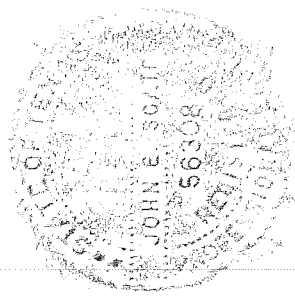


Door Height	Section	Quantity	Qty Strat	Per Side
6'-0" to 8'-0"	4	4	4	6
8'-3" to 10'-0"	5	5	5	9
10'-3" to 12'-0"	6	6	6	11
12'-3" to 14'-0"	7	7	7	13
14'-3" to 16'-0"	8	8	8	14
16'-3" to 18'-0"	9	9	9	15
18'-3" to 20'-0"	10	10	10	17
20'-3" to 22'-0"	11	11	11	19
22'-3" to 24'-0"	12	12	12	22

This door has been evaluated per ASCE 7-02 & 7-05 as referenced by 2006 IBC 1609 & 2006 IRC 301, in accordance with ANSIDASMA 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	With windows		No windows		Center Stiles
	Design Pressure	Exp B	Design Pressure	Exp B	
18'-02"	31.2 / - 40.1 (psf)	151 (mph)	31.2 / - 40.1 (psf)	151 (mph)	4
17'-02"	34.9 / - 44.9 (psf)	159 (mph)	34.9 / - 44.9 (psf)	159 (mph)	4
16'-02"	39.4 / - 50.6 (psf)	169 (mph)	39.4 / - 50.6 (psf)	169 (mph)	3
15'-02"	44.8 / - 57.5 (psf)	180 (mph)	44.8 / - 57.5 (psf)	180 (mph)	3
14'-02"	51.3 / - 65.9 (psf)	192 (mph)	51.3 / - 65.9 (psf)	192 (mph)	3
13'-02"	51.3 / - 65.9 (psf)	191 (mph)	55.2 / - 70.9 (psf)	198 (mph)	3
12'-02"	51.3 / - 65.9 (psf)	191 (mph)	59.7 / - 76.7 (psf)	206 (mph)	2
11'-02"	51.3 / - 65.9 (psf)	190 (mph)	65.1 / - 83.6 (psf)	214 (mph)	2
10'-02"	51.3 / - 65.9 (psf)	189 (mph)	71.5 / - 91.8 (psf)	224 (mph)	2

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



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

Scale: NIS
 Date: 2-12-2013

Models: 3220, 3221, 3222, 3240, 3241, 3242, 3250, 3251, 3252

71.5 (psf) / - 91.8 (psf) at 10'-02" through 31.2 (psf) / - 40.1 (psf) at 18'-02"

C.H.I. Drawing: TZ11-14-61313 page 1 of 2

Strut (if applicable) not shown for clarity.

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

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

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

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

(.045) end stile manufactured by C.H.I.
Optional low head room top bracket

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

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

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

(.109) galvanized steel auxiliary bottom bracket (DES) attached with two 1/4" x 3/4" screws.

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

Aluminum extrusion

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.

nominal (.018) galvanized steel minimum

1-3/8" polystyrene insulation with vinyl back (window section).
1-3/4" polystyrene insulation (each stile).

1" overlap

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

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

(.113) STRAP

(.113) STRAP

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

push nut

2-3/4"

9" (min) stem

(.055) 50 ksi galvanized steel 6" Cee Strut attached with one 1/4" x 3/4" self tapping screw per stile or backer plate. One (.113) 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, except section #2 having one less strap and one leg brace (as shown). Section #4 utilizes two (.113) straps per end stile. One additional self tapping screw is used on each end stile.

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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.

One (.098) leg brace on #2 section on the center stile or backer plate and fastened with two 1/4" x 3/4" screws.

	SCALE	NIS
	DATE	2-12-2013
Models:	3220, 3221, 3222, 3240, 3241, 3242, 3250, 3251, 3252	
	71.5 (psf) / - 91.8 (psf) at 10'-02" through 31.2 (psf) / - 40.1 (psf) at 18'-02"	

C.H.I. Drawing: TZ11-14-61313
page_2_of_2