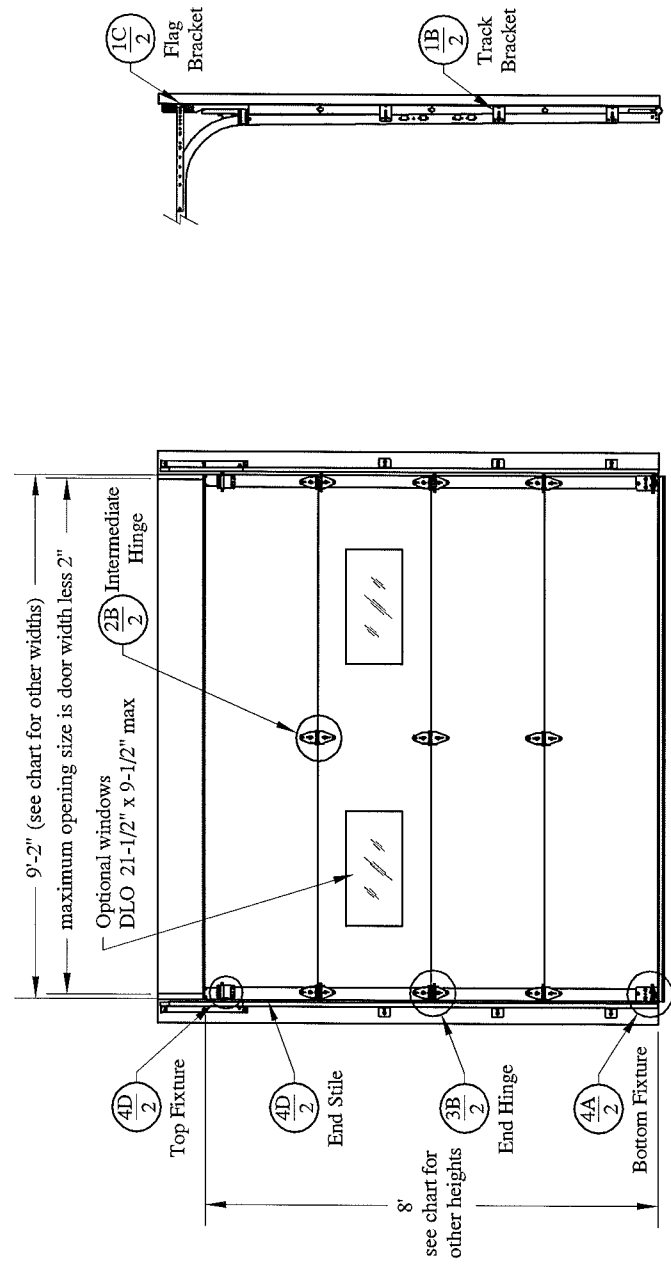


Window Options:
 1/8" DSB
 1/4" Tempered Glass
 7/16" Insulated Glass
 7/16" Tempered Insulated Glass



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

Track bracket quantities shown are for use with grade 2 or better spruce-pine-fir (SPF) or southern pine jambs.

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.

SCALE	THIS
DATE	2-18-2013
Models:	3212, 3216, 3285
	31.8 (psf) / - 35.9 (psf) at 06'-00" through
	17.5 (psf) / - 19.7 (psf) at 10'-00"
C.H.I. Drawing: TZ4-09-63313	
page 1 of 2	



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 2/22/13
 John E. Scates, P.E.
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 Carrollton, Texas 75007
 TXPE 56308, F-2203

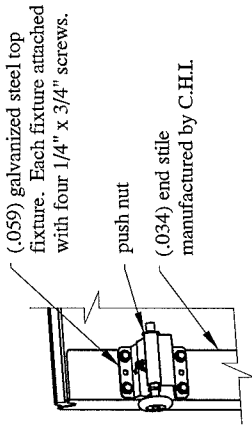
Professional Engineer's seal provided only for verification of windload construction details

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	With windows		No windows		Backer plates
	Design Pressure	Exp B	Design Pressure	Exp B	
10'-00"	17.5 / - 19.7 (psf)	110 (mph)	17.5 / - 19.7 (psf)	110 (mph)	2
09'-02"	20.8 / - 23.5 (psf)	120 (mph)	20.8 / - 23.5 (psf)	120 (mph)	1
08'-02"	20.8 / - 23.5 (psf)	120 (mph)	23.3 / - 26.4 (psf)	127 (mph)	1
07'-02"	20.8 / - 23.5 (psf)	119 (mph)	26.6 / - 30.1 (psf)	134 (mph)	1
06'-00"	20.8 / - 23.5 (psf)	118 (mph)	31.8 / - 35.9 (psf)	145 (mph)	1

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
 Backer plate quantity is minimum per section.

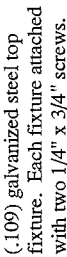
Strut (if applicable) not shown for clarity.



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

push nut

(.034) 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

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

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.

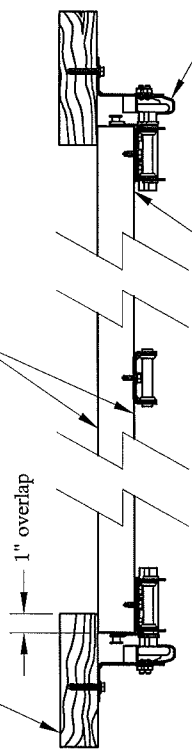
push nut

Vinyl weatherstrip

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 (.0155) galvanized steel minimum



(.023) backer plate at each hinge location.

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

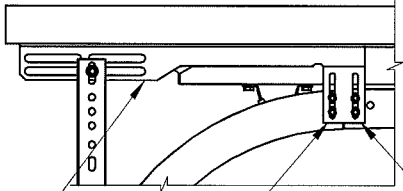
push nut

push nut

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

2-3/4"

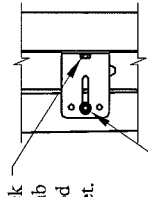
Details on some views may have been omitted for clarity.



(.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 1 1/32" rivets.



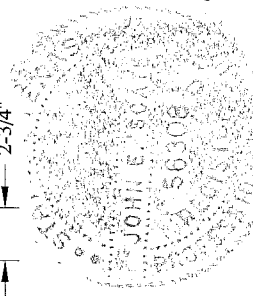
(.102) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

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

	SCALE	1/8" = 1'-0"
	DATE	2-18-2013
Models:	3212, 3216, 3285	
	31.8 (psf) / - 35.9 (psf) at 06'-00" through 17.5 (psf) / - 19.7 (psf) at 10'-00"	
C.H.I. Drawing:	TZ4-09-63313 page 2 of 2	

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2/22/13

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

(.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