STEVES AND SONS
203 Humble Ave.
San Antonio, TX 78225

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 14:56:18 -04'00'

This item has been digitally signed and sealed by **L. F. Schmidt, P.E.** on the date adjacent to the seal.

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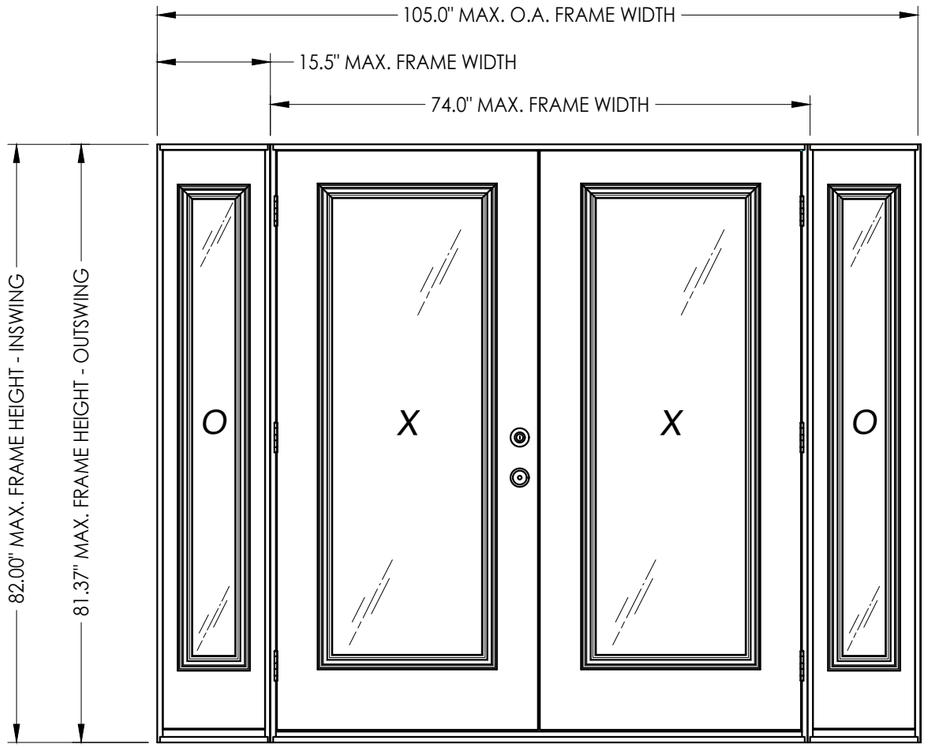
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

GLAZED STEEL DOUBLE DOOR w/ SIDELITES

INSWING / OUTSWING

"NON-IMPACT"



GENERAL NOTES

1. This product anchoring drawing has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2..
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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1	Typical elevation, design pressures & general notes
2	Door panel construction details and glazing detail
3	Sidelite panel construction details and glazing detail
4	Horizontal cross sections
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6	Vertical cross sections
7	Buck and frame anchoring - 2X buck masonry construction
8	Frame anchoring - 1X buck masonry construction
9	Astragal details
10	Bill of materials and components

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	105.0" x 82.00"	G1	+30.0	-30.0
OUTSWING	105.0" x 81.37"		+30.0	-35.0

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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2	9/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.10
SHEET 1 OF 10

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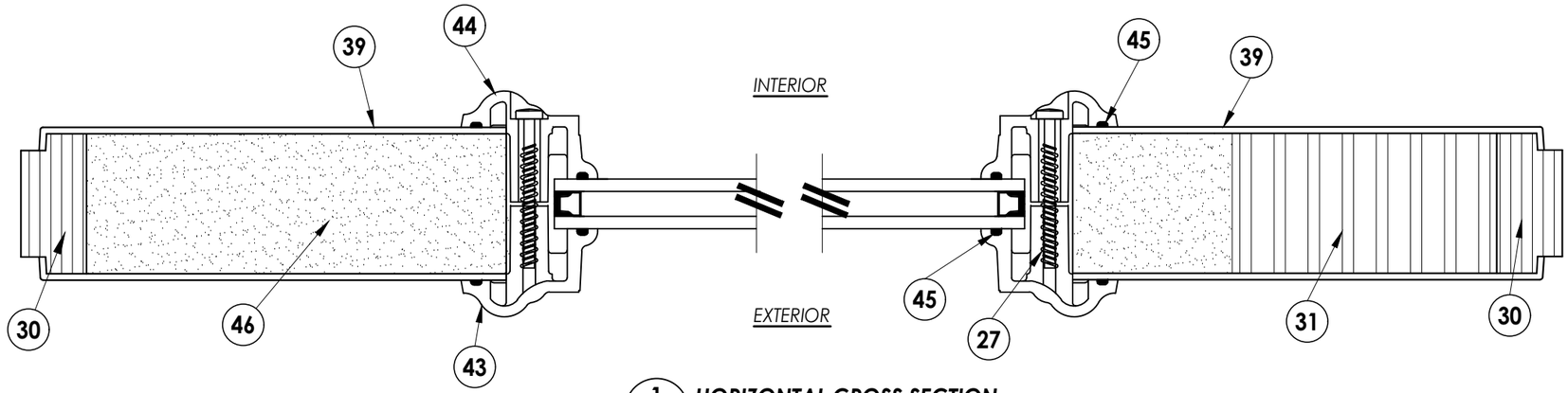
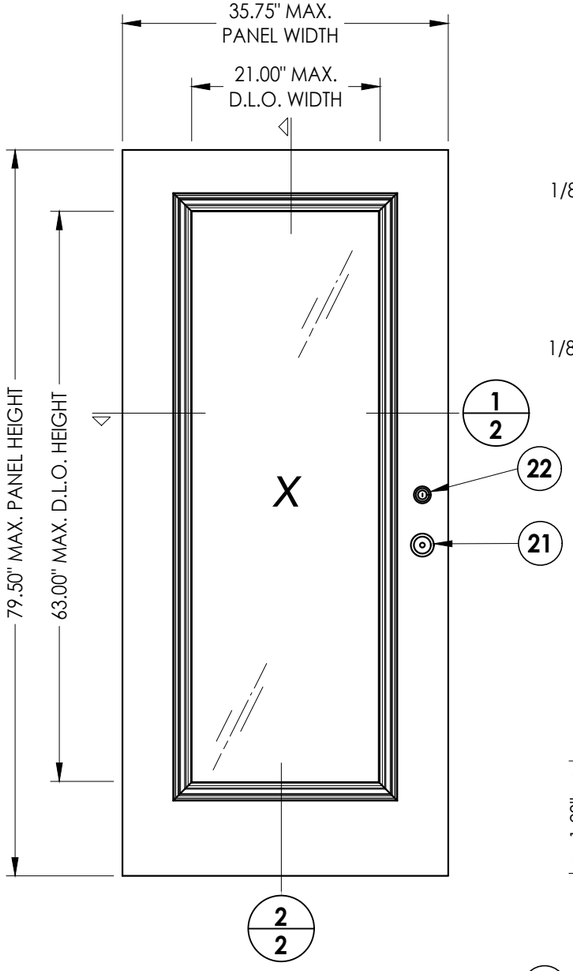
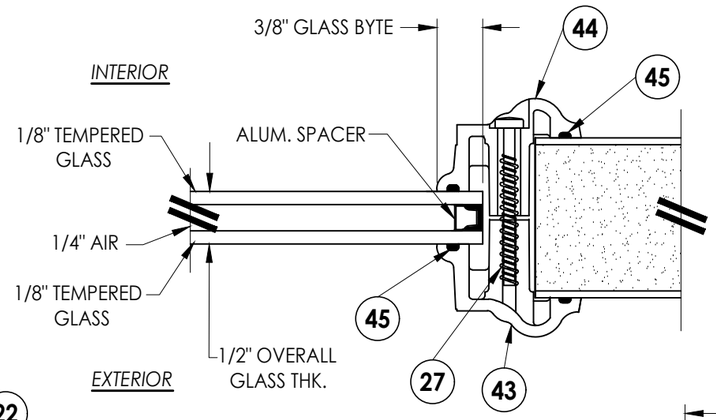


