

Z:\2023 FBC Drawings\Novatech Doors, Inc\FL-20873 R5\FL-20873.13-14.dwg

Novatech®

OPAQUE STEEL DOUBLE DOOR
w/ or w/out SIDELITES

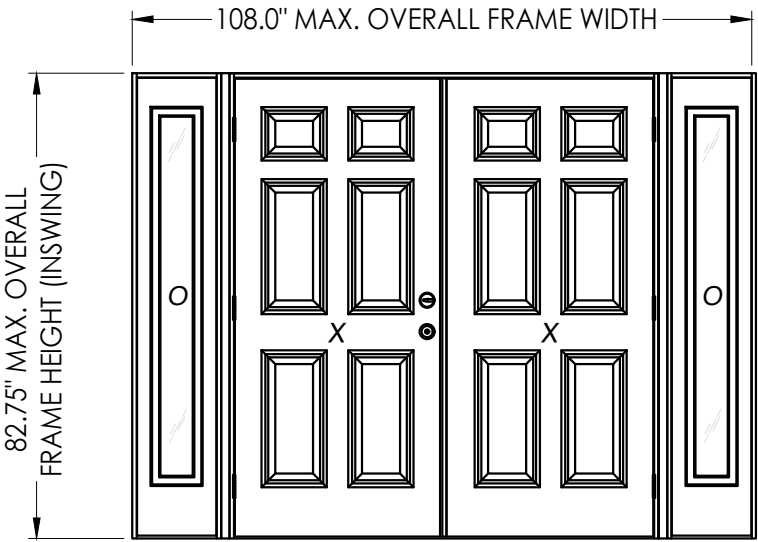
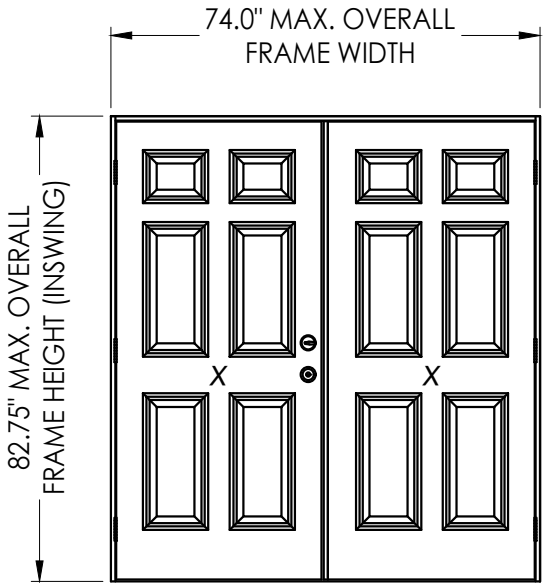
INSWING
"IMPACT"

GENERAL NOTES

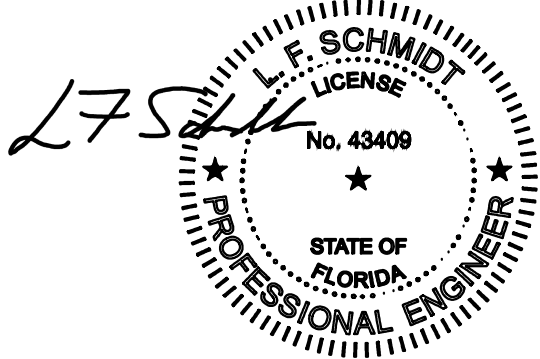
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product 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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
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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SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
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7	Buck Anchoring
8	Frame Anchoring & Hardware Details
9	Bill of Materials & Components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
XX	74.0" x 82.75"	+50.0	-50.0
OXXO	108.0" x 82.75"	+50.0	-50.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.14 11:54:19 -04'00'

