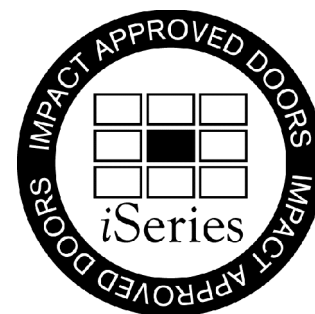




Supplemental Instructions

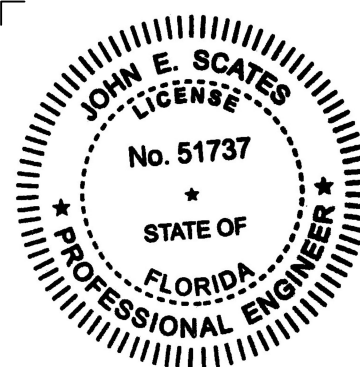
Sandwich Doors: Commercial

 CAUTION	Higher wind pressures and larger doors require additional reinforcement. Premature failure of door system may result from improper application. See chart in lower left corner of drawing sheet one for the approved wind pressures and door sizes.
 WARNING	These supplemental instructions do not contain basic door installation steps and related safety information. Failure to follow basic installation steps and related safety information may result in injury or death. Door installers must follow a primary instruction manual for basic door installation steps and related safety information.

The correct selection of door and framing materials in adherence with local building code directives is the responsibility of the building owner/designer. Use of a reinforced garage door does not constitute automatic compliance with any building code. Local building code officials determine compliance criteria.

A locking system must be installed if the door is not electrically operated.

See drawing for stop molding requirements, when door is not more than 1" wider than opening. When using stop molding, secure molding with minimum 8d nails or 2-1/2" long screws.



Professional Engineer's seal provided only for verification of wind load construction details. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by John E Scates
Date: 2023.10.17 14:31:36 -05'00'

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2560 King Arthur, Ste 124-54
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For Use With Drawing Number Z5-10-63318

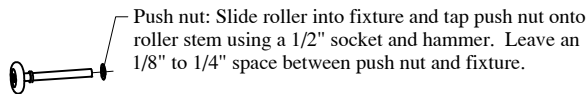
Strut Placement

Section Number	Door Height								
	6'-0" to 8'-0"	8'-3" to 10'-0"	10'-3" to 12'-0"	12'-3" to 14'-0"	14'-3" to 16'-0"	16'-3" to 18'-0"	18'-3" to 20'-0"	20'-3" to 22'-0"	22'-3" to 24'-0"
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	1 at Detail A
10	N/A	N/A	N/A	N/A	N/A	N/A	0	1 at Detail A	1 at Detail A
9	N/A	N/A	N/A	N/A	N/A	0	1 at Detail A	1 at Detail A	1 at Detail A
8	N/A	N/A	N/A	N/A	0	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
7	N/A	N/A	N/A	0	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
6	N/A	N/A	0	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
5	N/A	0	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
4	0	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
3	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A	1 at Detail A
2	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B	1 at Detail B
1	0	0	0	0	0	0	0	0	0

Push Nut Detail (use on all rollers)

use 3/8" I. D. on bottom fixture roller stem

use 7/16" I. D. on end hinge and top fixture roller stems

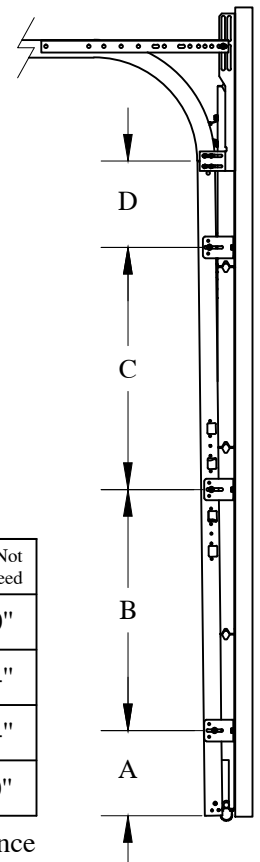


Track Bracket Spacing

Track bracket spacing shown for doors up to four sections high. Additional door sections may be added for maximum door height depicted on line drawing. Track brackets must be added (per track) for each section and spaced at a distance not greater than the corresponding section height (see line drawing for required quantities).