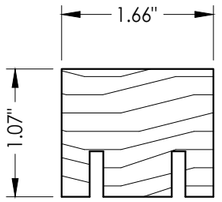
1/2 HORIZONTAL CROSS SECTION



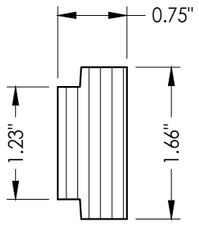
7 STEEL DOOR GLAZED



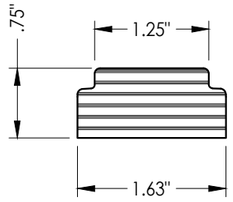
G1 GLAZING DETAIL



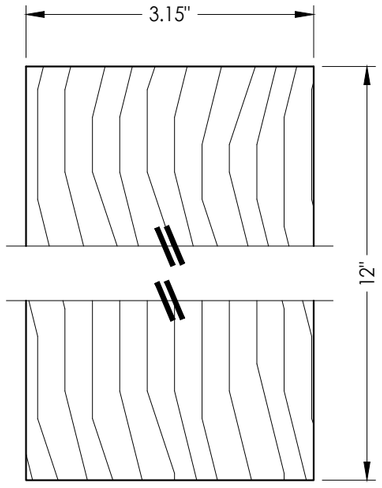
34 BOTTOM RAIL



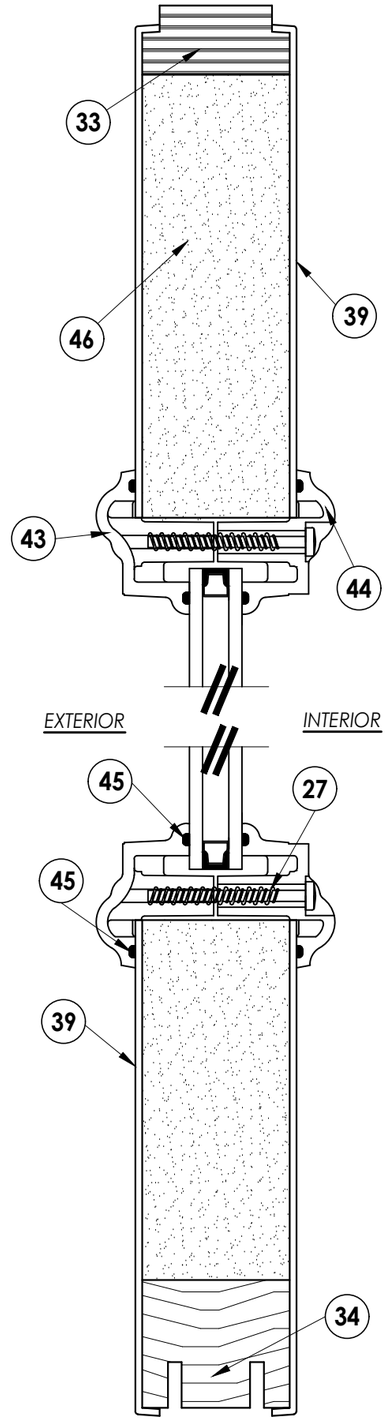
30 HINGE & LATCH STILE



33 TOP RAIL



31 LOCK BLOCK



2/2 VERTICAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION DETAILS AND GLAZING DETAIL

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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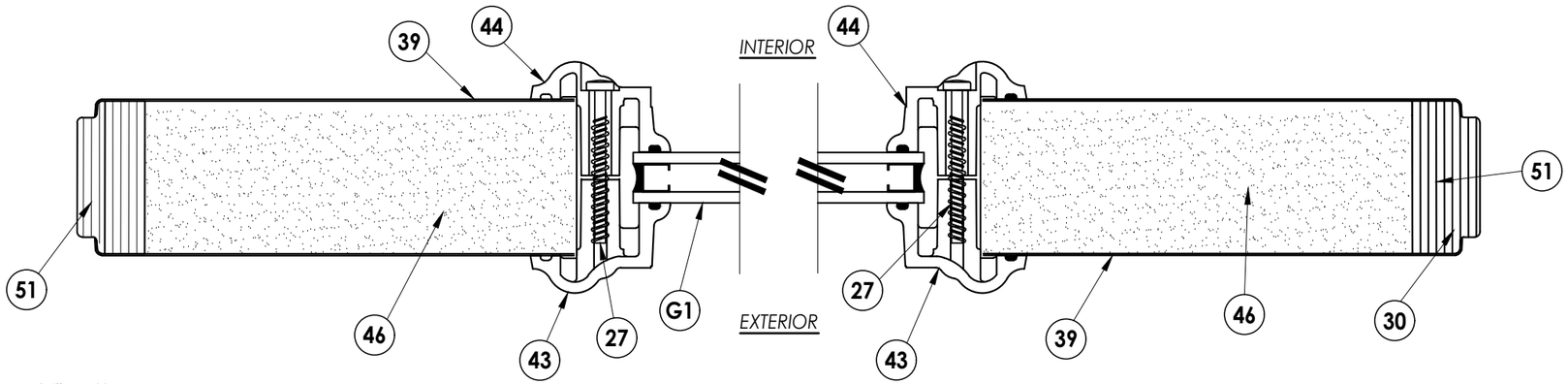
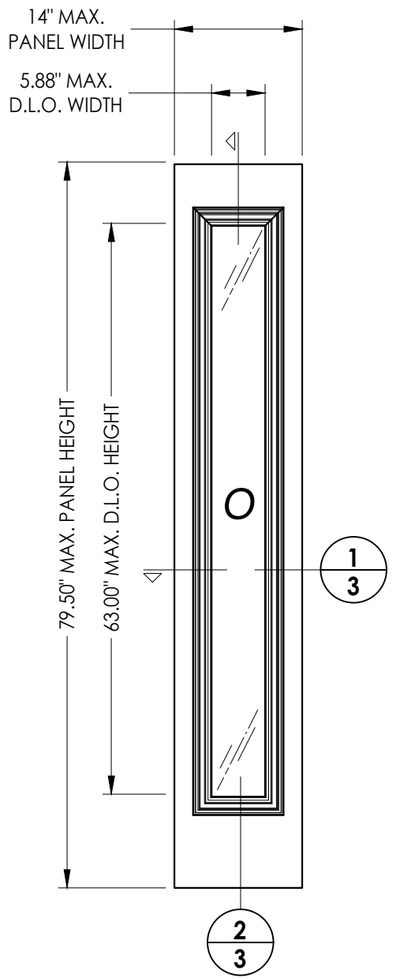
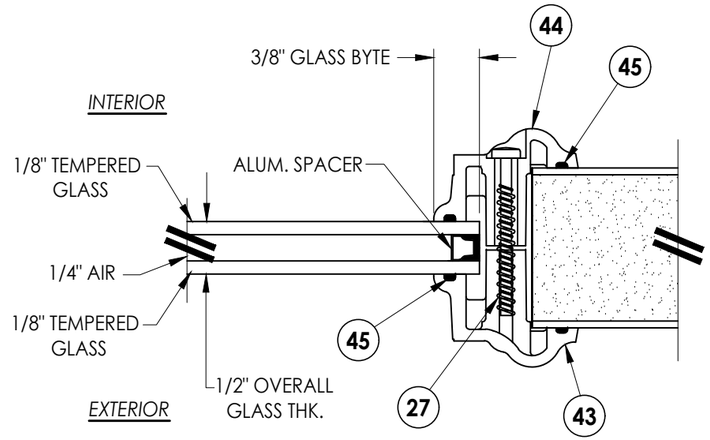