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

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

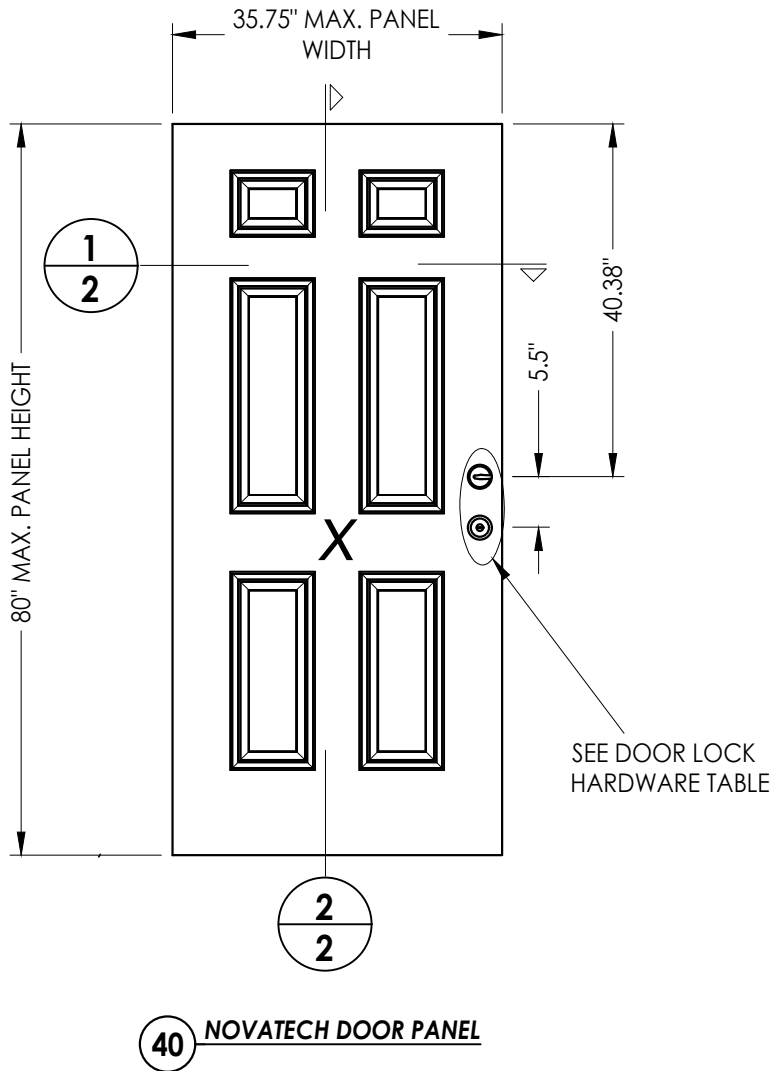
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

RW

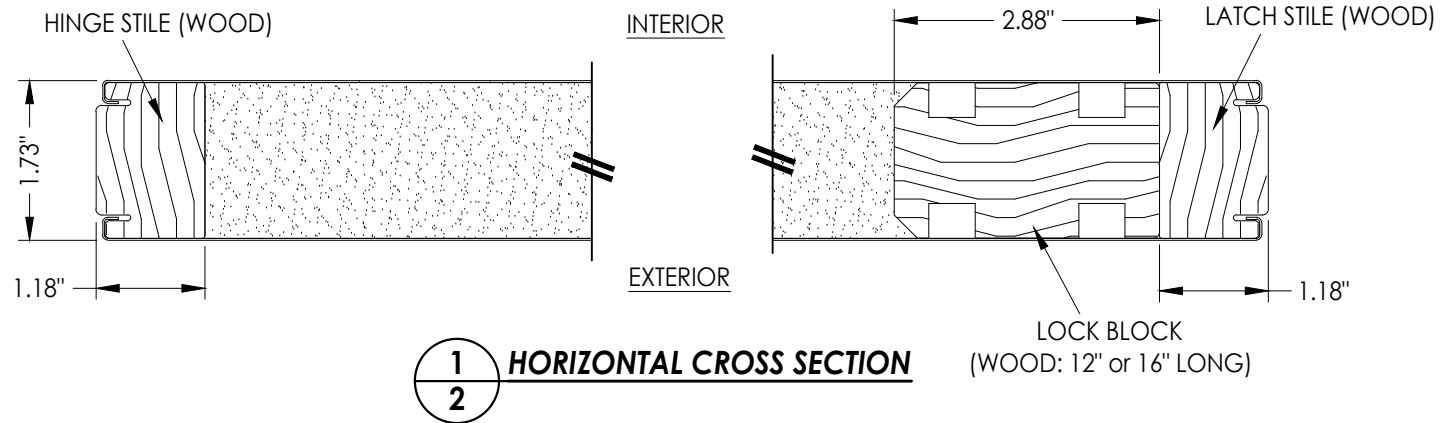
PRODUCT: NOVATECH STEEL DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
3	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/05/17	UPDATE TO 6th ED. (2017) FBC JK

