# Supplemental Instructions

## Impact Rated Residential Sandwich or Urethane Doors

| | |
|---|---|
| **⚠ CAUTION** | **Higher wind pressures and larger doors require additional reinforcement.**<br>**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.** |

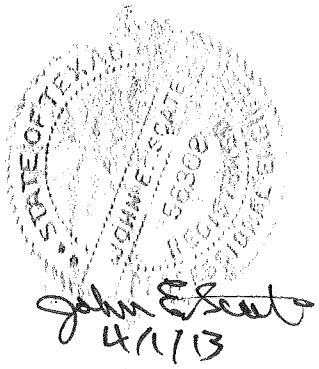
| | |
|---|---|
| **⚠ WARNING** | **These supplemental instructions do not contain basic door installation steps and related safety information.**<br>**Failure to follow basic installation steps and related safety information may result in injury or death.**<br>**Door installers must follow a primary 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.

The percentages charted below reduce exposure B wind speeds from the lower left corner of page one of each drawing to approximate mph for mean roof heights H and exposures B, C, & D.

Building mean roof height

| H | B | C | D |
|---|---|---|---|
| 15' | 100% | 90% | 82% |
| 20' | 100% | 88% | 80% |
| 25' | 100% | 86% | 78% |
| 30' | 100% | 84% | 77% |
| 35' | 97% | 83% | 76% |
| 40' | 95% | 81% | 75% |
| 45' | 94% | 80% | 74% |
| 50' | 92% | 80% | 74% |
| 55' | 91% | 79% | 73% |
| 60' | 90% | 78% | 73% |

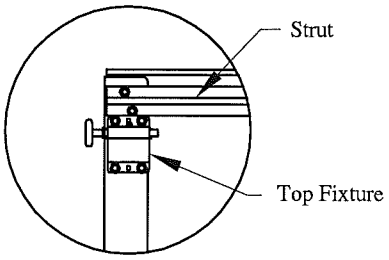


John E. Scates, P.E.
3121 Fairgate Drive
Carrollton, Texas 75007
Florida P.E. # 51737
TXPE 56308, F-2203

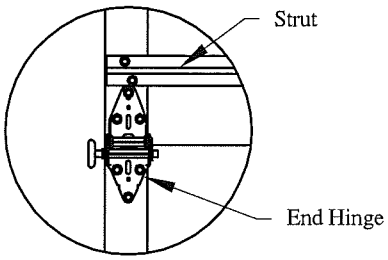
Professional Engineer's seal provided only for verification of windload construction details

Copyright 2013 C.H.I. Overhead Doors

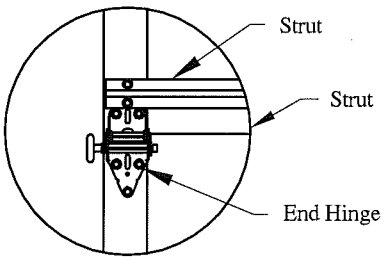
## Strut placement options
## (hinges shown with six screws, see drawing for actual screw quantity requirements)
## (single hinges shown, see drawing for double end hinge requirements)



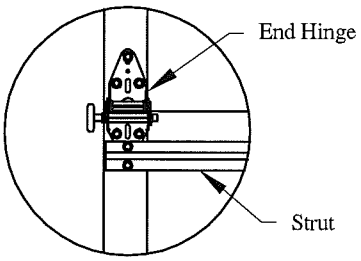

**Strut above top fixture**



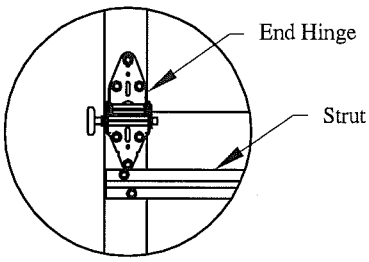

**Strut above hinge**



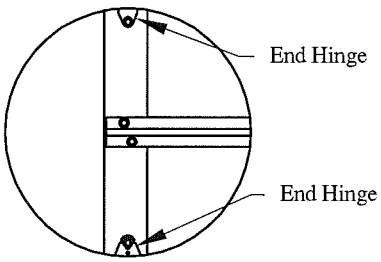

**Strut on top half of hinge**



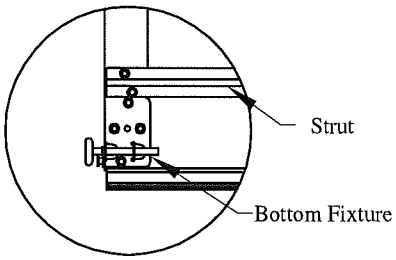

**Strut on bottom half of hinge**



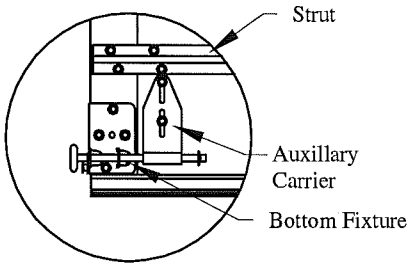

**Strut below hinge**




**Strut in center of section**




**Strut above bottom fixture**




**Strut above auxillary carrier**

A locking system must be installed if the door is not electrically operated.

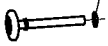
See drawing for stop molding requirements, on doors not more than 1" wider than opening.
When using stop molding, secure molding with minimum 8d nails or 2-1/2" long screws.

The distance from the bottom of the track to the first track bracket should not exceed 4 inches.
The distance from the bottom of the track to the second track bracket should not exceed 10 inches.
Locate track brackets as required to avoid other fasteners or defects in wood.
Add track brackets as required maintaining equal spacing until the specified quantity is achieved.
The distance between track brackets should not exceed 28 +/-1 inches.
The distance from the top track bracket to the flag angle should not exceed 38 +/-1 inches.

## Push nut detail
## (Push nut shown, see drawing for push nut requirements)

**Push Nut Detail** (use on all rollers, if depicted on drawing)

use 3/8" I. D. on bottom fixture roller stem
use 7/16" I. D. on end hinge and top fixture roller stems



Push nut: Slide roller into fixture and tap push nut onto roller stem using a 1/2" socket and hammer. Leave an 1/8" to 1/4" space between push nut and fixture.

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

John E. Scates, P.E.
3121 Fairgate Drive
Carrollton, Texas 75007
Florida P.E. # 51737
TXPE 56308, F-2203

Copyright 2013 C.H.I. Overhead Doors