

Window options (max 33.3 / - 41.6 psf)
 1/8" DSB
 1/4" Tempered Glass
 7/16" Insulated Glass
 7/16" Tempered Insulated Glass

Door Height	Section	Strut	Trk Brkt
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.

SOLE		NIS
DATE		12-19-2012
Models:	3220, 3221, 3222, 3240,	
	3241, 3242, 3250, 3251, 3252	
44.2 (psf) / - 55.3 (psf) at 12'-02" through		
21.4 (psf) / - 26.7 (psf) at 20'-02"		
C.H.I. Drawing: 1728-16-61313		
		page 1 of 2

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

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 TXPE 56308, F-2203

John E. Scates
 2/15/13

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: 24'-0" Maximum section height: 24"

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 501, Design Pressures (DP) typically meet or exceed the requirements for the following wind speeds. These wind speeds are for 8' high doors.

Width	Design Pressure	Exposure "B"	Exposure "C"	Windows	Center Stiles
20'-02"	21.4 (psf) / - 26.7 (psf)	125 (mph)	106 (mph)	YES	9
19'-02"	23.7 (psf) / - 29.6 (psf)	132 (mph)	111 (mph)	YES	9
18'-02"	26.4 (psf) / - 32.9 (psf)	139 (mph)	117 (mph)	YES	7
17'-02"	29.5 (psf) / - 36.9 (psf)	146 (mph)	124 (mph)	YES	7
16'-02"	33.3 (psf) / - 41.6 (psf)	155 (mph)	131 (mph)	YES	7
15'-02"	35.5 (psf) / - 44.3 (psf)	160 (mph)	135 (mph)	YES	7
14'-02"	38.0 (psf) / - 47.5 (psf)	165 (mph)	139 (mph)	YES	5
13'-02"	40.9 (psf) / - 51.1 (psf)	171 (mph)	144 (mph)	YES	5
12'-02"	44.2 (psf) / - 55.3 (psf)	177 (mph)	149 (mph)	YES	5

Center stile quantity is minimum per section.

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) 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.) 10 (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

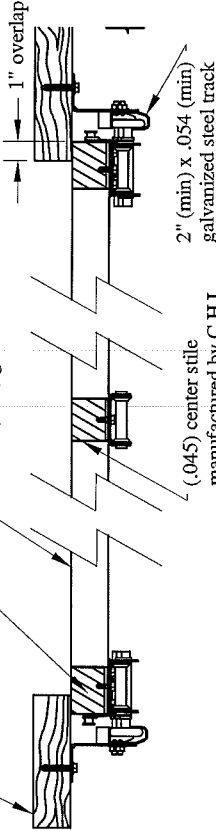
Aluminum extrusion

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



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

2" (min) x .054 (min) galvanized steel track

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"

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

1-7/8"

(.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.

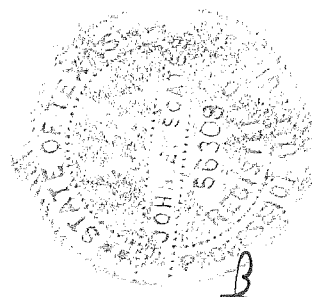
Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

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.

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