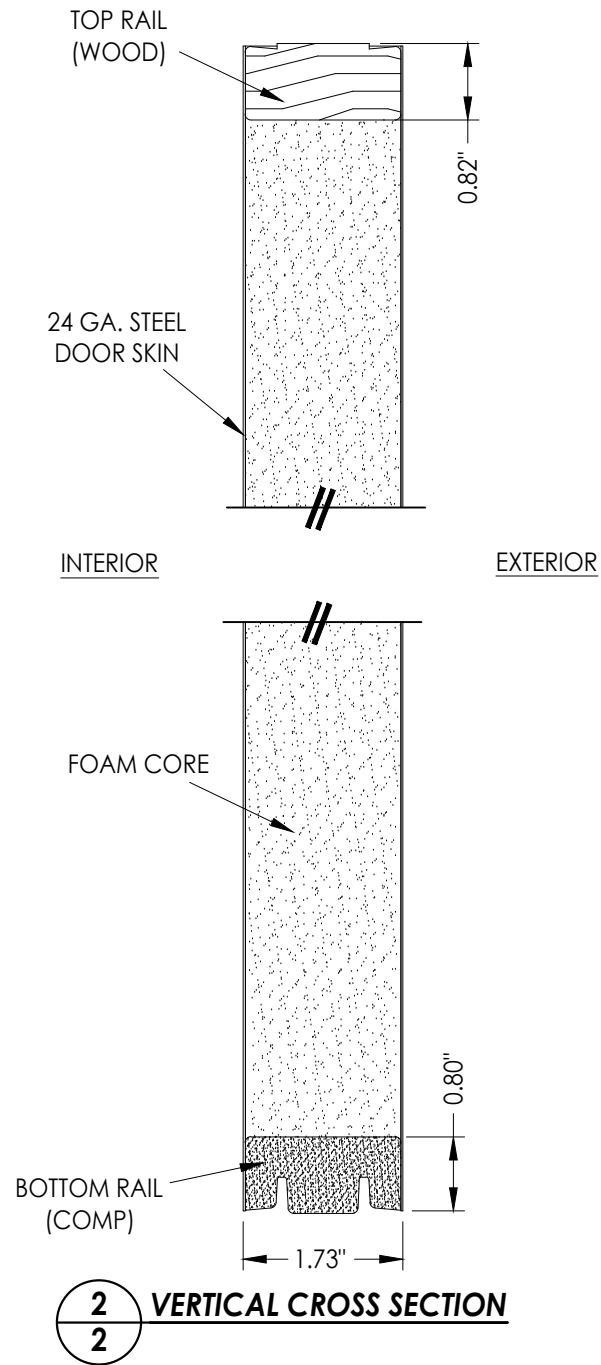
DATE: 8/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20873.14
SHEET 1 OF 9



DOOR SKIN: 24 GA. STEEL (0.021" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (2.0 PCF MIN.)

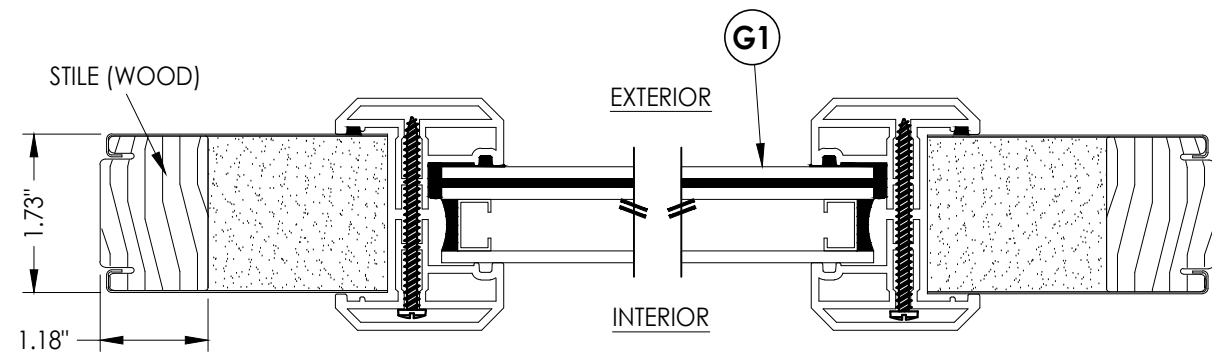


DOOR LOCK HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)

