

WINDSERT™

Operational Window Insert Utilizing
A Fiberglass Double Door
w/ or w/out Sidelites

OUTSWING
"IMPACT"

GENERAL NOTES

1.

This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4.

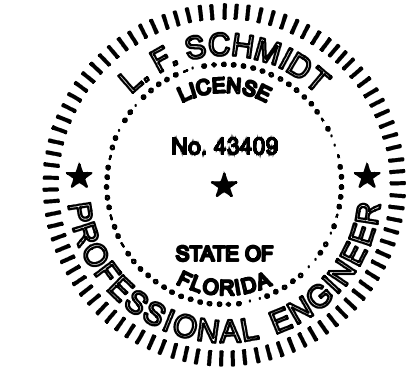
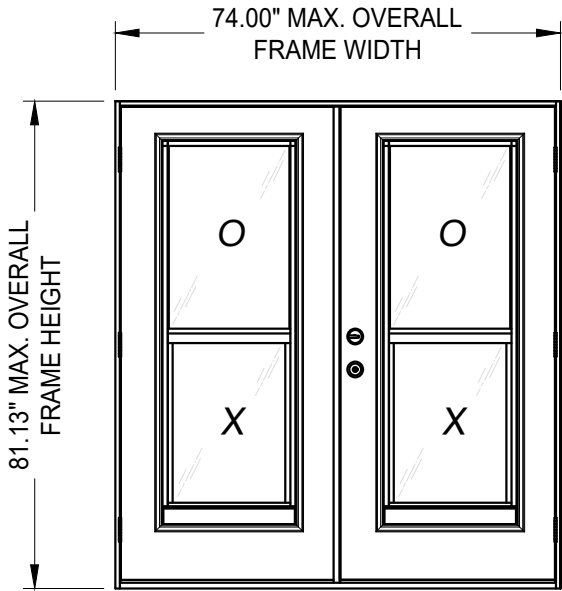
When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5.

For 2x stud construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6.

Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7.

This product meets water infiltration requirements for "HVHZ".

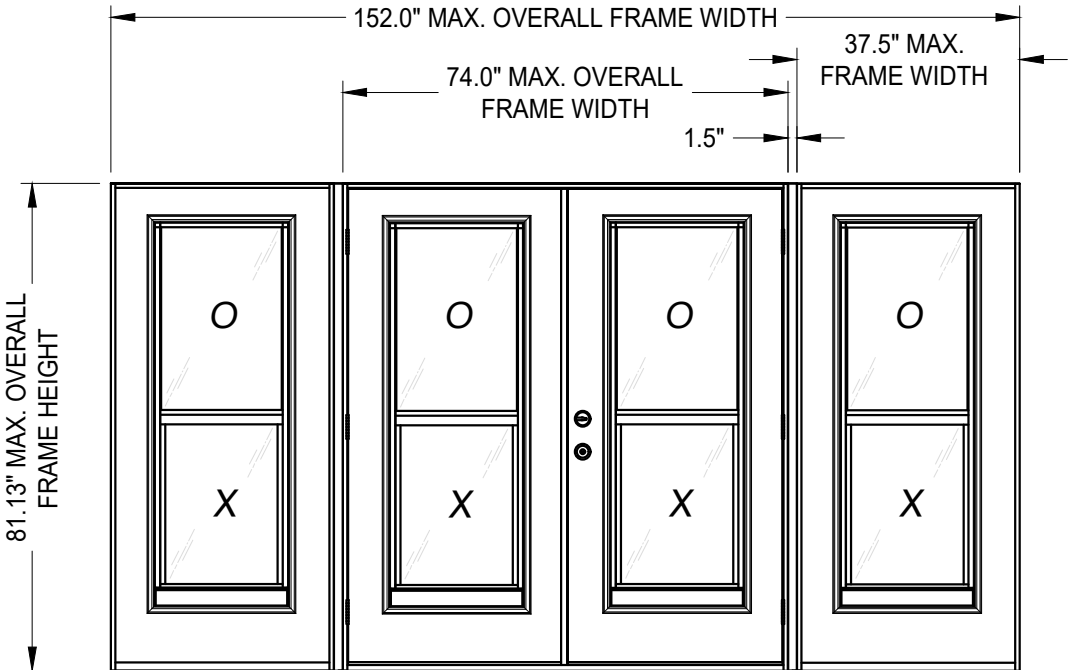
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Lite frame details and glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Buck and frame anchoring (XX)
10	Buck and frame anchoring (OXXO)
11	Astragal details
12	Bill of materials and components



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

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
XX	74" x 81.13"	20" x 29.13"	+50.0	-55.0
OXXO	152.0" x 81.13"	20" x 29.13"	+50.0	-55.0

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

DLP
WINDSERT

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

6

8/09/23

UPDATE TO 8TH ED. (2023)

FBC

5

8/31/20

UPDATE TO 7TH ED. (2020)

FBC

4

8/16/17

UPDATE TO 6TH ED. (2017)

FBC

3

9/14/15

REVISED WINDSERT COMPONENTS

2

3/28/15

UPDATE TO 5TH ED. (2014)

FBC

1

9/28/11

UPDATED TO 2010 FBC

NO.

