel bracket attached with two 1/4" x 3/4" screws.



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



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

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

John E. Scates, P.E.  
2560 King Arthur, Ste 124-54  
Lewisville, Texas 75056  
TXPE 56308, F-2203  
Florida P.E. # 51737

|  |       |            |
|--|-------|------------|
| C.H.I.                                 | SCALE | nts        |
|  | DATE  | 03-10-2022 |
| Model Series:<br>Rib Doors, Commercial |       |            |
| C.H.I. Drawing: Z7i-18-61517           |       |            |
| page 5 of 5                            |       |            |