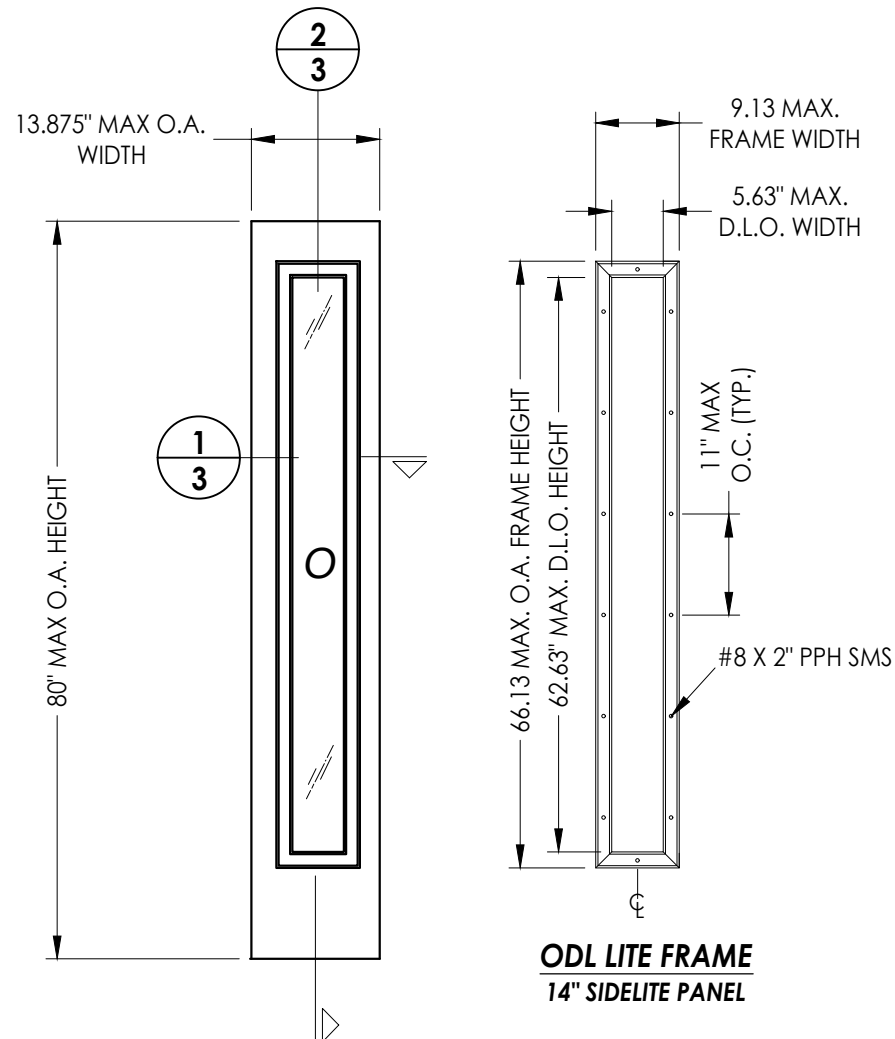
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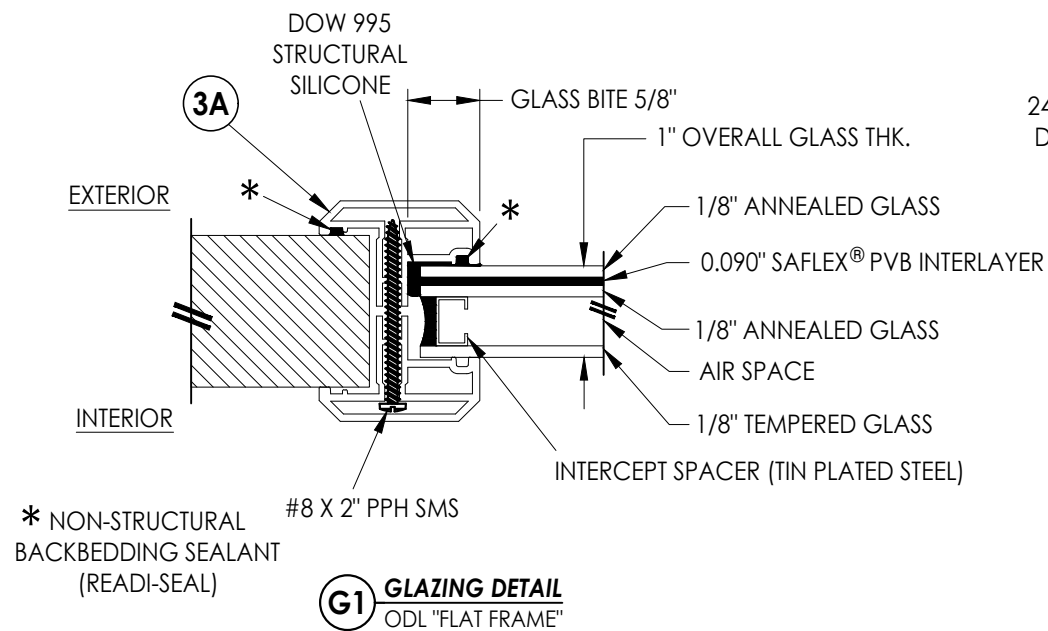
1 **HORIZONTAL CROSS SECTION**
3