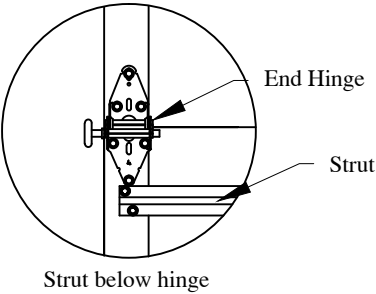
	Do Not Exceed
D	30"
C	24"
B	24"
A	10"

+/-3" tolerance

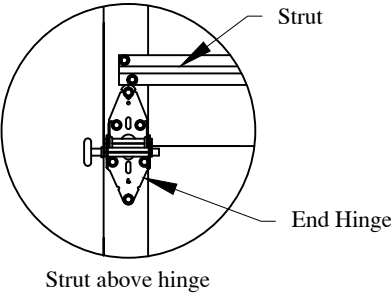


For Use With Drawing Number
Z5-10-63318

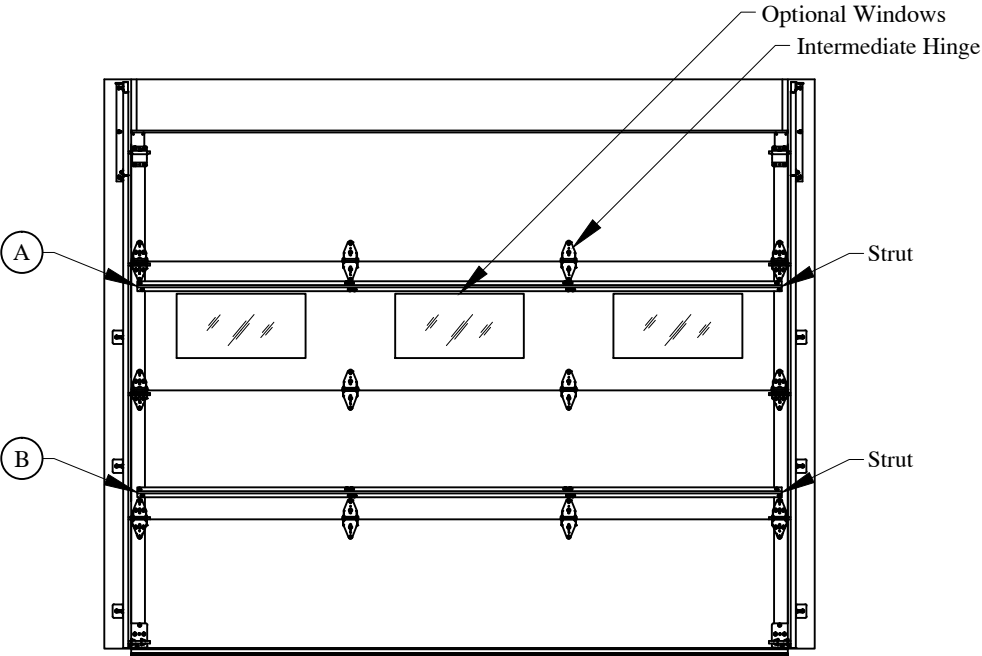
Strut Placement Detail



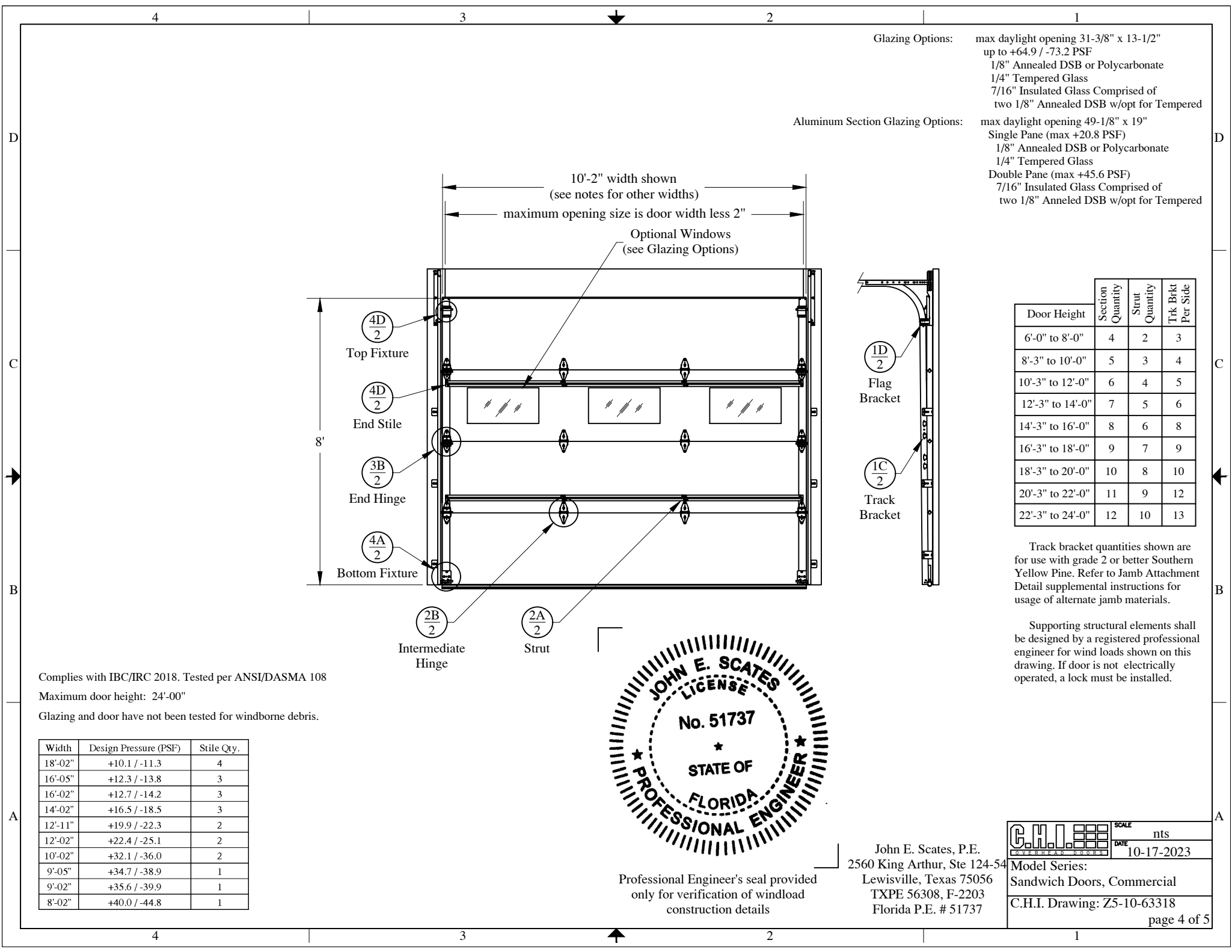
Detail A



Detail B



2 Struts



Glazing Options: max daylight opening 31-3/8" x 13-1/2" up to +64.9 / -73.2 PSF
1/8" Annealed DSB or Polycarbonate
1/4" Tempered Glass
7/16" Insulated Glass Comprised of two 1/8" Annealed DSB w/opt for Tempered

Aluminum Section Glazing Options: max daylight opening 49-1/8" x 19" Single Pane (max +20.8 PSF)
1/8" Annealed DSB or Polycarbonate
1/4" Tempered Glass
Double Pane (max +45.6 PSF)