DATE

BY

REVISIONS

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

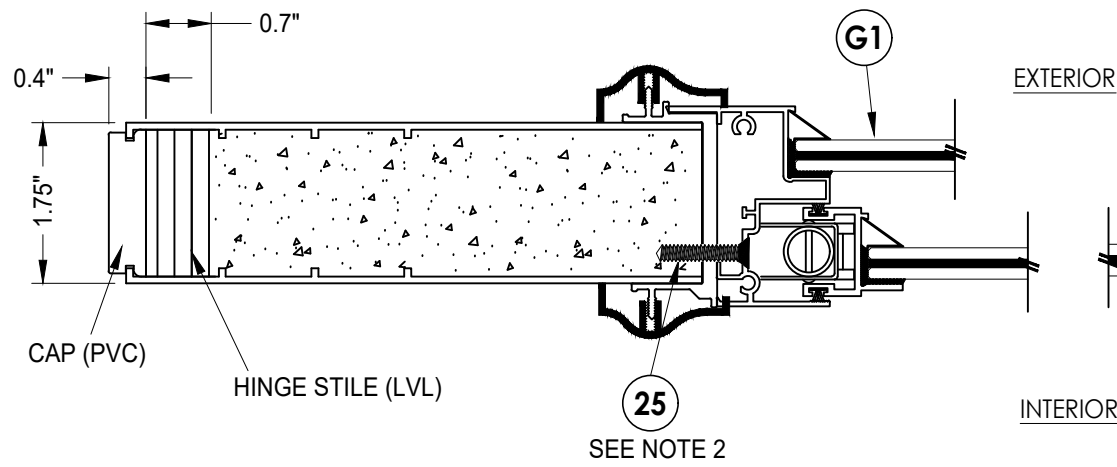
DRAWING NO.:
FL-14803.6

SHEET 1 OF 12

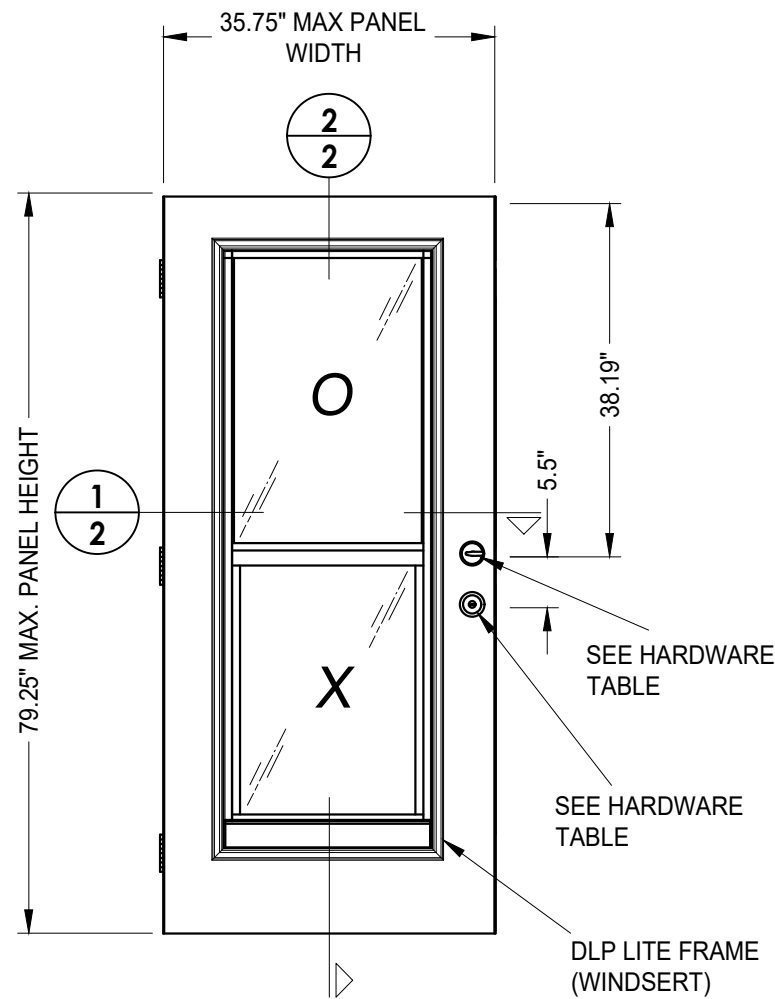
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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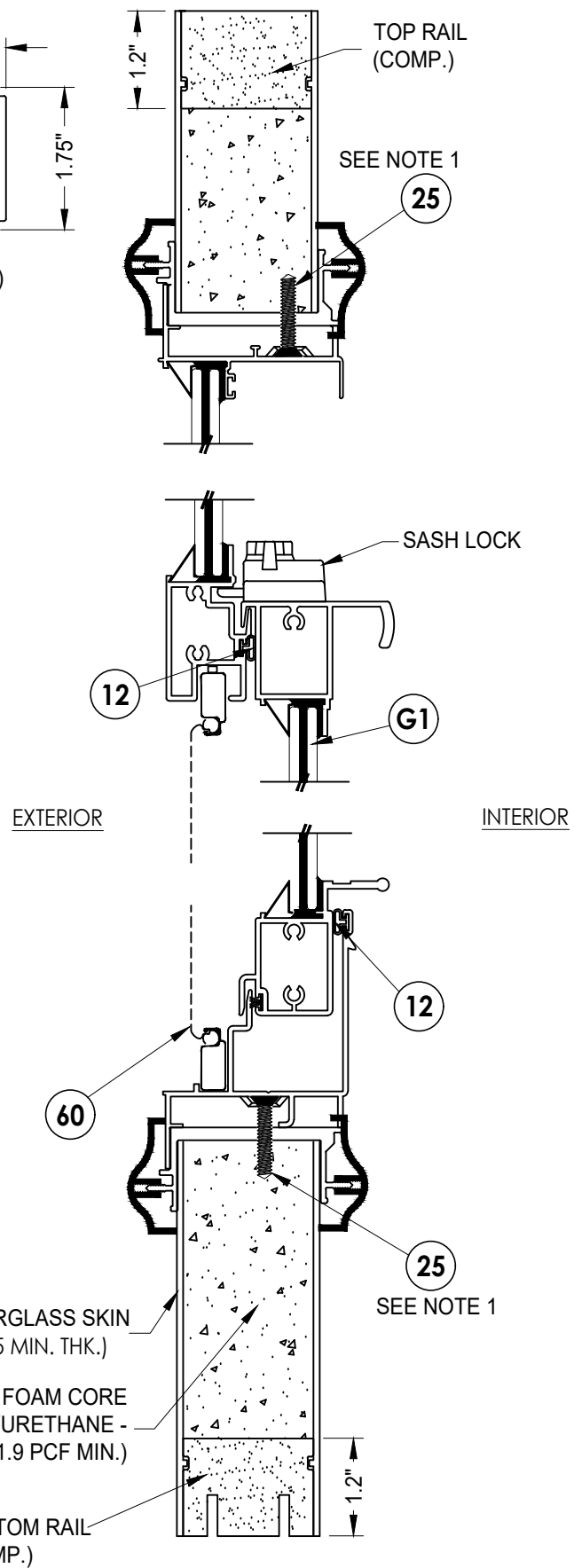
1
2 HORIZONTAL CROSS SECTION



40 DOOR PANEL
Plastpro

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	Knob:	Kwikset Series
	Deadbolt:	Kwikset Series (660)
Yale	Lever:	YH Collection
	Deadbolt:	New Traditions (800 Series)
Schlage	Knob:	F-Series
	Deadbolt:	B60 / 62
Yale	Knob:	YH Collection
	Deadbolt:	YH 83

- NOTES:
- SMS Screw spacing at head and sill:
5" from each end & one at centerline (3 total).
 - SMS Screw spacing at jambs:
5" from each end & spaced @ 8 - 11" o.c. (7 total).



2
2 VERTICAL CROSS SECTION

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

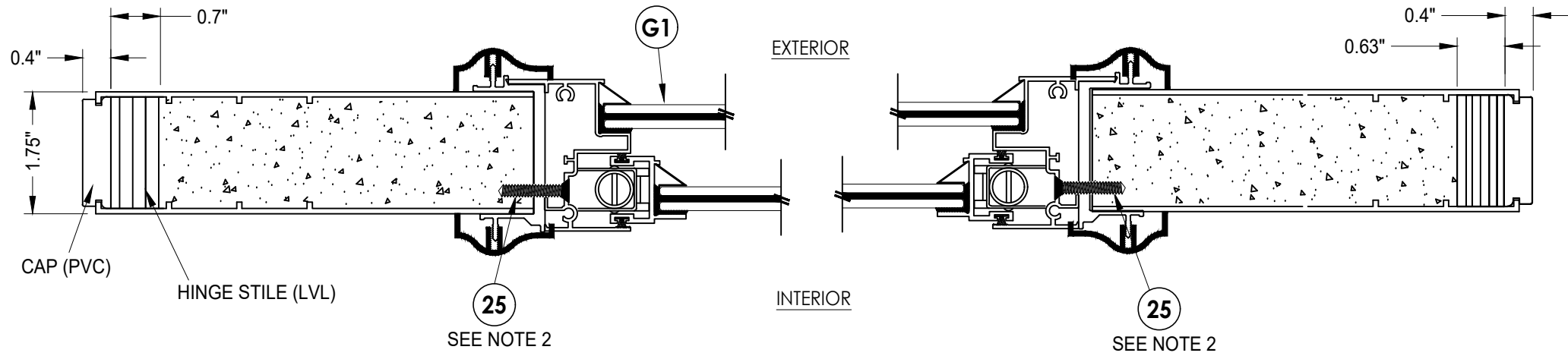
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	DLP WINDSERT
	DOOR PANEL DETAILS
PART OR ASSEMBLY:	