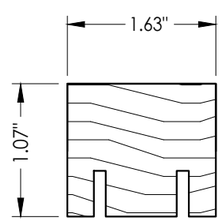
1/3 HORIZONTAL CROSS SECTION



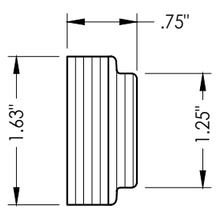
50 STEEL SIDELITE GLAZED



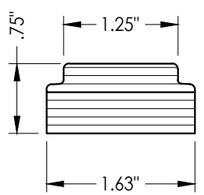
G1 GLAZING DETAIL



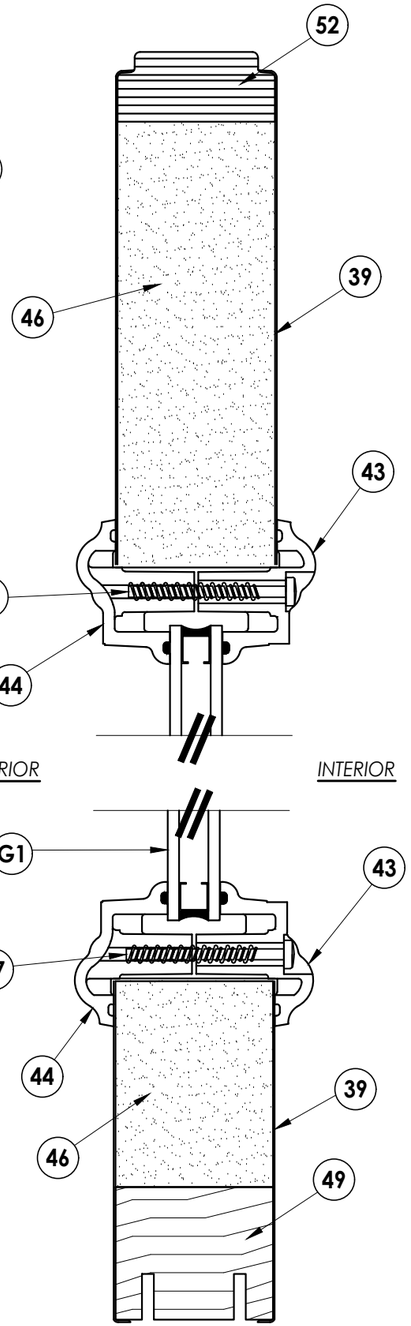
49 SIDELITE BOTTOM RAIL



51 SIDELITE STILE



52 SIDELITE TOP RAIL



2/3 VERTICAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
SIDELITE PANEL CONSTRUCTION AND GLAZING DETAIL

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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1	10/08/17	UPDATE TO 6TH ED. (2017) FBC	BY

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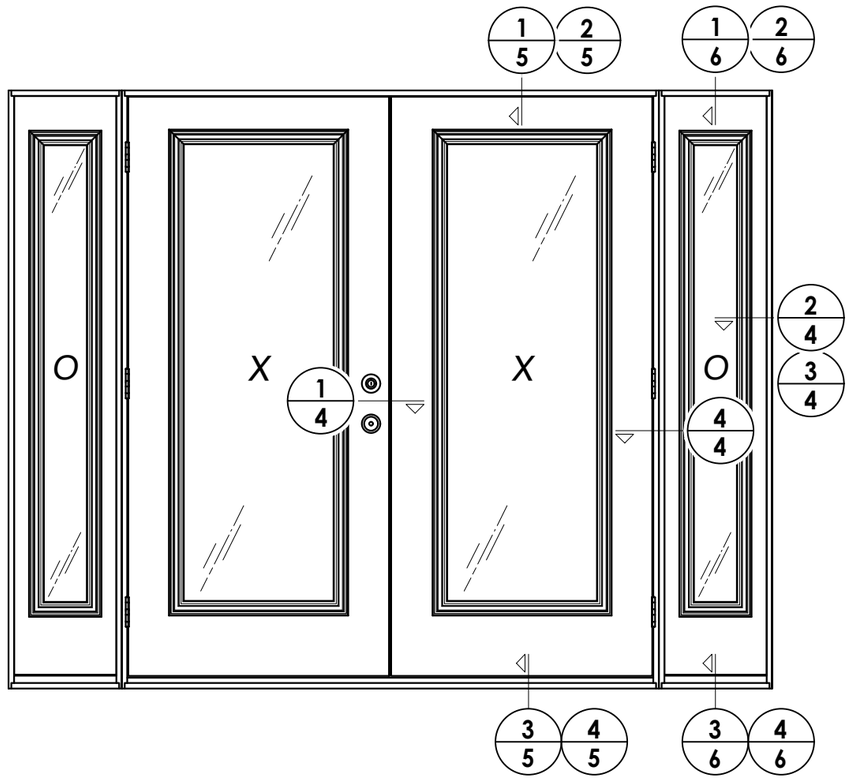
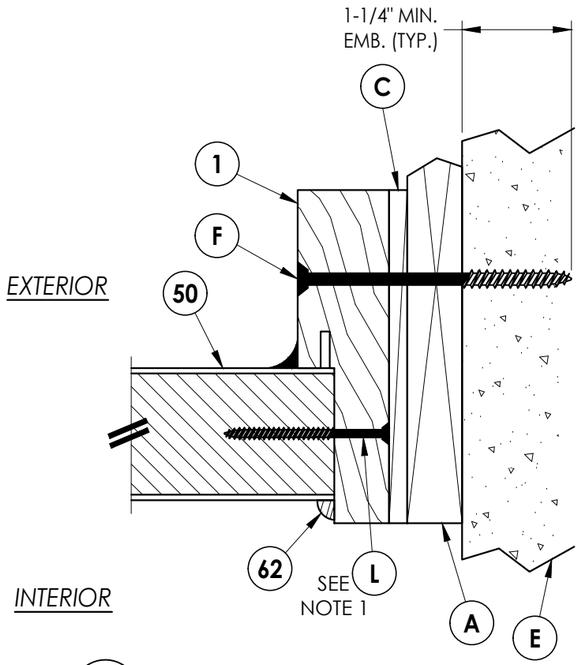
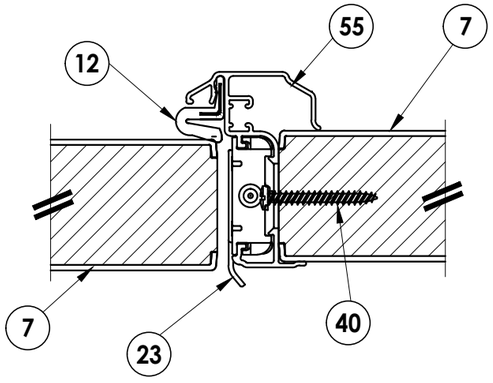




