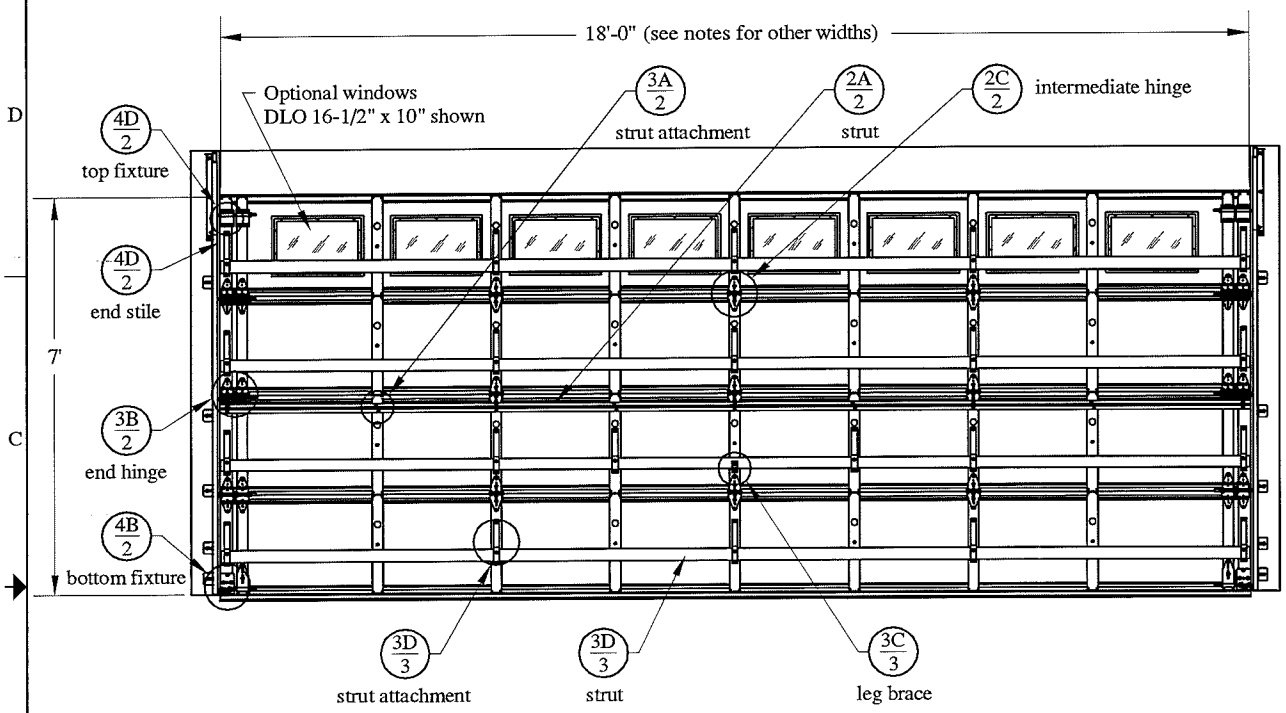


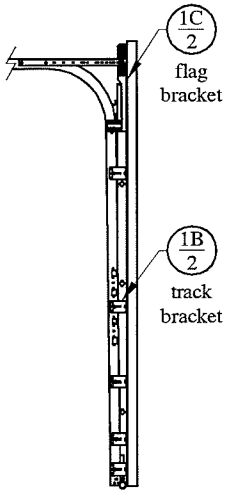


Window Options :
Max daylight opening 16-1/2" x 10"
1/8" DSB
1/4" Tempered Glass
7/16" Insulated Glass
7/16" Tempered Insulated Glass

| Door Height | Section Quantity | Cee Strut Quantity | Std. Strut Quantity | Trk Brkt Per Side |
|---|---|---|---|---|
| 6'-6" to 7'-0" | 4 | 4 | 1 | 5 |
| 7'-6" to 8'-0" | 5 | 5 | 2 | 6 |
| 8'-3" to 8'-9" | 5 | 5 | 2 | 7 |
| 9'-0" to 10'-6" | 6 | 6 | 3 | 9 |
| 10'-9" to 12'-3" | 7 | 7 | 4 | 11 |
| 12'-6" to 14'-0" | 8 | 8 | 5 | 13 |
| 14'-3" to 15'-9" | 9 | 9 | 6 | 15 |
| 16'-0" to 17'-6" | 10 | 10 | 7 | 17 |
| 17'-9" to 19'-3" | 11 | 11 | 8 | 19 |
| 19'-6" to 20'-0" | 12 | 12 | 9 | 21 |

Track bracket quantities shown are for use with grade 2 or better southern pine jambs. When using softer wood species like spruce-pine-fir (SPF) use the quantity of track brackets specified in the chart plus two track brackets per side.

