

Window options:
 1/8" DSB
 1/4" Tempered Glass
 7/16" Insulated Glass
 7/16" Tempered Insulated Glass

Door Height	Section Quantity	Strut Quantity	Track Brkt Per Side
6'-0" to 8'-0"	4	8	5
8'-3" to 10'-0"	5	10	7
10'-3" to 12'-0"	6	12	9
12'-3" to 14'-0"	7	14	11
14'-3" to 16'-0"	8	16	13
16'-3" to 18'-0"	9	18	15
18'-3" to 20'-0"	10	20	17
20'-3" to 22'-0"	11	22	19
22'-3" to 24'-0"	12	24	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 24'-0" high. These are required in addition to this drawing for installation. Always use supplemental instructions in addition to this drawing during door installation.

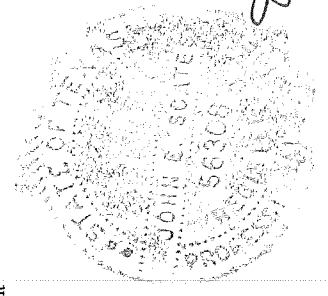
Model:	Quantity
3220, 3221, 3222, 3240	
3241, 3242, 3250, 3251, 3252	

29.5 (psf) / - 34.0 (psf) at 16'-06" through 19.8 (psf) / - 22.8 (psf) at 22'-02"

C.H.I. Drawing: TZ6-18-66313 page 1_of_2

John E. Scates
 6/15/13

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



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

18'-2" (see chart for other widths)
 maximum opening size is door width less 2"

Optional full view windows
 DLO 45-1/4" x 19" max

This door has been evaluated per ASCE 7-02 & 7-05 as referenced by 2006 IBC 1609 & 2006 IRC 301, in accordance with ANSI/DASMA 108-02, 108-05, & ASTM E330-02. Design Pressures (DP) typically meet requirements for the following exposure B wind speeds. These wind speeds are for 8' high doors on buildings with a flat roof height less than 30 feet.

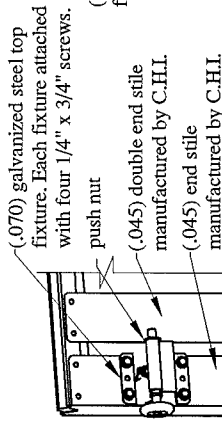
Door Width	Design Pressure		center stiles
	With	Without	
22'-02"	19.8 / - 22.8 (psf)	121 (mph)	9
21'-02"	21.7 / - 25.0 (psf)	126 (mph)	9
20'-02"	23.9 / - 27.6 (psf)	133 (mph)	9
19'-02"	26.5 / - 30.5 (psf)	139 (mph)	9
18'-02"	29.5 / - 34.0 (psf)	147 (mph)	7
16'-06"	29.5 / - 34.0 (psf)	146 (mph)	7

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.

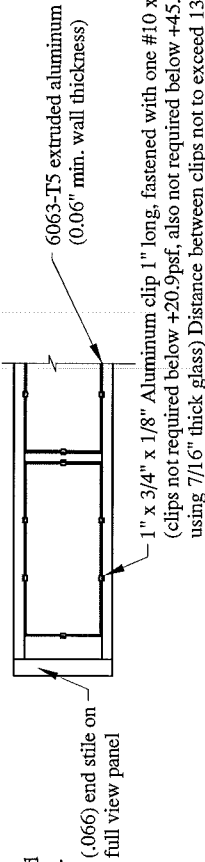
Door height: 24'-0" max
 Section height: 24" max

Center stile quantity is min. per section without windows. Sections with windows may reduce minimum center stile quantity as shown.

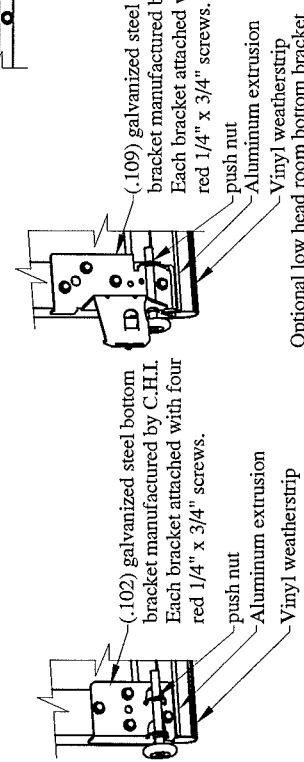
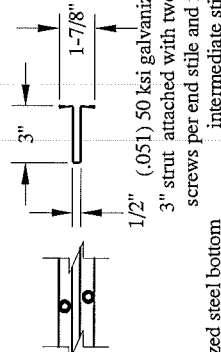
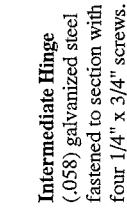
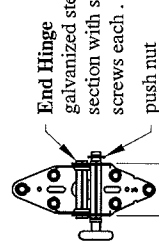
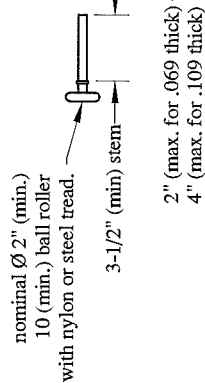
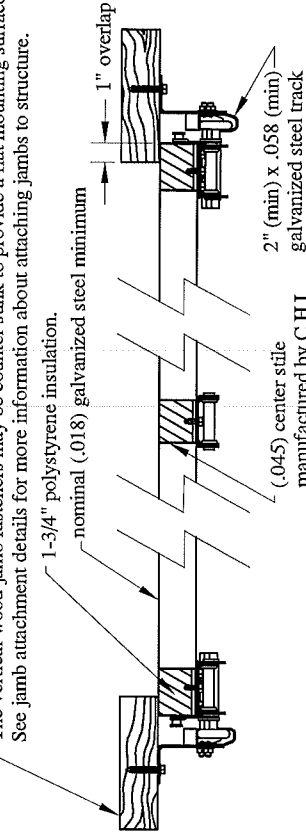
Strut (if applicable) not shown for clarity.



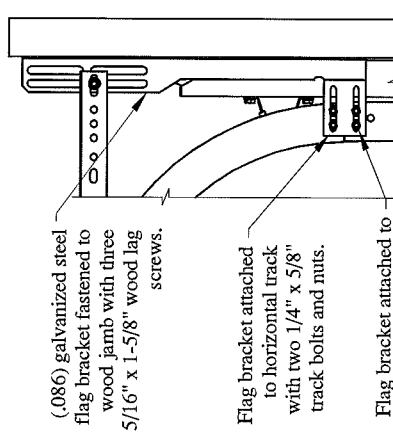
Aluminum Section Detail



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.



Details on some views may have been omitted for clarity.



(.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.

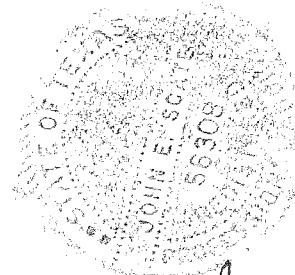
Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts. Or two 1/4" x 11/32" rivets.

(.102) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

C.H.I. ENGINEERING	SCALE	nts
	DATE	2-12-2013
Models:	3220, 3221, 3222, 3240, 3241, 3242, 3250, 3251, 3252	
	29.5 (psf) / - 34.0 (psf) at 16'-06" through 19.8 (psf) / - 22.8 (psf) at 22'-02"	
C.H.I. Drawing:		17Z6-18-66313
		page_2_of_2



John E. Scates
2/15/13

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

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