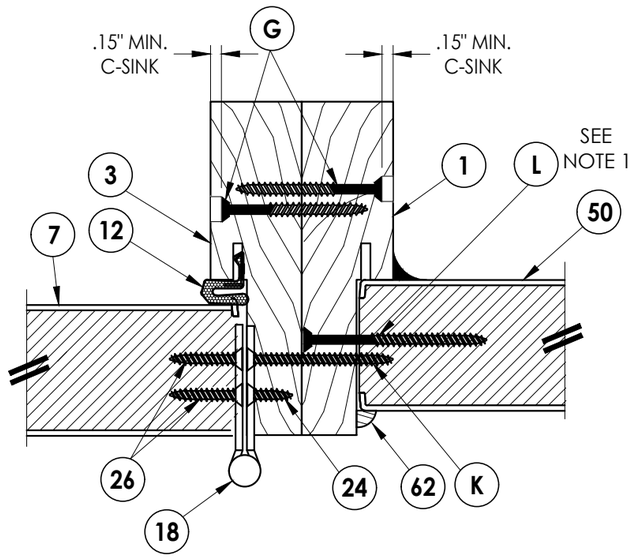
3/4 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck

NOTE:

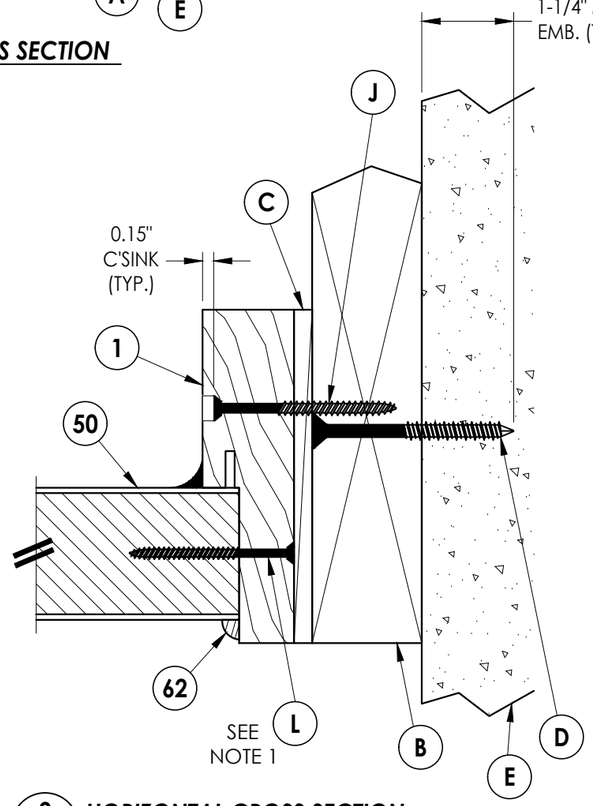
1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



1/4 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved



4/4 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved



2/4 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved

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PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

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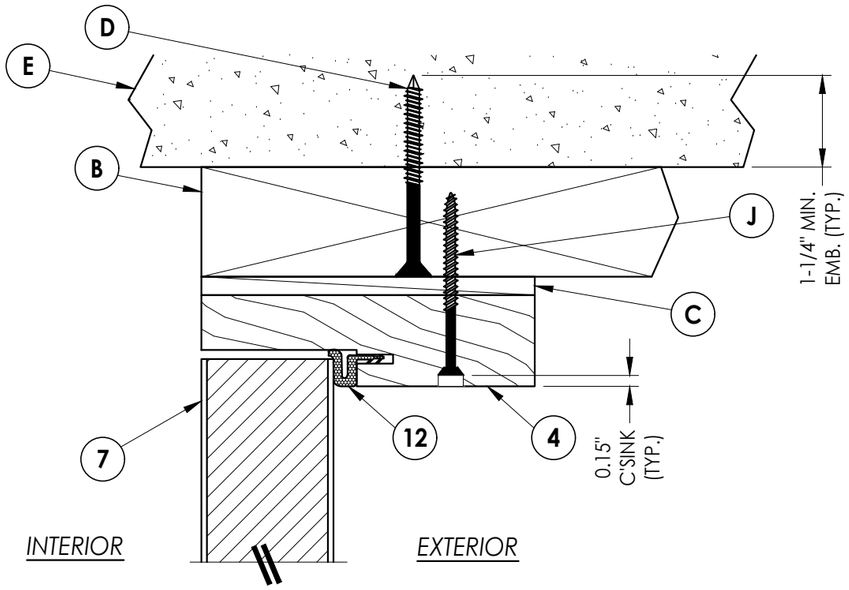
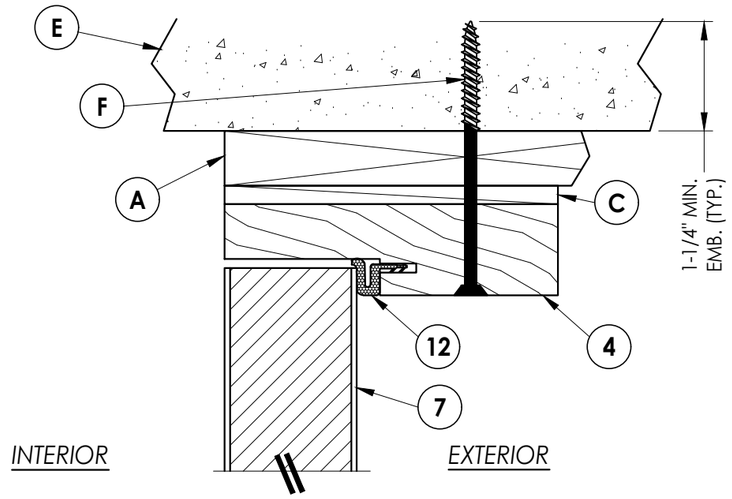
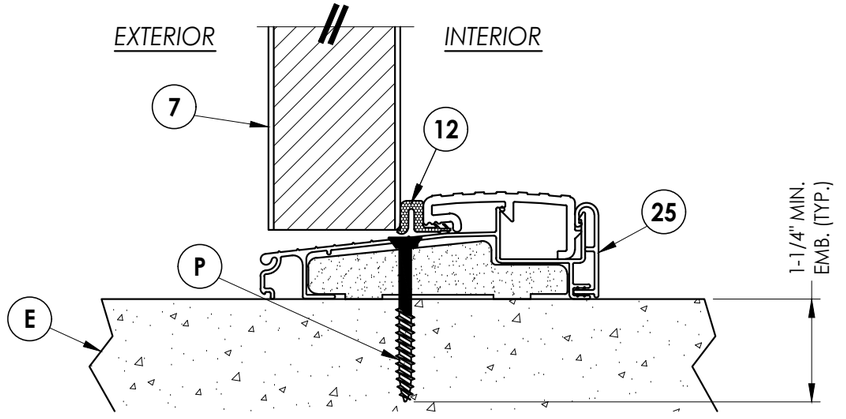