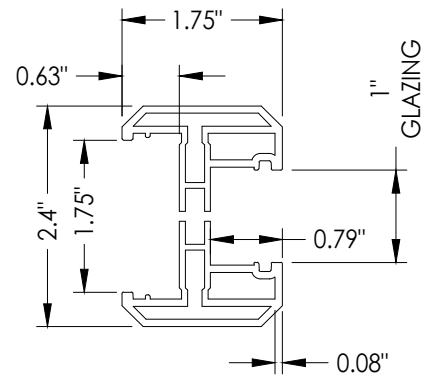
ODL LITE FRAME
14" SIDELITE PANEL

50 SIDELITE PANEL

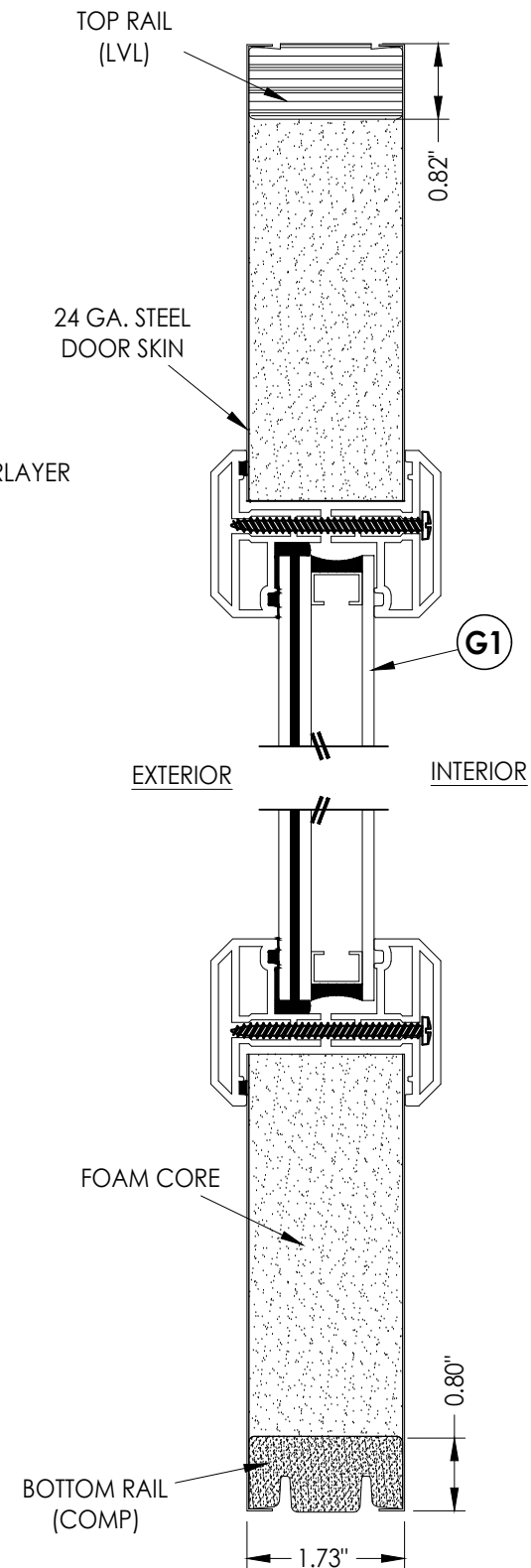
SIDELITE SKIN: 24 GA. STEEL (0.021" MIN. THICKNESS, $F_y = 26,800$ PSI MIN.)
CORE MATERIAL: POLYURETHANE FOAM (2.0 PCF MIN.)



G1 GLAZING DETAIL
ODL "FLAT FRAME"



3A **ODL LITE FRAME**
"FLAT FRAME" PROFILE
(6063-T5 ALUM)



2 VERTICAL CROSS SECTION

REVISIONS
BY

No.	DATE	
3	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/05/17	UPDATE TO 6th ED. (2017) FBC JK

DATE: 8/14/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20873.14

SHEET 3 OF 9

Documents Prepared By:
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This technical drawing illustrates a four-panel door assembly. The door is divided into four rectangular panels by a central vertical mullion and side mullions. Each panel contains a recessed rectangular frame. The drawing includes several numbered callouts in circles:

- Callout 1:** Points to the top-left corner of the top-left panel.
- Callout 2:** Points to the top-right corner of the top-left panel.
- Callout 3:** Points to the top-left corner of the top-right panel.
- Callout 4:** Points to the top-right corner of the top-right panel.
- Callout 5:** Points to the top-left corner of the bottom-left panel.
- Callout 6:** Points to the top-right corner of the bottom-left panel.

Additional features include a central vertical mullion, side mullions, and a horizontal mullion. The drawing also shows a handle on the left side and a lock mechanism on the right side. The door is shown in a closed position, with the handle and lock mechanism visible on the right side.

