

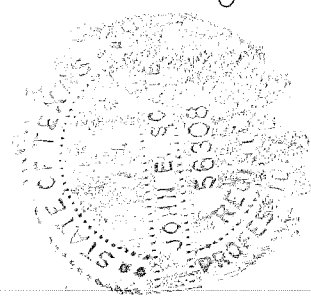
Window options (max 21.5 / - 28.1 psf.)
 1/8" DSB
 1/4" Tempered Glass
 7/16" Insulated Glass
 7/16" Tempered Insulated Glass

Door Height	Section	Quantity	Strut	Quantity	Trk Brkt Per Side
6'-0" to 8'-0"	4	6	3		
8'-3" to 10'-0"	5	8	4		
10'-3" to 12'-0"	6	10	5		
12'-3" to 14'-0"	7	12	6		
14'-3" to 16'-0"	8	14	8		
16'-3" to 18'-0"	9	16	9		
18'-3" to 20'-0"	10	18	10		
20'-3" to 22'-0"	11	20	12		
22'-3" to 24'-0"	12	22	13		

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.

	DATE	2-12-2013
	MODELS	3220, 3221, 3222, 3240, 3241, 3242, 3250, 3251, 3252
26.3 (psf) / - 34.4 (psf) at 14'-10" through 16.3 (psf) / - 21.4 (psf) at 20'-10"		
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 2/15/13
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18'-2" (see chart for other widths)
 maximum opening size is door width less 2"
 Optional windows
 DLO 21'-1/2" x 3'-5-1/16" 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 E530-02. 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	With windows		No windows		Center Stiles
	Design Pressure	Exp B	Design Pressure	Exp B	
20'-10"	16.3 / - 21.4 (psf)	110 (mph)	16.3 / - 21.4 (psf)	110 (mph)	9
20'-02"	17.4 / - 22.8 (psf)	113 (mph)	17.4 / - 22.8 (psf)	113 (mph)	9
19'-02"	19.3 / - 25.2 (psf)	119 (mph)	19.3 / - 25.2 (psf)	119 (mph)	9
18'-02"	21.5 / - 28.1 (psf)	125 (mph)	21.5 / - 28.1 (psf)	125 (mph)	7
17'-02"	21.5 / - 28.1 (psf)	125 (mph)	22.8 / - 29.7 (psf)	129 (mph)	7
16'-02"	21.5 / - 28.1 (psf)	125 (mph)	24.2 / - 31.6 (psf)	132 (mph)	7
15'-02"	21.5 / - 28.1 (psf)	124 (mph)	25.8 / - 33.7 (psf)	136 (mph)	7
14'-10"	21.5 / - 28.1 (psf)	124 (mph)	26.3 / - 34.4 (psf)	138 (mph)	7

Center stile quantity is minimum per section.

Strut (if applicable) not shown for clarity.

(.059) galvanized steel top fixture. Each fixture attached with four 1/4" x 3/4" screws.

push nut
(.045) end stile manufactured by C.H.I.

(.109) galvanized steel top fixture. Each fixture attached with two 1/4" x 3/4" screws.

push nut

Optional low head room top bracket

nominal \varnothing 2" (min.) ball roller with nylon or steel tread.

3-1/2" (min) stem

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

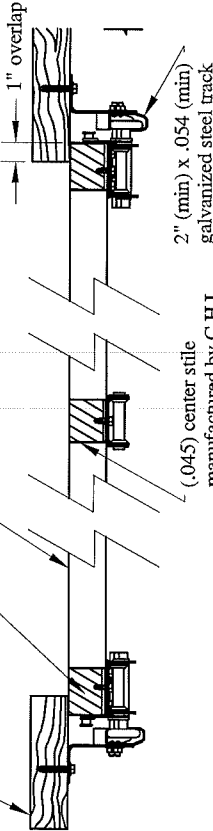
(.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

push nut
Aluminum extrusion
Vinyl weatherstrip

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.

1-3/4" polystyrene insulation.

nominal (.018) galvanized steel minimum



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

push nut

2-3/4"

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

2-3/4"

1/2" (.051) 50 ksi galvanized steel strut attached with two 1/4" x 3/4" screws per end stile and four at each intermediate stile.

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

push nut
Aluminum extrusion
Vinyl weatherstrip

Optional low head room bottom bracket

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.

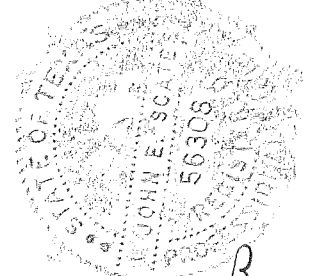
Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

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.

	SCALE	NIS
	DATE	2-12-2013
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	C.H.I. Drawing:	T74-18-61313
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