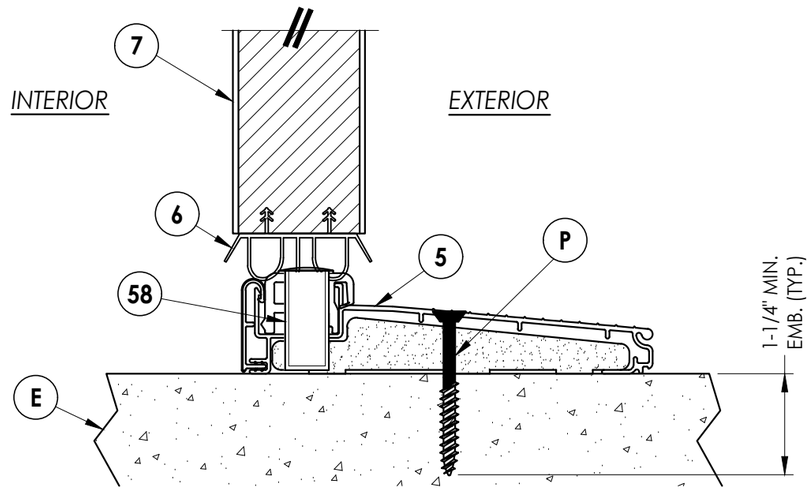
1/5 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



2/5 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



3/5 **VERTICAL CROSS SECTION**
Outswing sill



4/5 **VERTICAL CROSS SECTION**
Inswing sill

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PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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REVISIONS

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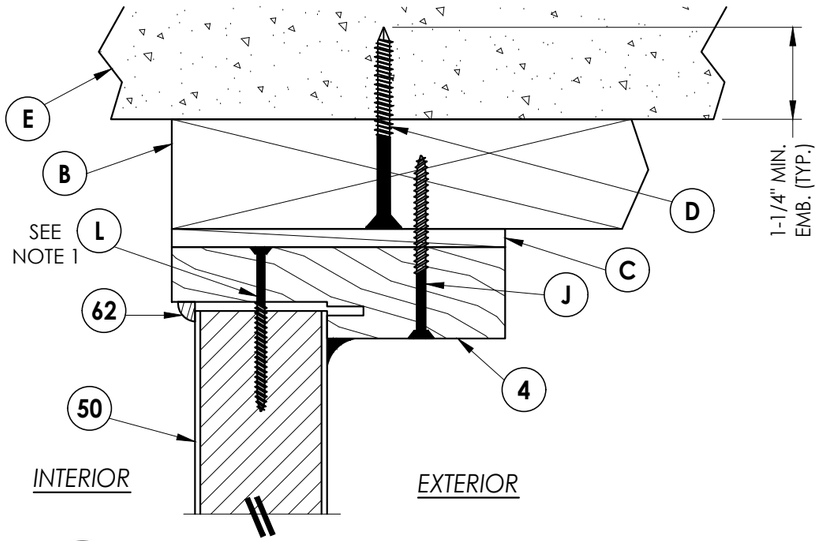
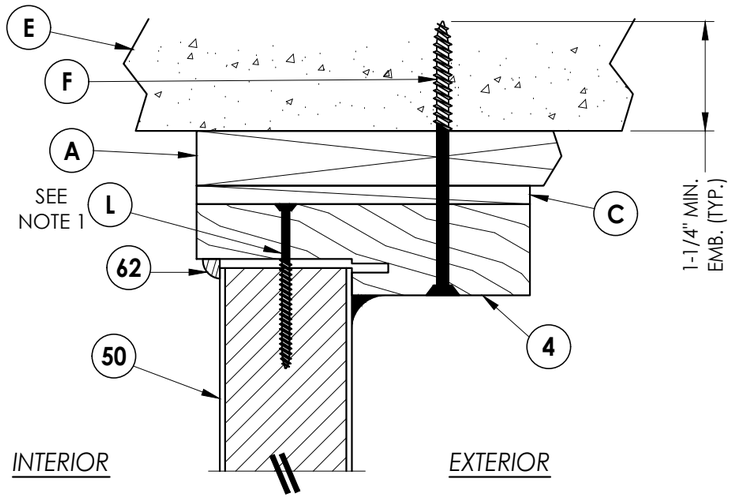


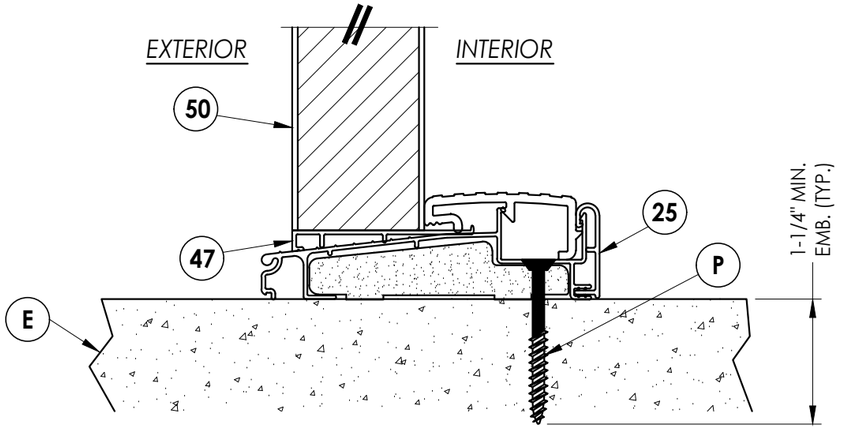
1/6 VERTICAL CROSS SECTION



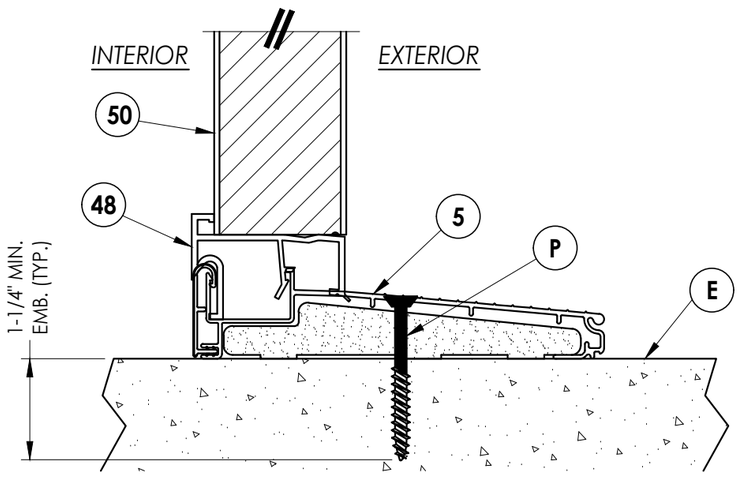
2/6 VERTICAL CROSS SECTION
Shown w/1X sub-buck