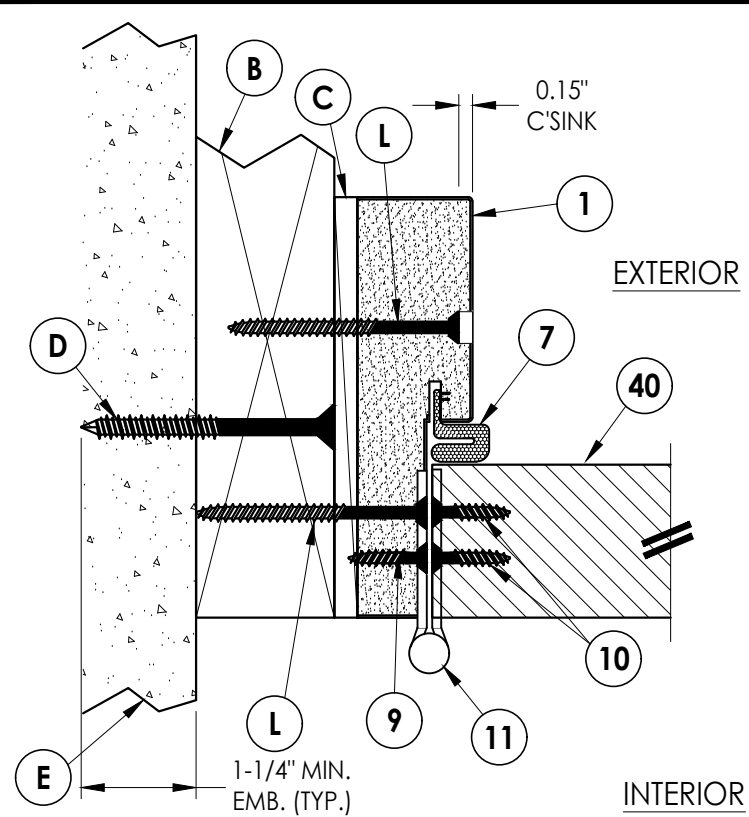
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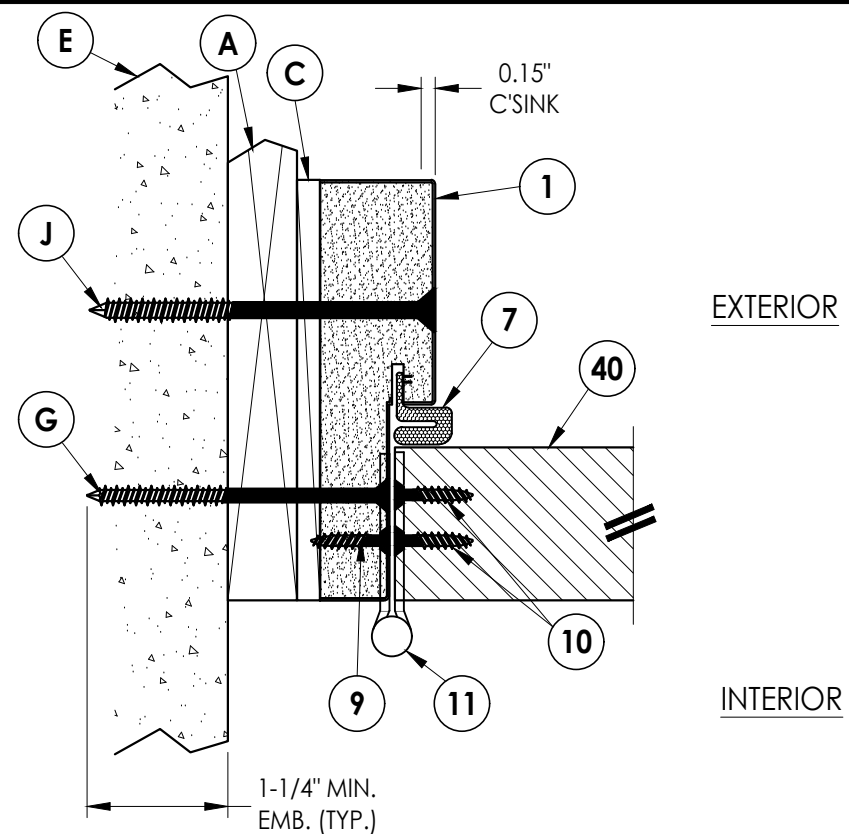
PART OR ASSEMBLY:
ELEVATIONS