7/16" Insulated Glass Comprised of two 1/8" Annealed DSB w/opt for Tempered

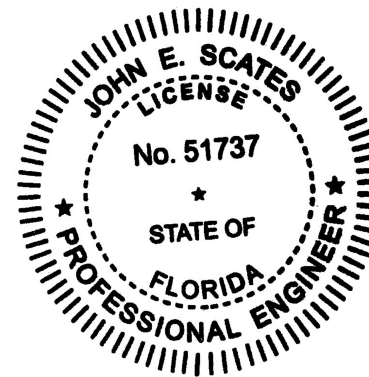
Door Height	Section Quantity	Strut Quantity	Trk Bkt Per Side
6'-0" to 8'-0"	4	2	3
8'-3" to 10'-0"	5	3	4
10'-3" to 12'-0"	6	4	5
12'-3" to 14'-0"	7	5	6
14'-3" to 16'-0"	8	6	8
16'-3" to 18'-0"	9	7	9
18'-3" to 20'-0"	10	8	10
20'-3" to 22'-0"	11	9	12
22'-3" to 24'-0"	12	10	13

Track bracket quantities shown are for use with grade 2 or better Southern Yellow Pine. Refer to Jamb Attachment Detail supplemental instructions for usage of alternate jamb materials.

Supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing. If door is not electrically operated, a lock must be installed.