Supplemental Instructions contain details for doors up to 20'-0" high. These are required in addition to this drawing for installation. Always use supplemental instructions in addition to this drawing during door installation.

This door has been evaluated in accordance with ASTM E 330-02 and ANSI/DASMA 108-02 and 108-05. Per ASCE 7-02 & 7-05 as referenced by 2006 IBC 1609 and 2006 IRC 301,

Design Pressures (DP) typically meet or exceed the requirements for the following wind speeds. These wind speeds are for 7' high doors.

| Width | Design Pressure | Exposure -B- | Exposure -C- | Windows | Center Stiles |
|---|---|---|---|---|---|
| 22'-00" | 28.2 (psf) / - 31.4 (psf) | 137 (mph) | 116 (mph) | YES | 9 |
| 21'-00" | 30.9 (psf) / - 34.5 (psf) | 144 (mph) | 121 (mph) | YES | 9 |
| 20'-06" | 32.5 (psf) / - 36.2 (psf) | 147 (mph) | 124 (mph) | YES | 9 |
| 20'-00" | 34.1 (psf) / - 38.0 (psf) | 151 (mph) | 127 (mph) | YES | 9 |
| 19'-06" | 35.9 (psf) / - 40.0 (psf) | 155 (mph) | 131 (mph) | YES | 9 |
| 19'-00" | 37.8 (psf) / - 42.1 (psf) | 159 (mph) | 134 (mph) | YES | 9 |
| 18'-06" | 39.9 (psf) / - 44.4 (psf) | 163 (mph) | 137 (mph) | YES | 9 |
| 18'-00" | 42.1 (psf) / - 46.9 (psf) | 167 (mph) | 141 (mph) | YES | 7 |
| 17'-06" | 43.3 (psf) / - 48.2 (psf) | 169 (mph) | 143 (mph) | YES | 7 |
| 17'-00" | 44.6 (psf) / - 49.7 (psf) | 171 (mph) | 145 (mph) | YES | 7 |
| 16'-00" | 47.4 (psf) / - 52.8 (psf) | 176 (mph) | 149 (mph) | YES | 7 |
| 15'-00" | 50.5 (psf) / - 56.3 (psf) | 182 (mph) | 153 (mph) | YES | 6 |

Center stile quantity is minimum per section.

Supporting structural elements to be designed by registered professional engineer for specified wind loads. If door is not electrically operated, a lock must be installed.
Maximum door height: 20'-0"
Maximum section height: 21"

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STATE OF TEXAS
JOHN E. SCATES
56308
12/20/12

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

C.H.I. OVERHEAD DOORS
SCALE nts
DATE 12-03-2012

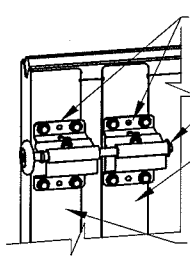
Models: 2240/41, 2250/51, 4240/41, 4250/51, 5240/41, 5250/51

50.5 (psf) / - 56.3 (psf) at 15'-00" through
28.2 (psf) / - 31.4 (psf) at 22'-00"

C.H.I. Drawing: TZ9-18-01313

Strut (if applicable) not shown for clarity.

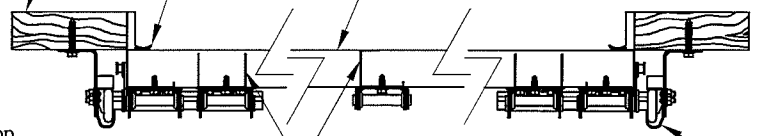
Details on some views may have been omitted for clarity.