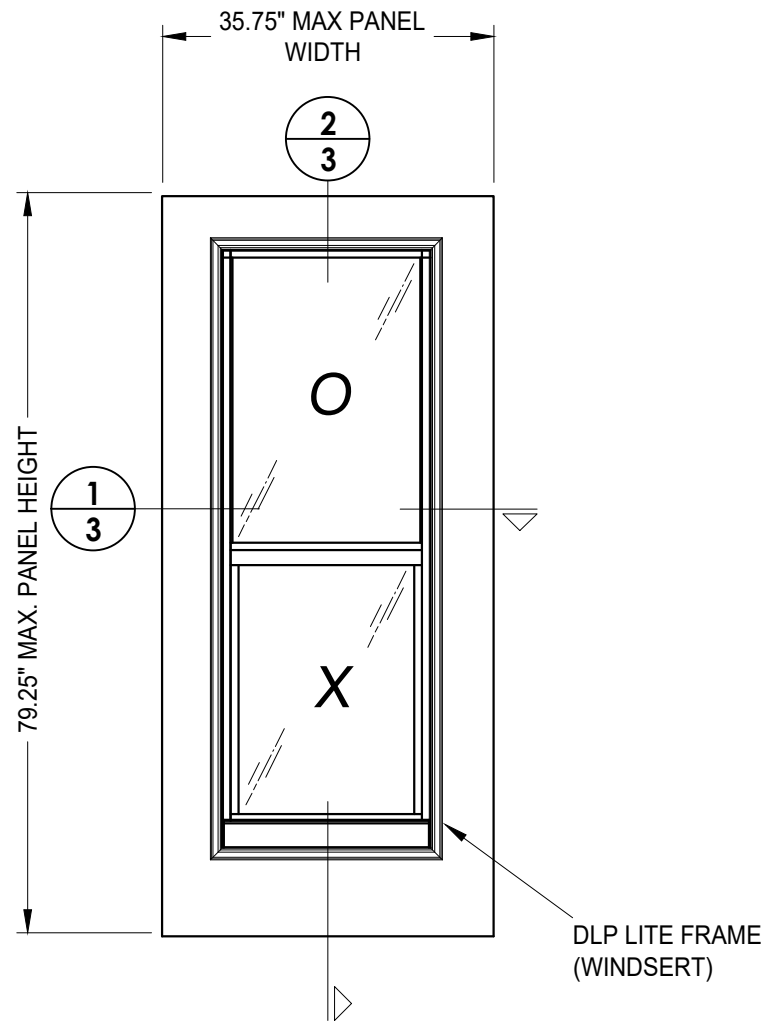
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		LFS	FBC	JK	BY
6	8/09/23	UPDATE TO 8TH ED. (2023)	FBC		
5	8/31/20	UPDATE TO 7TH ED. (2020)	FBC		
4	8/16/17	UPDATE TO 6TH ED. (2017)	FBC		
3	9/14/15	REVISED WINDSERT COMPONENTS			
2	3/18/15	UPDATE TO 5TH ED. (2014)	FBC		
1	9/28/11	UPDATED TO 2010 FBC			

DATE:	8/29/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14803.6
SHEET	2 OF 12

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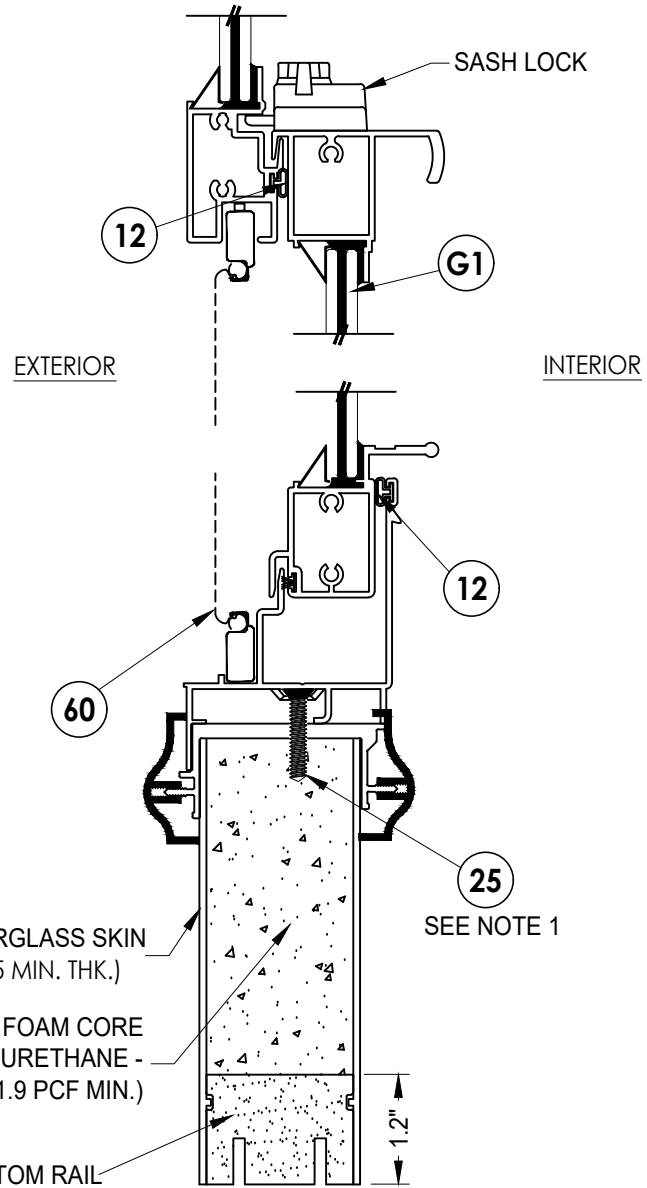
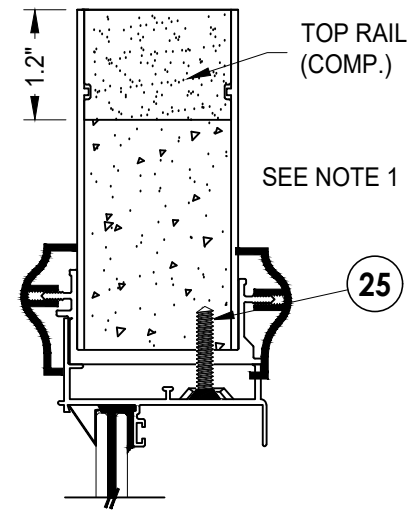
1
3 HORIZONTAL CROSS SECTION



50 SIDELITE PANEL
Plastpro

NOTES:

1. SMS Screw spacing at head and sill:
5" from each end & one at centerline (3 total).
2. SMS Screw spacing at jambs:
5" from each end & spaced @ 8 - 11" o.c. (7 total).



2
3 VERTICAL CROSS SECTION

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

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

PRODUCT:
DLP
WINDSERT
PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC
3	9/14/15	REVISED WINDSERT COMPONENTS
2	3/18/15	UPDATE TO 5TH ED. (2014) FBC
1	9/28/11	UPDATED TO 2010 FBC

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14803.6

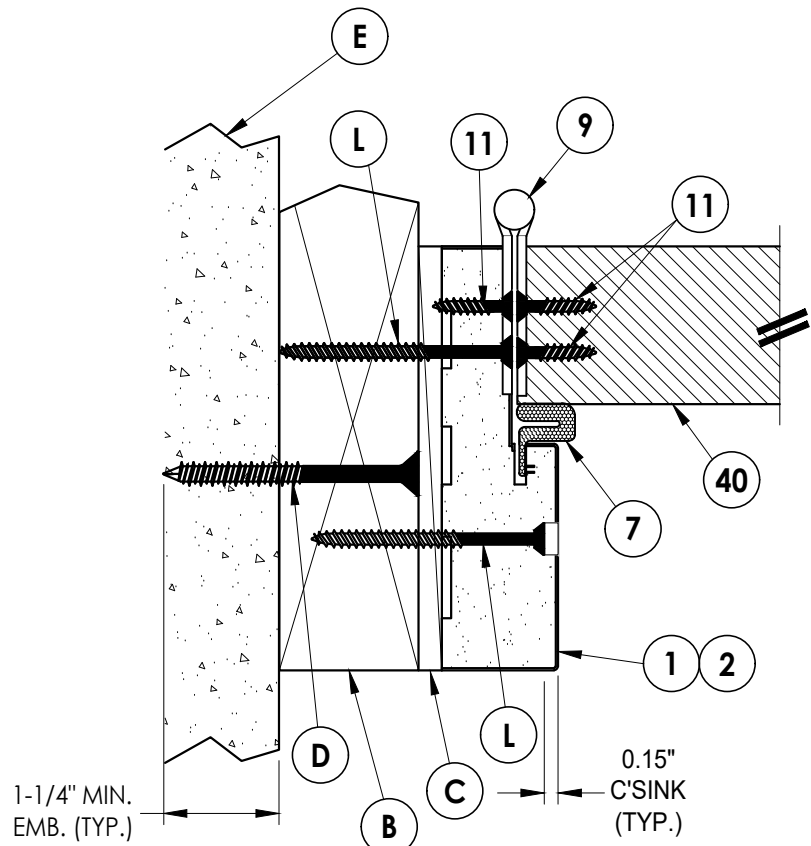
SHEET 3 OF 12

The diagram shows a four-unit window system. Each unit is a vertical rectangle divided into two horizontal sections. The top section contains a circle with the letter 'O' and the bottom section contains a circle with the letter 'X'. Diagonal dashed lines are drawn in each section. Annotations include:

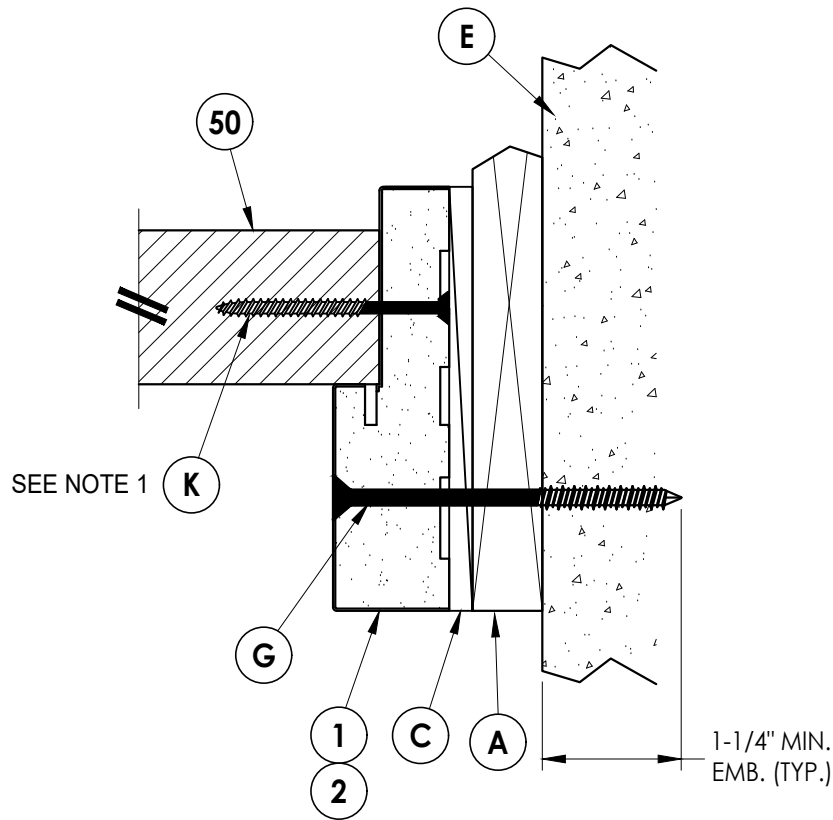
- Unit 1 (leftmost): A circle with $\frac{2}{6}$ is positioned to the right of the unit, with a line pointing to the horizontal divider.
- Unit 2: A circle with $\frac{1}{7}$ is positioned above the unit, and a circle with $\frac{2}{7}$ is positioned to the right of the unit, both with lines pointing to the horizontal divider.
- Unit 3: A circle with $\frac{3}{6}$ is positioned to the right of the unit, with a line pointing to the horizontal divider. A circle with $\frac{3}{7}$ is positioned below the unit, with a line pointing to the bottom edge.
- Unit 4 (rightmost): A circle with $\frac{1}{8}$ is positioned above the unit, and a circle with $\frac{2}{8}$ is positioned to the right of the unit, both with lines pointing to the horizontal divider. A circle with $\frac{3}{8}$ is positioned below the unit, with a line pointing to the bottom edge.
- A circle with $\frac{4}{6}$ is positioned to the right of the entire system, with a line pointing to the right edge of the fourth unit.

DATE: 8/29/11						DOCUMENTS PREPARED BY: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-14803.6							
SHEET	5	OF	12				
				6	8/09/23	UPDATE TO 8TH ED. (2023)	FBC
				5	8/31/20	UPDATE TO 7TH ED. (2020)	FBC
				4	8/16/17	UPDATE TO 6TH ED. (2017)	FBC
				3	9/14/15	REVISED WINDSERT COMPONENTS	JK
				2	3/28/15	UPDATE TO 5TH ED. (2014)	FBC
				1	9/28/11	UPDATED TO 2010 FBC	LFS
				NO.	DATE		BY
				REVISIONS			
				PART OR ASSEMBLY:			
				ELEVATIONS			
				DLP			
				WINDSERT			
				PRODUCT:			
				<i>R^gW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			

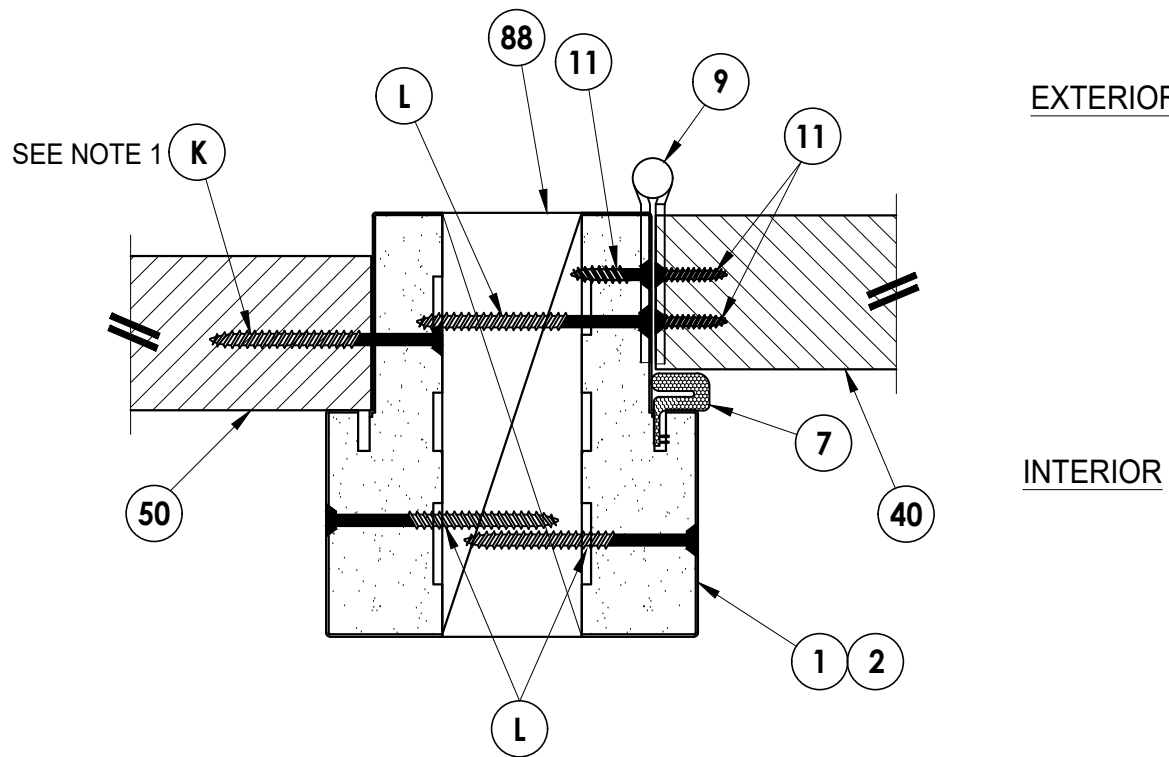
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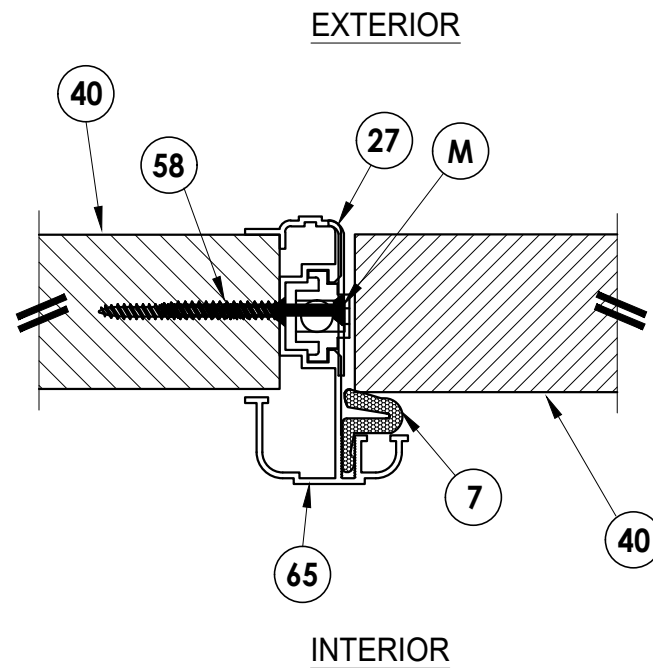
1
6 **HORIZONTAL CROSS SECTION**