NOTE:

1. Screws thru head and sill jamb located 3" from each end and on center line.



3/6 VERTICAL CROSS SECTION
Outswing sill



4/6 VERTICAL CROSS SECTION
Inswing sill

Documents Prepared By:
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PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

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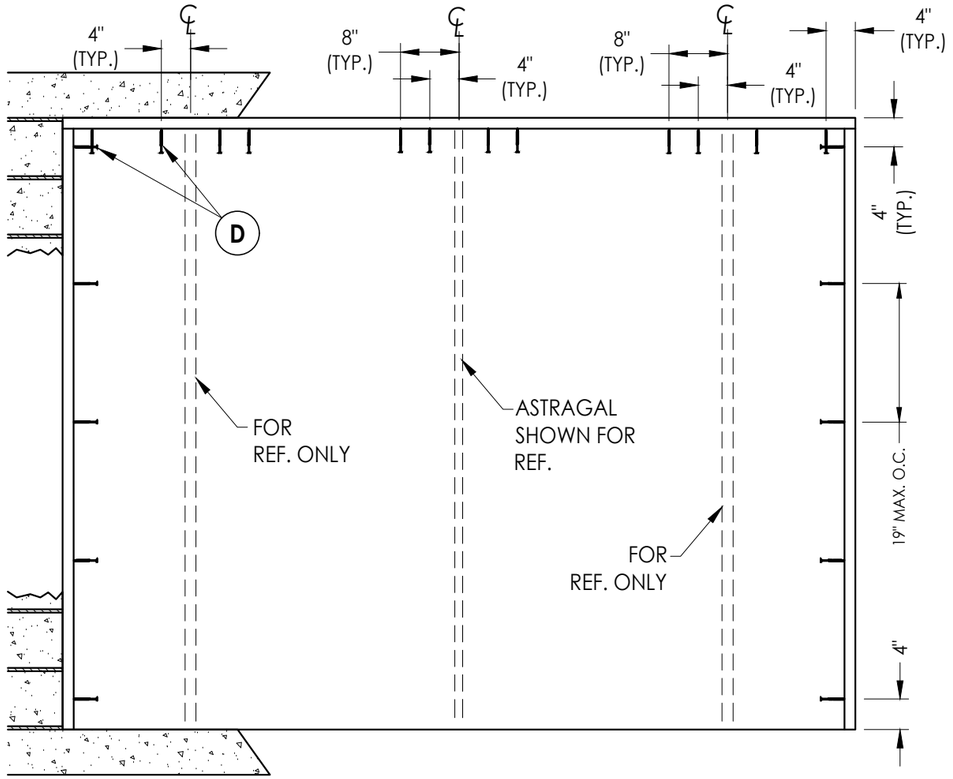
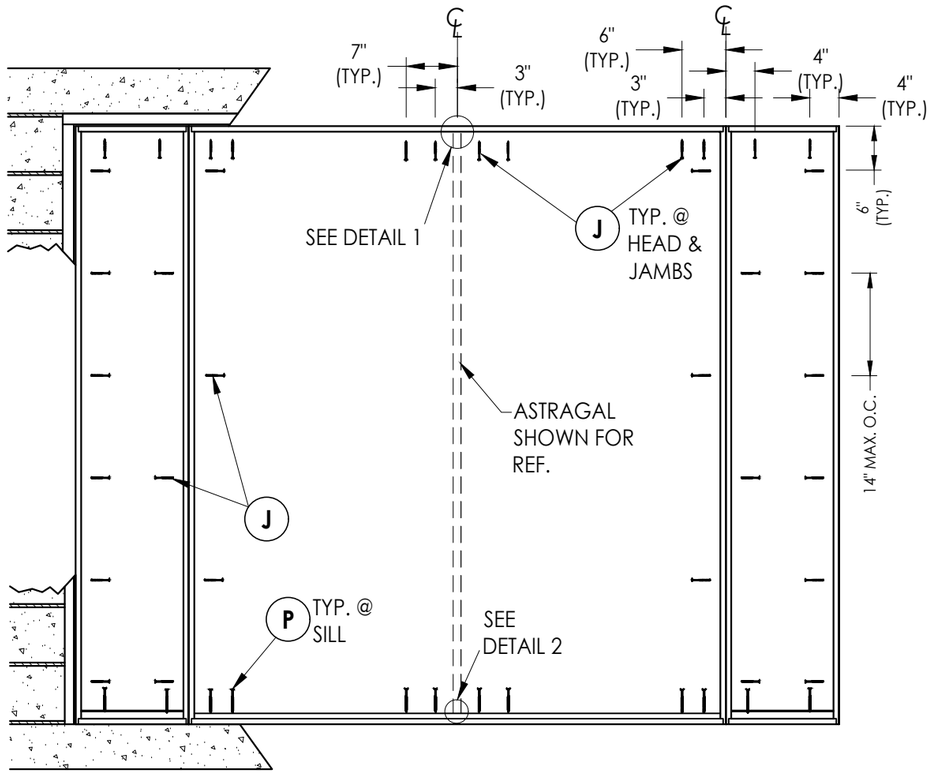
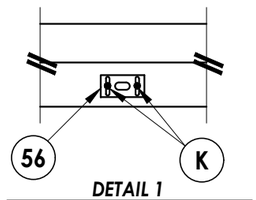


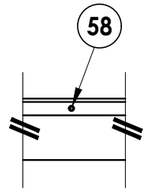
BUCK ANCHORING



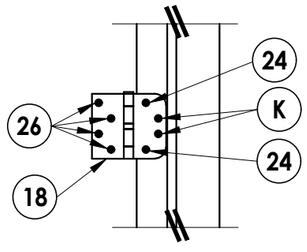
FRAME ANCHORING
Masonry 2X buck construction