Complies with IBC/IRC 2018. Tested per ANSI/DASMA 108
Maximum door height: 24'-00"
Glazing and door have not been tested for windborne debris.

Width	Design Pressure (PSF)	Stile Qty.
18'-02"	+10.1 / -11.3	4
16'-05"	+12.3 / -13.8	3
16'-02"	+12.7 / -14.2	3
14'-02"	+16.5 / -18.5	3
12'-11"	+19.9 / -22.3	2
12'-02"	+22.4 / -25.1	2
10'-02"	+32.1 / -36.0	2
9'-05"	+34.7 / -38.9	1
9'-02"	+35.6 / -39.9	1
8'-02"	+40.0 / -44.8	1



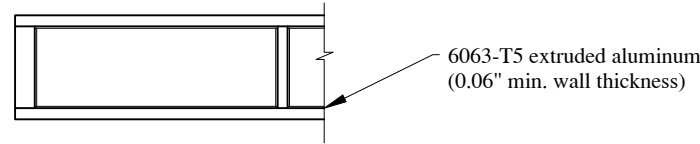
Professional Engineer's seal provided only for verification of windload construction details

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Florida P.E. # 51737

	SCALE	nts
	DATE	10-17-2023
Model Series: Sandwich Doors, Commercial		
C.H.I. Drawing: Z5-10-63318		
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Details on some views may have been omitted for clarity.

Aluminum Section Detail



6063-T5 extruded aluminum
(0.06" min. wall thickness)

Top Fixture

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

push nut

End Stile

(.034) steel end stile

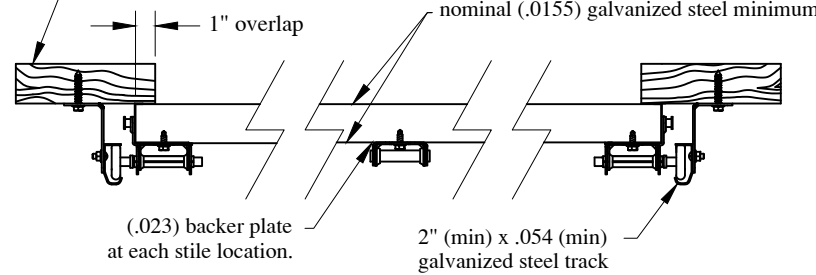
Optional Top Fixture

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

push nut

(.034) steel end stile

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.



(.023) backer plate
at each stile location.

nominal (.0155) galvanized steel minimum

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

Flag Bracket

(.086) galvanized
steel flag bracket
attached to wood
jamb with three
5/16" x 1-5/8"
wood lag screws, to
horizontal track
with two 1/4" x 5/8"
track bolts and nuts
and to vertical track
with two 1/4" x 5/8"
track bolts and nuts.

Track Bracket

(.102) galvanized steel track
bracket attached to wood jamb
with one 5/16" x 1-5/8" wood
lag screw per bracket and
attached to vertical track
with one 1/4" x 5/8" track bolt and
nut or two 1/4" x 11/32" rivets.

End Hinge

galvanized steel
attached with
six 1/4" x 3/4" screws.

push nut

Intermediate Hinge

(.058) galvanized steel
attached with
four 1/4" x 3/4" screws.

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

2 3/4"

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

3-1/2" (min.) stem

Bottom Bracket

(.102) galvanized steel bottom bracket
attached with
four red 1/4" x 3/4" screws.

push nut

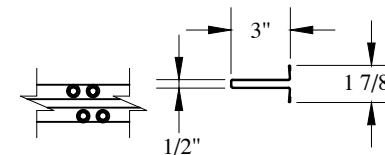
Aluminum extrusion

Vinyl
weatherstrip

Optional Bottom Bracket

(.109) galvanized steel bottom bracket
attached with
four red 1/4" x 3/4" screws.

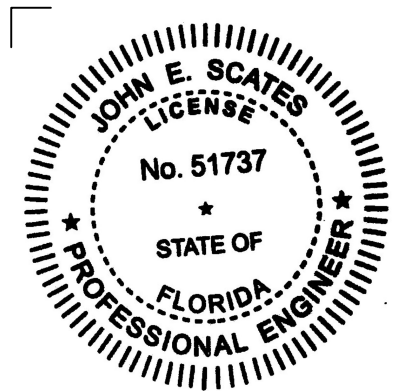
push nut



Strut and Strut Attachment

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

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