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



2
6 **HORIZONTAL CROSS SECTION**

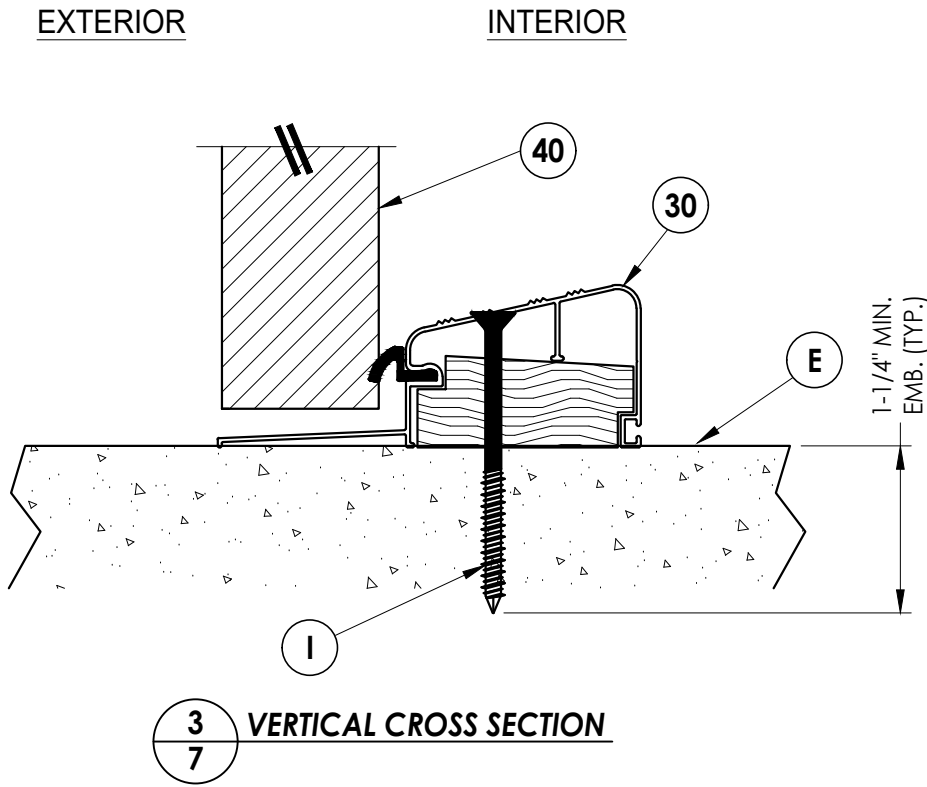
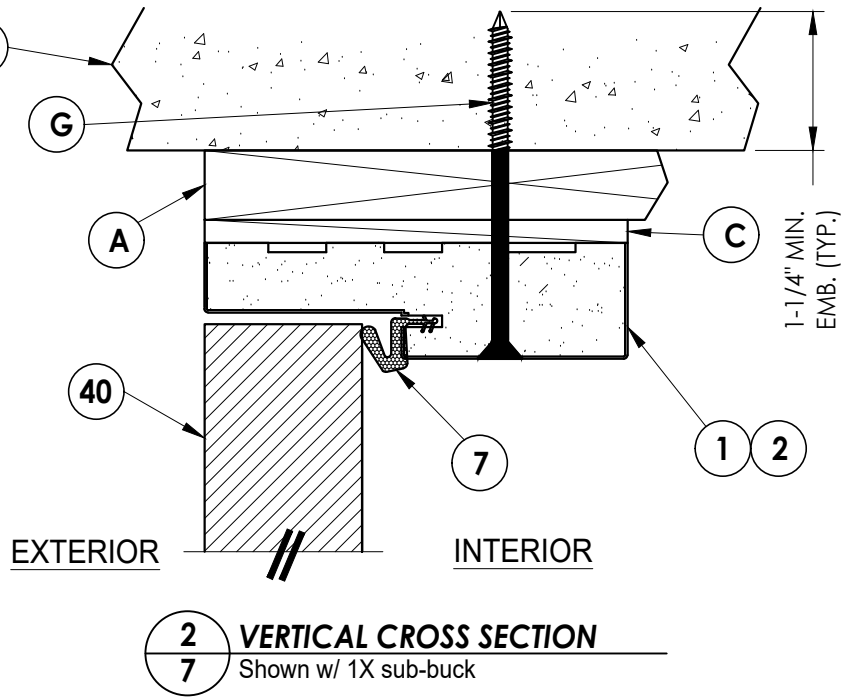
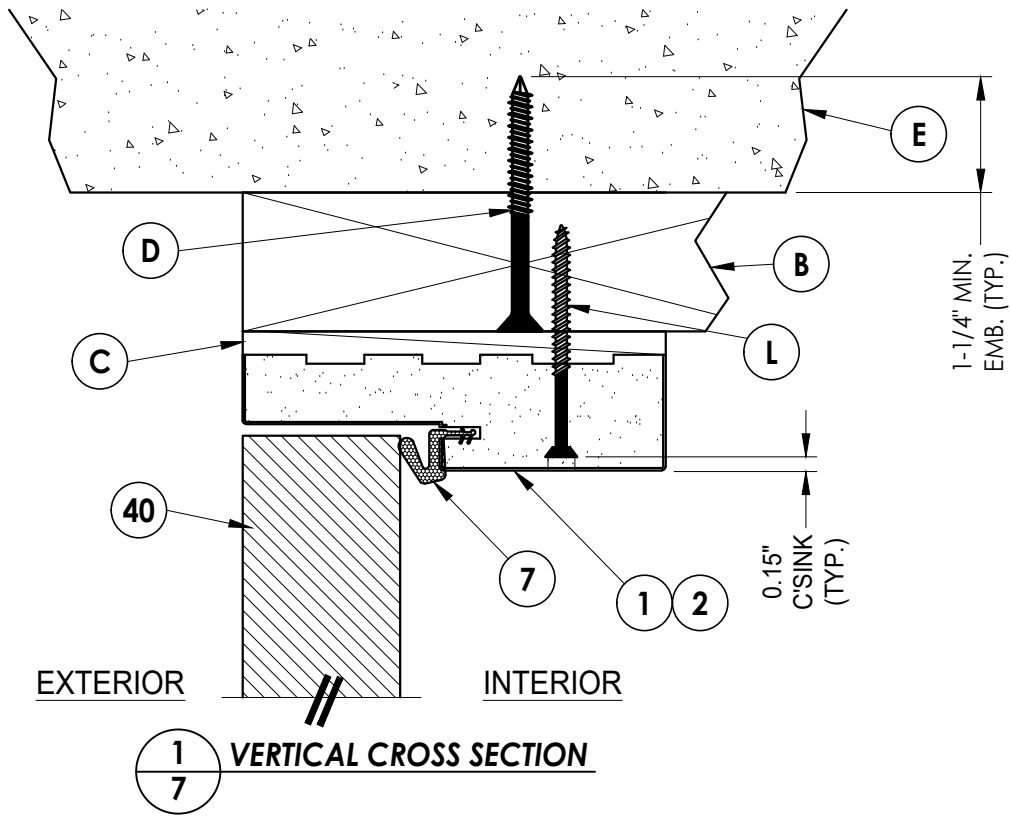