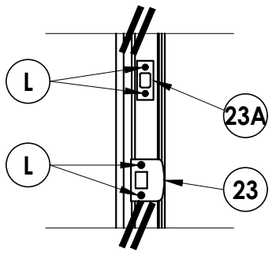
DETAIL 1
Astragal strike plate @ head



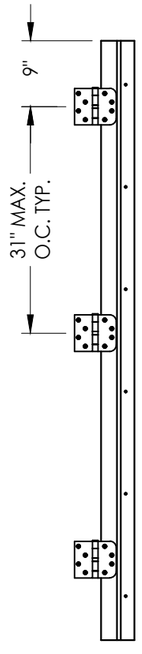
DETAIL 2
Astragal strike plate @ sill



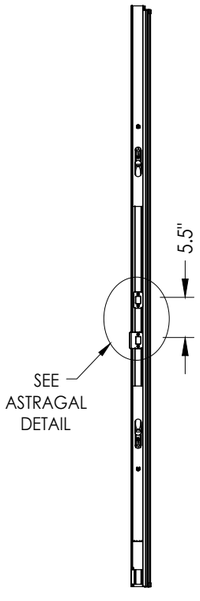
HINGE DETAIL 1



ASTRAGAL DETAIL
@ Strike



HINGE JAMB



ASTRAGAL
Strike

September 21, 2020

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
2X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.10
SHEET 7 OF 10

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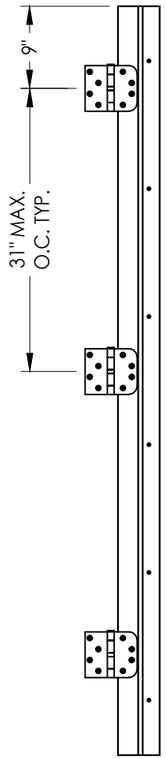

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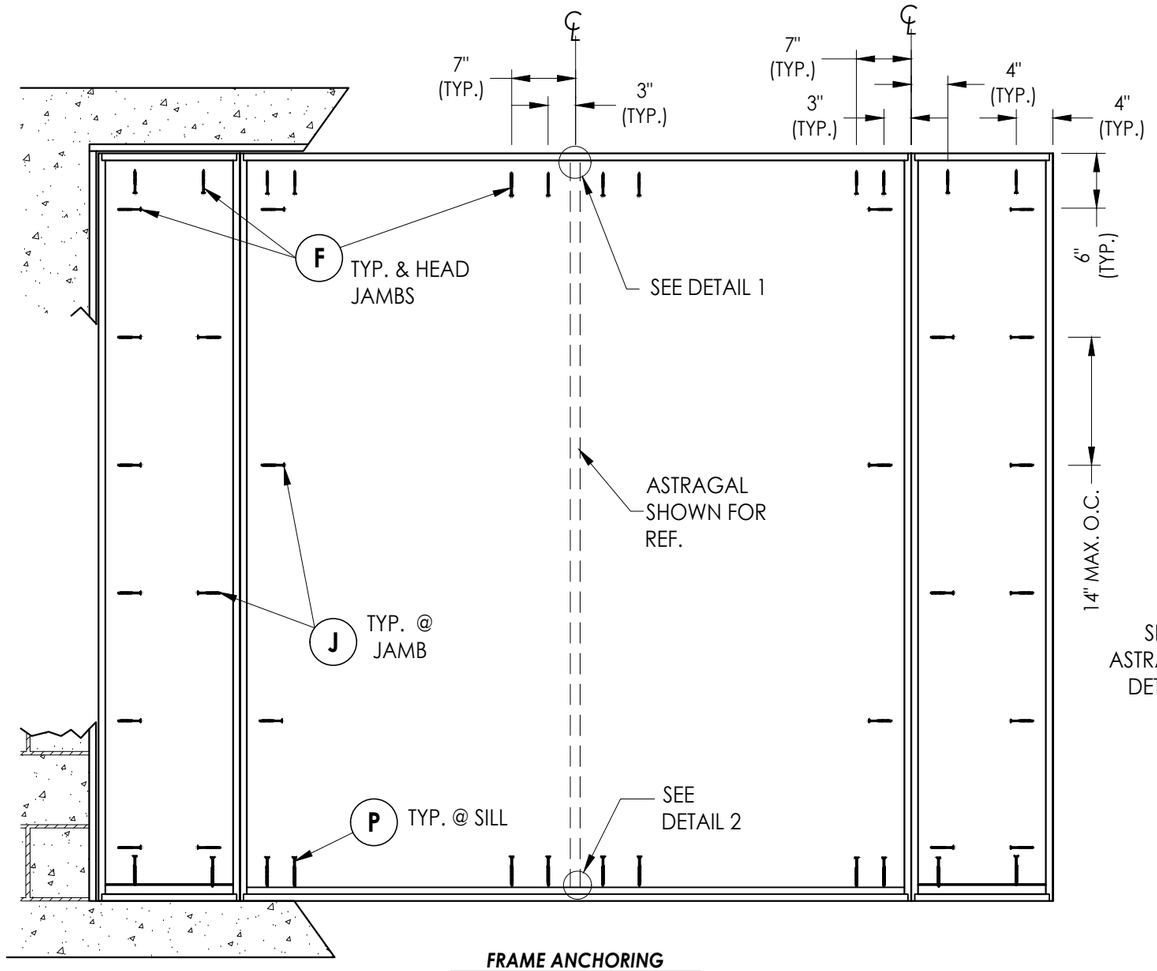
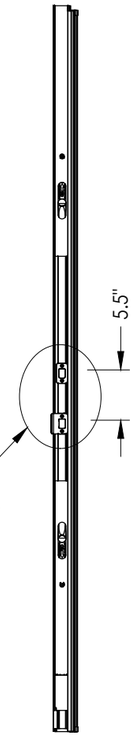
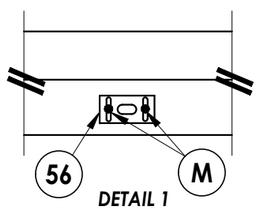


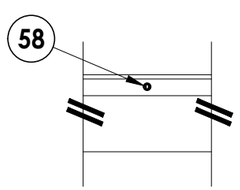
FRAME ANCHORING
Masonry 1X buck construction



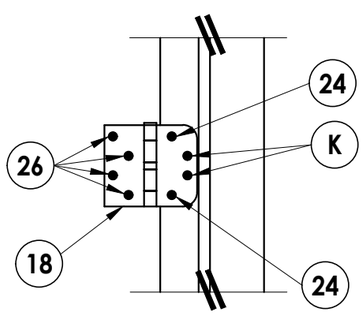
ASTRAGAL
Strike



DETAIL 1
Astragal strike plate @ head



DETAIL 2
Astragal strike plate @ sill



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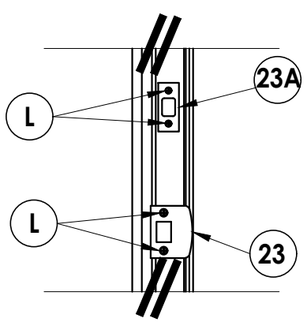