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.

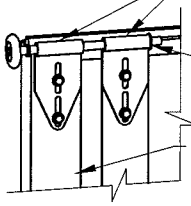
2" x 7/16" (nominal) stop molding to be secured with minimum 8d nail or 2-1/2" long screw on 5" spacing. Stop molding not required when door is more than 1" wider than opening.

nominal .0185 galvanized steel minimum

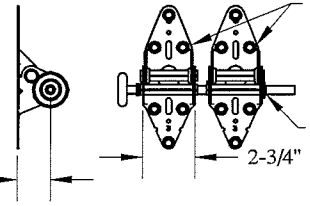


(.034) center stile manufactured by C.H.I.

2" (min) x .069 (min) galvanized steel track




Optional low head room top bracket



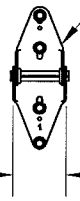
2" (max. for .069 thick)
4" (max. for .109 thick)



**End Hinge**
galvanized steel fastened to section with six 1/4" x 3/4" screws.

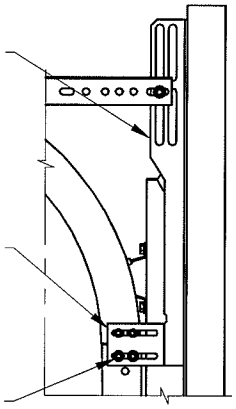
push nut

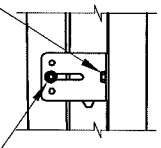
2-3/4"

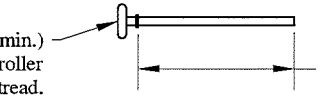


**Intermediate Hinge**
(.058) galvanized steel fastened to section with four 1/4" x 3/4" screws.

2-3/4"

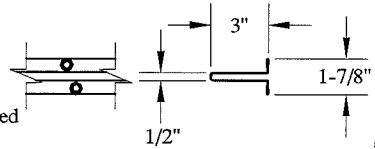


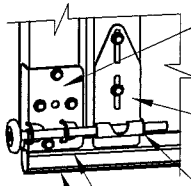



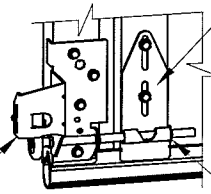
nominal Ø 2" (min.) 10 (min.) ball roller with nylon or steel tread.

9" (min.) stem




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




(.109) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

Optional low head room bottom bracket

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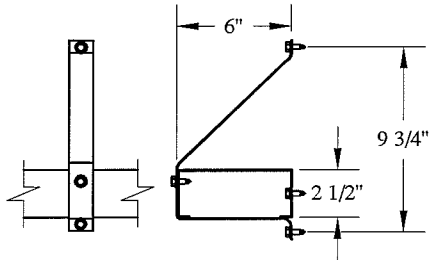
C.H.I. OVERHEAD DOORS

| | |
|---|---|
| SCALE | nts |
| DATE | 12-03-2012 |

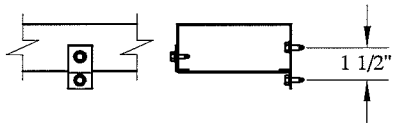
Models: 2240/41, 2250/51, 4240/41, 4250/51, 5240/41, 5250/51

50.5 (psf) / - 56.3 (psf) at 15'-00" through 28.2 (psf) / - 31.4 (psf) at 22'-00"

C.H.I. Drawing: TZ9-18-01313




(.055) 50 ksi galvanized steel 6" Cee Strut attached with four 1/4" x 3/4"screws and one (.113) strap. Six on #2 section and five on #1, #3 and #4 sections. One additional self tapping screw is used on each end stile.




One (.113) leg brace on #2 section on the center stile and fastened with two 1/4" x 3/4" screws.

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PROFESSIONAL ENGINEER

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C.H.I. OVERHEAD DOORS

| | |
|---|---|
| SCALE | nts |
| DATE | 12-03-2012 |

Models: 2240/41, 2250/51, 4240/41, 4250/51, 5240/41, 5250/51

50.5 (psf) / - 56.3 (psf) at 15'-00" through
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C.H.I. Drawing: TZ9-18-01313