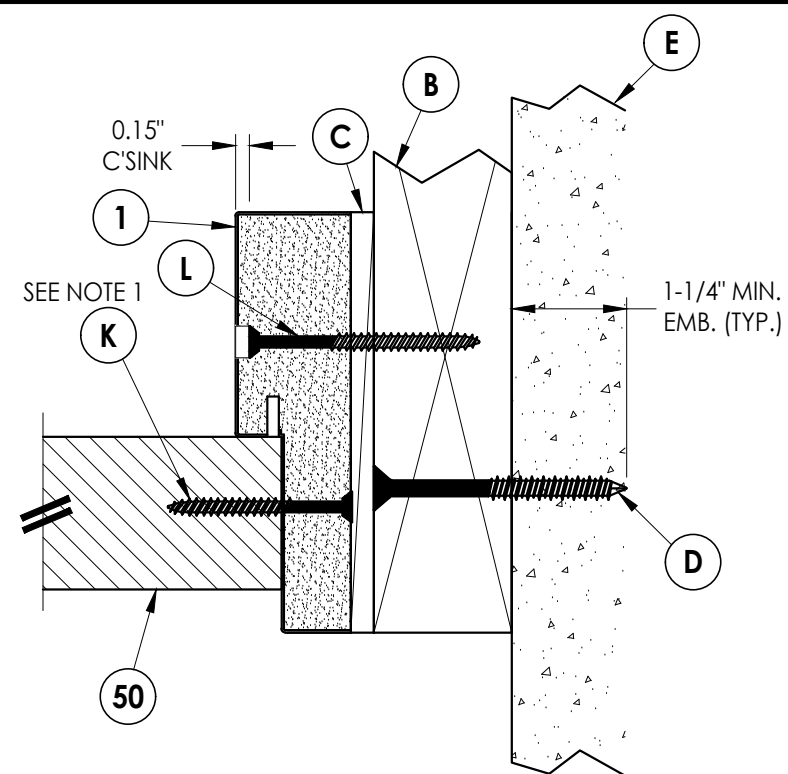
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1 **HORIZONTAL CROSS SECTION**
6 Inswing
2X Buck Construction