3
6 **HORIZONTAL CROSS SECTION**

NOTE:

1. Spacing for item K: 6" from ends and 7 more equally spaced along sidelite (9 total).

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: DLP WINDSERT		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC	LFS
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC	JK
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NO.	DATE		BY
REVISIONS			
DATE: 8/29/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14803.6			
SHEET 6 OF 12			



6	8/09/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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4	8/16/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	9/14/15	REVISED WINDSERT COMPONENTS	JK
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1	9/28/11	UPDATED TO 2010 FBC	LFS
NO.	DATE		BY
REVISIONS			

DATE: 8/29/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14803.6
SHEET 7 OF 12

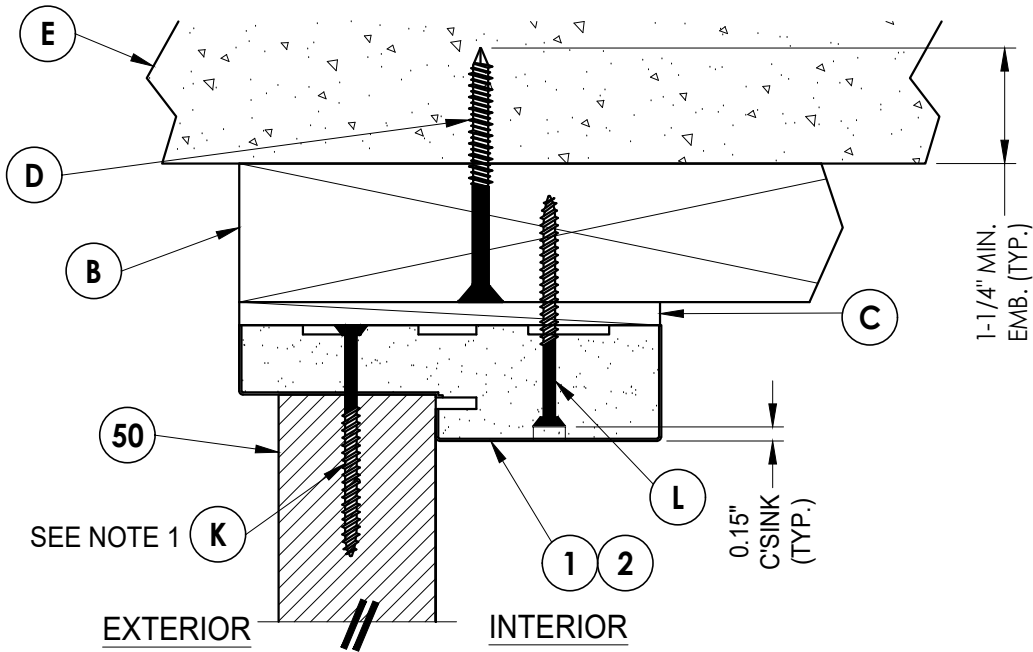
PRODUCT: DLP WINDSERT
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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

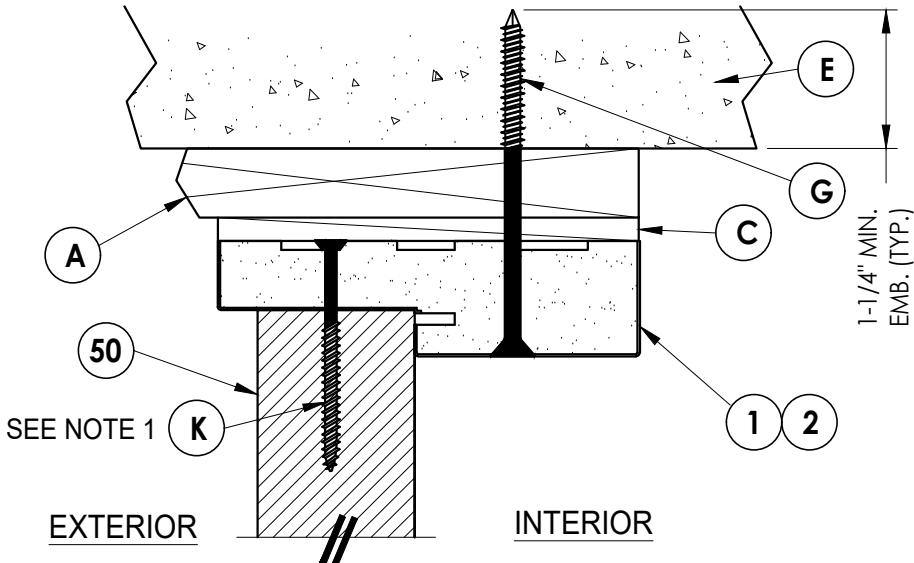
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NOTE

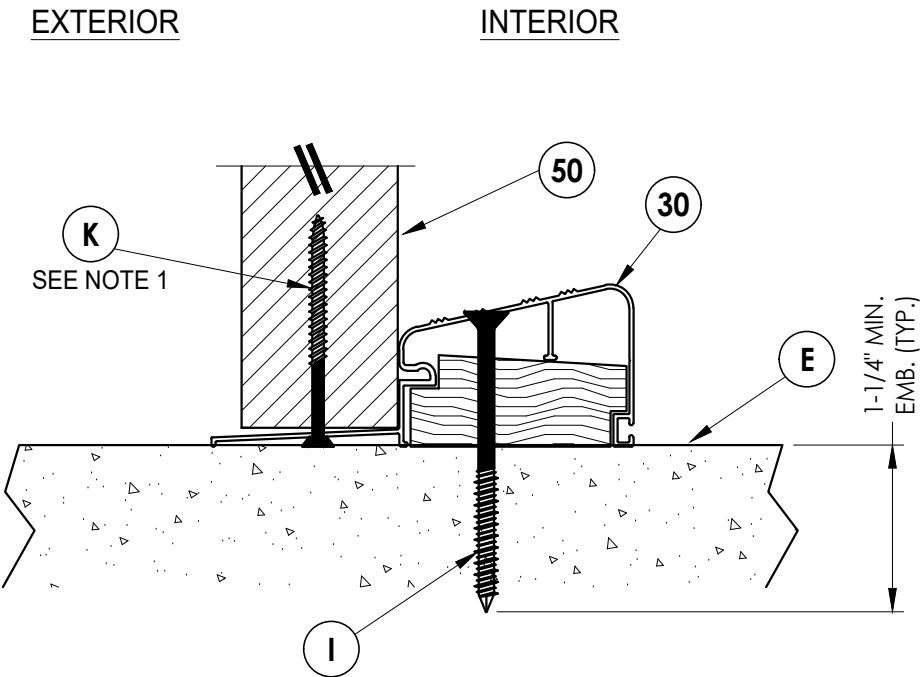
1. Spacing for item K:
6" from each end
and at centerline.



1
8 VERTICAL CROSS SECTION



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



3
8 VERTICAL CROSS SECTION

Documents Prepared By:
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P.E. No. 43409

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

PRODUCT:

DLP
WINDSERT

PART OR ASSEMBLY:

VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC
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1	9/28/11	UPDATED TO 2010 FBC