ASTRAGAL DETAIL
@ Strike

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
FRAME ANCHORING
BUCK MASONRY CONSTRUCTION

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DRAWING NO.: FL-17903.10
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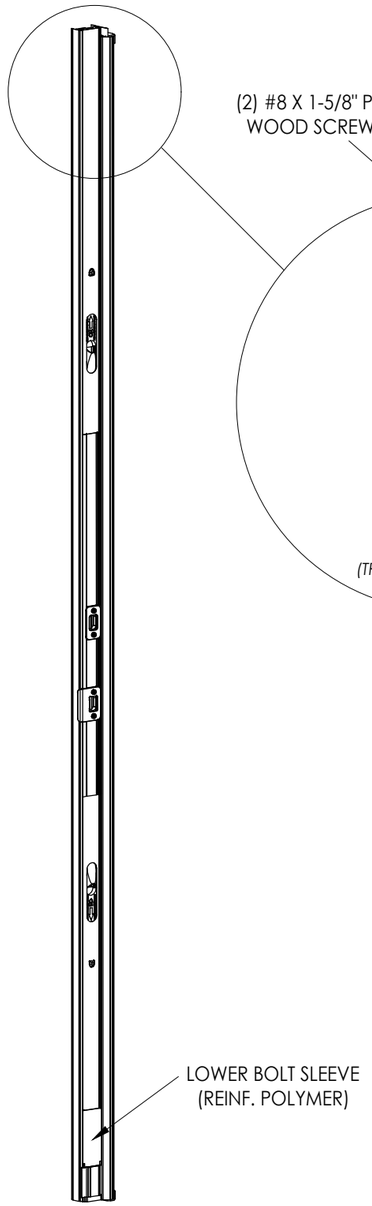
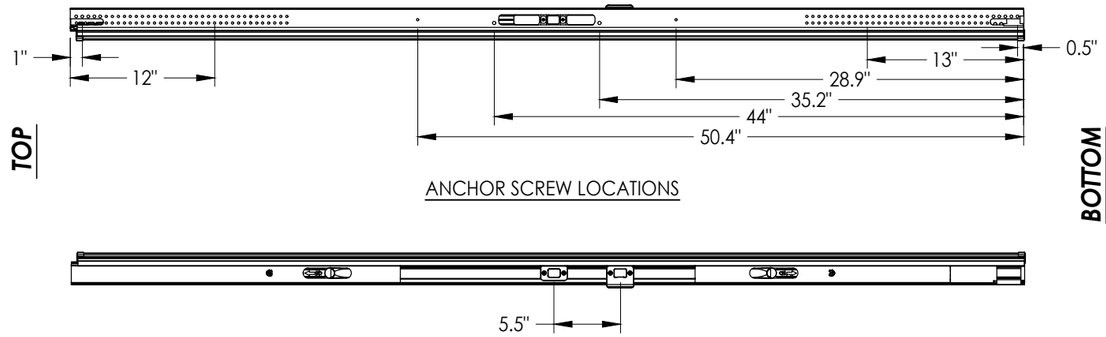
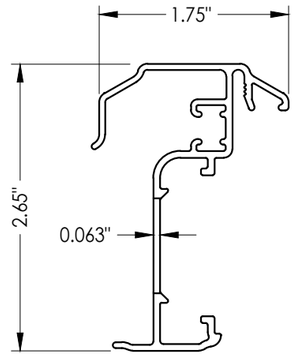


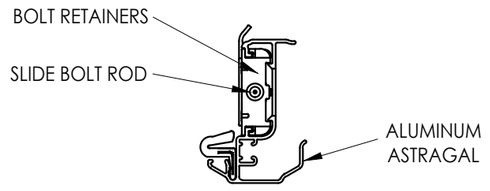


ANCHOR SCREW LOCATIONS

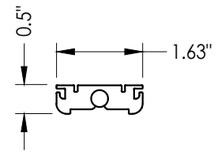
HARDWARE LOCATIONS



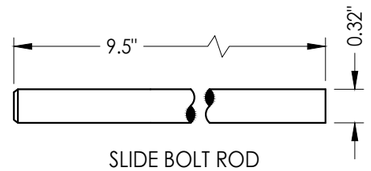
ASTRAGAL SECTION



55 ***ALUMINUM ASTRAGAL***
By Endura Products



BOLT RETAINER
(GF NYLON)



SLIDE BOLT ROD
(STEEL)

ULTIMATE HURRICANE ASTRAGAL

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY: *ASTRAGAL DETAILS*

NO.	DATE	REVISIONS	BY
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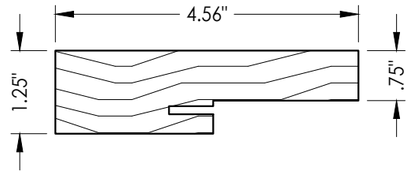
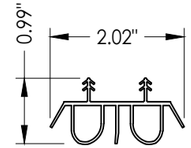
BILL OF MATERIALS

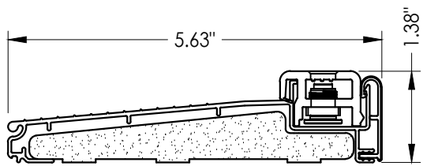
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
G	#10 X 2" PFH WS	STEEL
J	#10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
K	#9 X 2" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
M	3/16" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM/COMP.
6	DOOR BOTTOM SWEEP	PVC
7	STEEL DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
12	WEATHER STRIP QEBD650 Q-LON	FOAM
18	4" HINGE	STEEL
21	KWIKSET LOCK - SERIES 200 PASSAGE	STEEL
22	KWIKSET DEADBOLT - SERIES 600	STEEL
23	STRIKE PLATE	STEEL
23A	DEADBOLT STRIKE	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH WS	STEEL
27	#8 x 1-1/2" PPH SCREW (LIGHT FRAME SCREW)	STEEL
30	LATCH AND HINGE STILE - SG >= 0.42	LVL
31	LOCK BLOCK - SG >= 0.42	WOOD
33	TOP RAIL - SG >= 0.42	LVL
34	BOTTOM RAIL - SG >= 0.42	WOOD
39	STEEL SKIN .025" MIN. THICKNESS	STEEL
40	#8 X 1-1/2" PANHEAD SMS	STEEL
43	FEMALE LITE FRAME- WESTERN REFLECTIONS/ODL	POLYPROPYLENE
44	MALE LITE FRAME- WESTERN REFLECTIONS/ODL	POLYPROPYLENE
45	SILICONE SEALANT	SILICONE
46	INSULATING FOAM CORE	POLYPROPYLENE
47	SIDELITE SPACAER - (OUTSWING)	PVC
48	SIDELITE SPACAER - (INSWING)	PVC
49	SIDELITE BOTTOM RAIL	WOOD
50	STEEL SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
51	SIDELITE STILE - SG >= 0.42	LVL
52	SIDELITE TOP RAIL - SG >= 0.42	LVL
55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUMINUM
56	ASTRAGAL STRIKE PLATE	PVC
62	QUARTER ROUND	WOOD



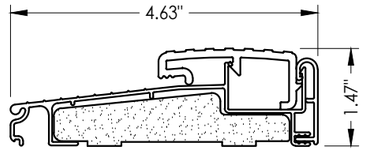
4 3 1 **SIDE & HEAD JAMBS**



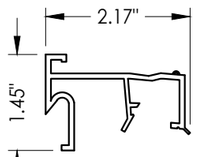
6 **SWEEP**



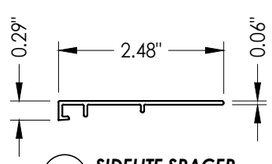
5 **INSWING THRESHOLD**



25 **OUTSWING THRESHOLD**



48 **SIDELITE SPACER** Inswing



47 **SIDELITE SPACER** Outswing

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. *Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.*

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

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