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

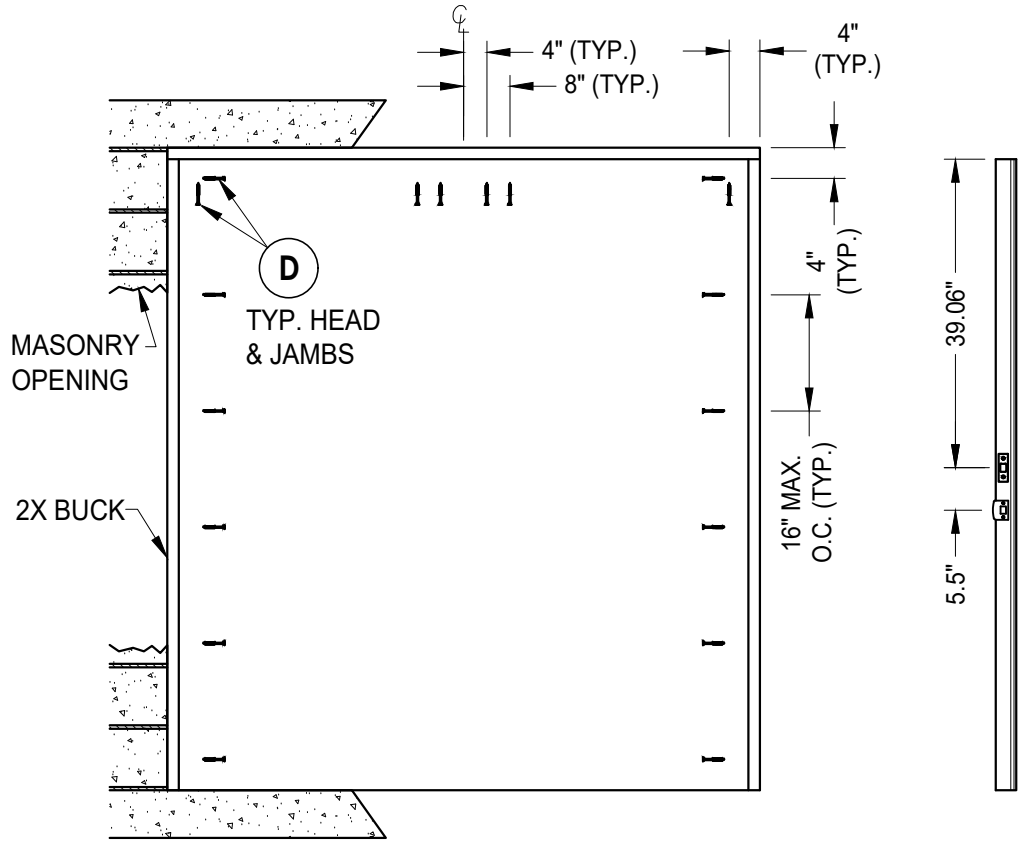
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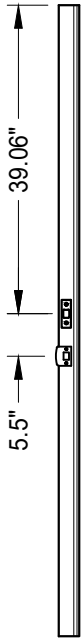
FL-14803.6

SHEET 8 OF 12

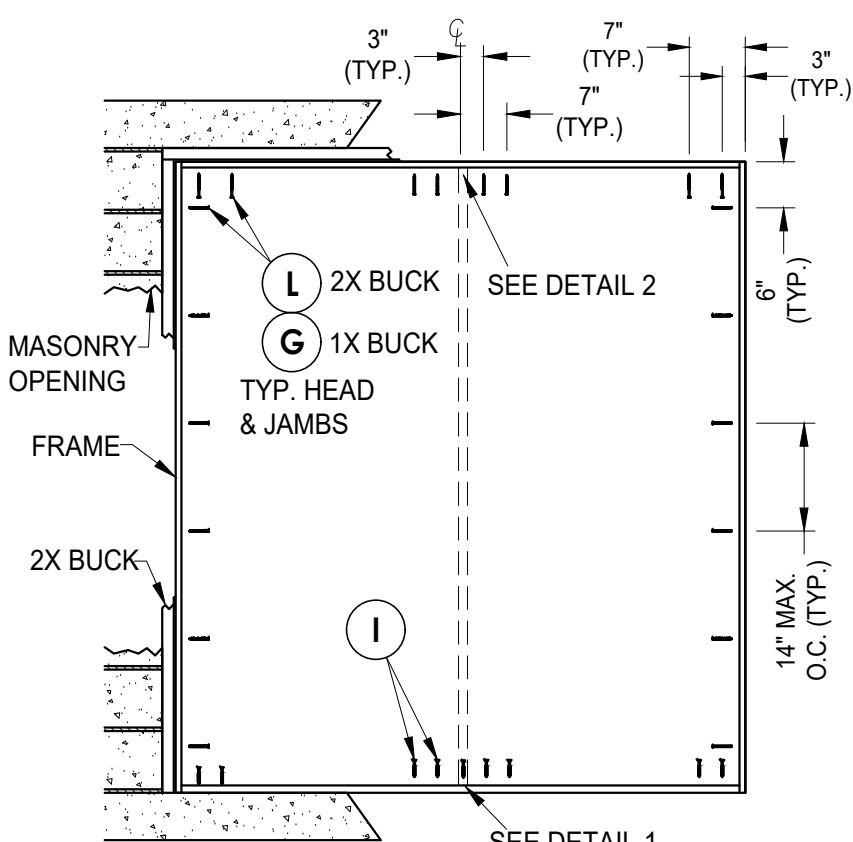
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BUCK ANCHORING
XX

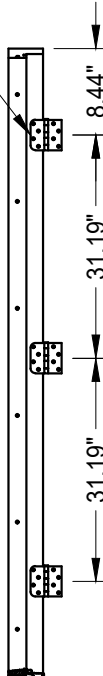


ASTRAGAL STRIKE JAMB

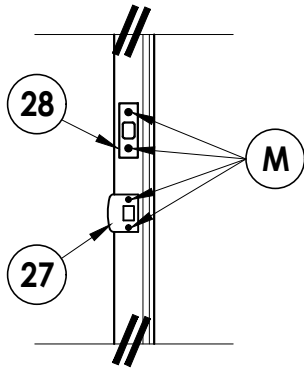


FRAME ANCHORING
XX

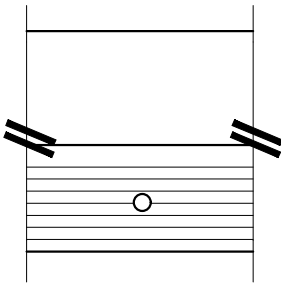
SEE HINGE
DETAIL (TYP.)



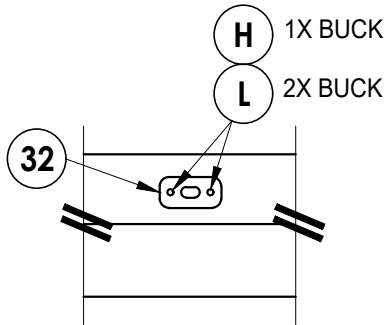
HINGE JAMB



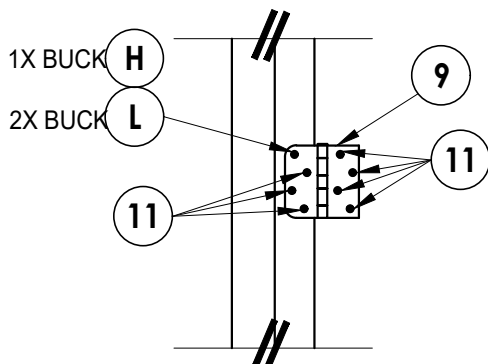
LATCH & DEAD BOLT DETAIL



DETAIL 1
Astragal throw bolts
at the threshold
(Outswing)



DETAIL 2
Attach astragal throw bolt
strike plate to frame
as shown



HINGE DETAIL
Outswing

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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.
- 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 ULTRA-CON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

- 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:
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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:

DLP
WINDSERT

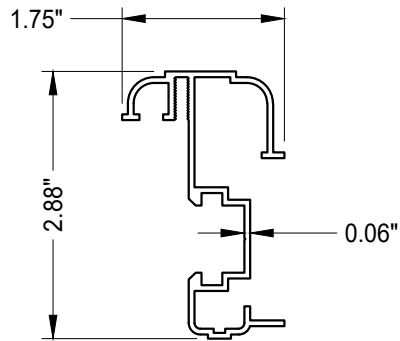
PART OR ASSEMBLY:

BUCK AND FRAME ANCHORING
(XX)

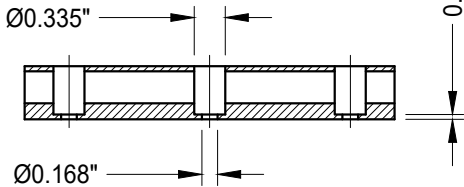
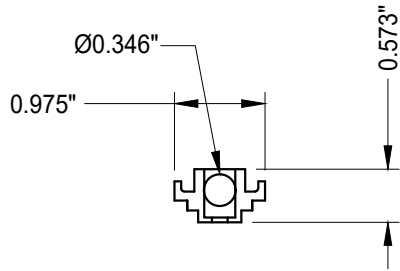
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DATE:	8/29/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14803.6
SHEET	9 OF 12

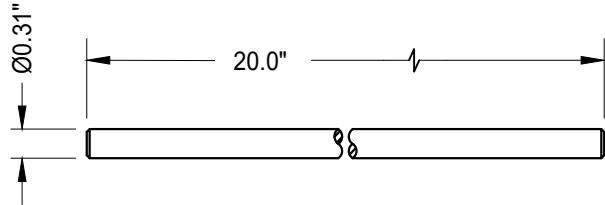
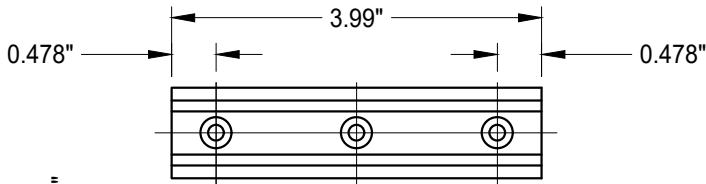
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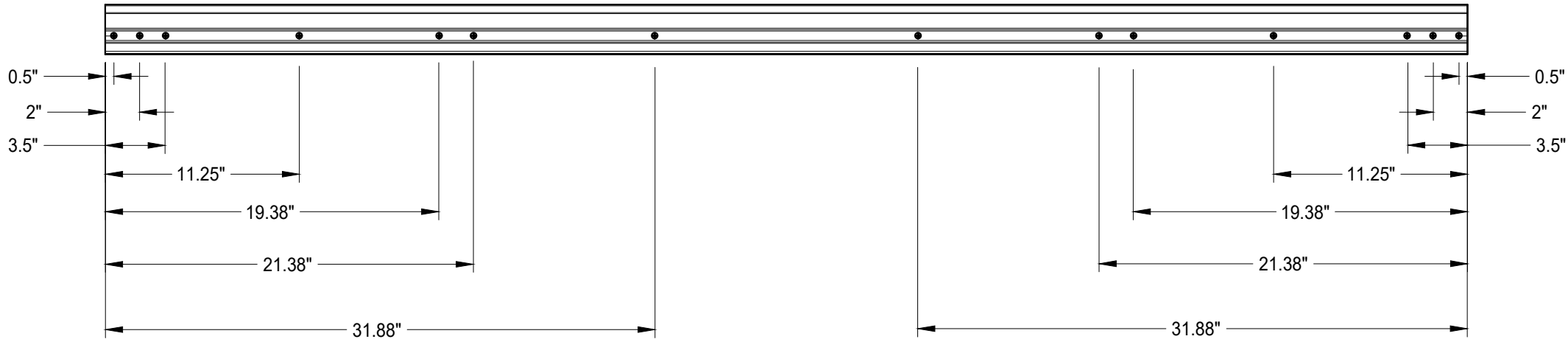
65 ASTRAGAL
DLP



66 CONCEALED STIFFENER



67 SLIDE BOLT ROD
Typ. top & bottom
of astragal
top through 1.98"
bottom through 1.98"



ASTRAGAL SCREW LOCATIONS

NO.	DATE	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC
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NO.	DATE	BY

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14803.6

SHEET 11 OF 12

PRODUCT:

DLP
WINDSERT

PART OR ASSEMBLY:

ASTRAGAL DETAIL

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

RW

BUILDING CONSULTANTS, INC.

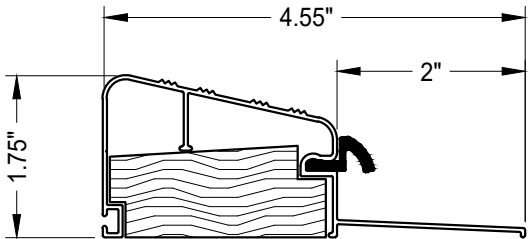
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

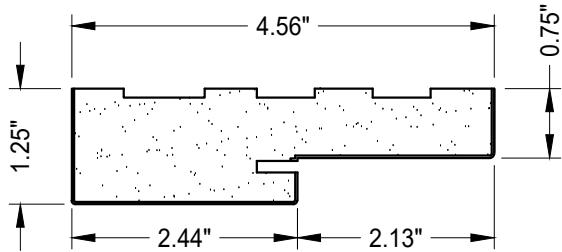
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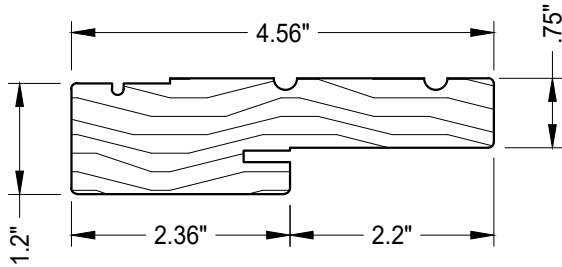
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	3/16" x 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
I	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#9 X 2-1/2" PFH WOOD SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	#8 X 1-1/2" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	COMP. / VINYL
2	FINGER JOINTED PINE FRAME	WOOD
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
12	BULB VINYL WEATHERSTRIP	VINYL
25	#12 X 1" PFH SELF DRILLING SMS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
30	OUTSWING THRESHOLD	ALUM/WOOD
32	ASTRAGAL STRIKE PLATE	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
58	#8 X 2" PFH WS	STEEL
60	SECURITY SCREEN (ALUM 6063-T6) - OPTIONAL	ALUM / SS
65	DLP ASTRAGAL	ALUM
66	CONCEALED STIFFENER	ALUM
67	SLIDE BOLT ROD	ALUM
88	2X REINFORCEMENT SG >= 0.55	WOOD



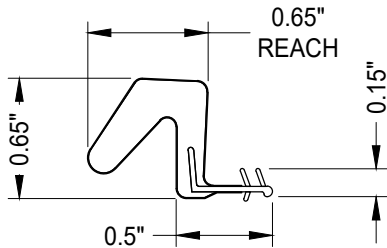
30 OUTSWING THRESHOLD
DLP (QOSR)



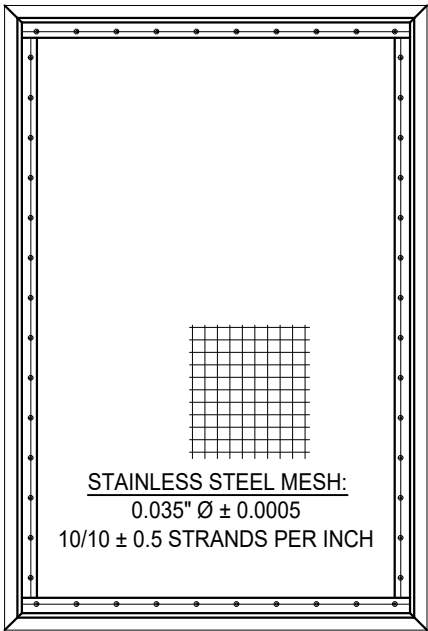
1 POLY FIBER JAMB
Plastpro



2 WOOD JAMB



7 WEATHERSTRIP
Endura Force 5



60 SECURITY SCREEN
ALUM (6063-T6)

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:		DLP WINDSERT	
PART OR ASSEMBLY:		BILL OF MATERIALS AND COMPONENTS	
6	8/09/23	UPDATE TO 8TH ED. (2023)	FBC
5	8/31/20	UPDATE TO 7TH ED. (2020)	FBC
4	8/16/17	UPDATE TO 6TH ED. (2017)	FBC
3	9/14/15	REVISED WINDSERT COMPONENTS	JK
2	3/28/15	UPDATE TO 5TH ED. (2014)	FBC
1	9/28/11	UPDATED TO 2010 FBC	LFS
NO. DATE		REVISIONS	
DATE:		8/29/11	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-14803.6	
SHEET		12 OF 12	