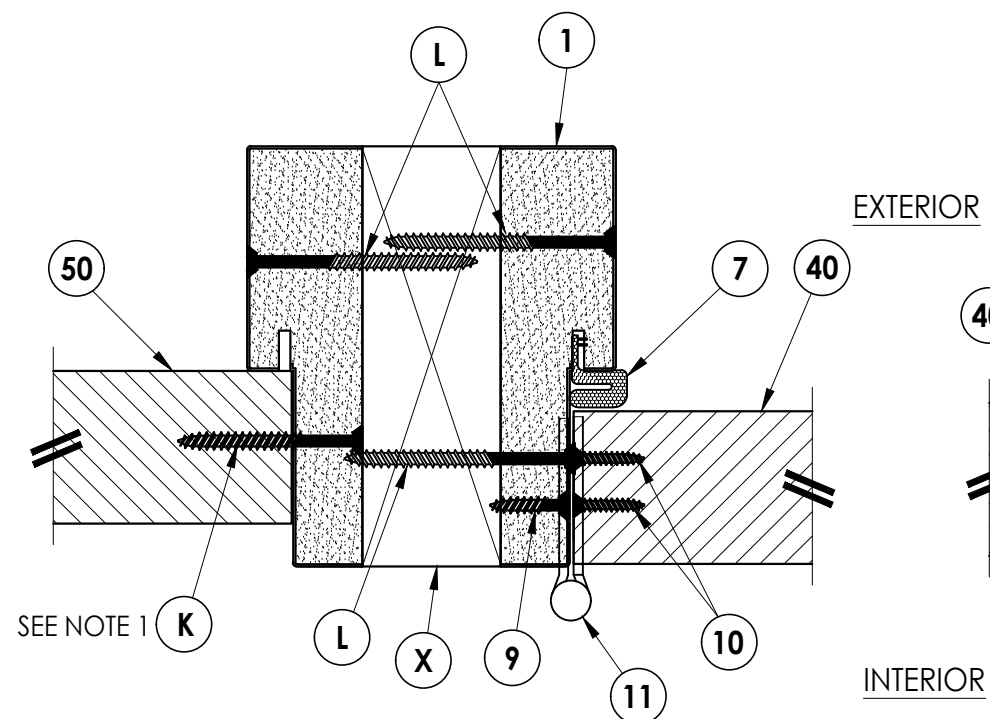


2 **HORIZONTAL CROSS SECTION**
6 Inswing
1X Buck Construction

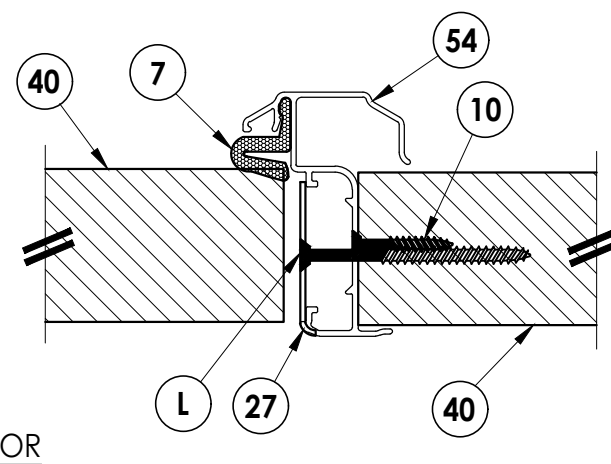


5 HORIZONTAL CROSS SECTION
6 Inswing
 2X Buck Construction

NOTE:
1. Spacing for sidelite screws (item K): Located 6" from each end and 4 more equally spaced (6) total.

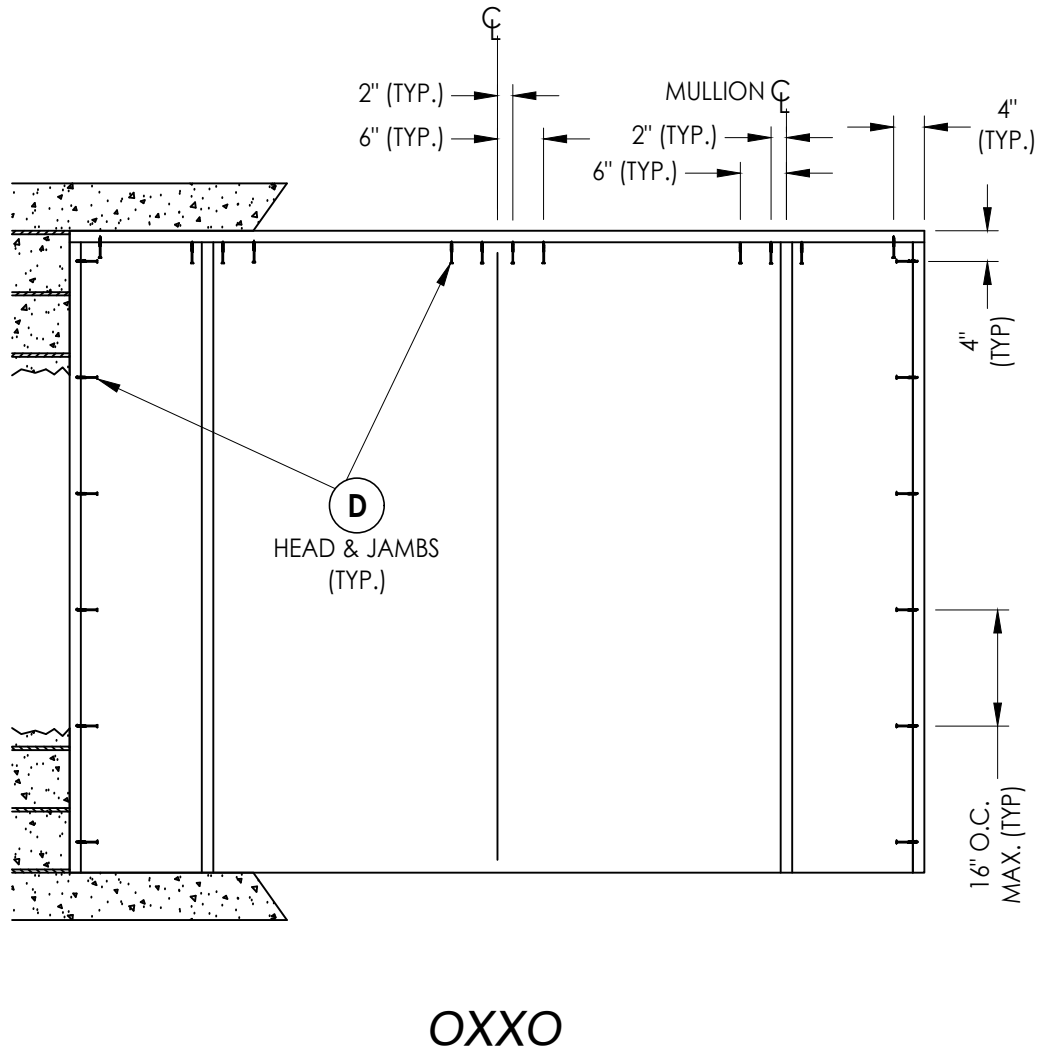
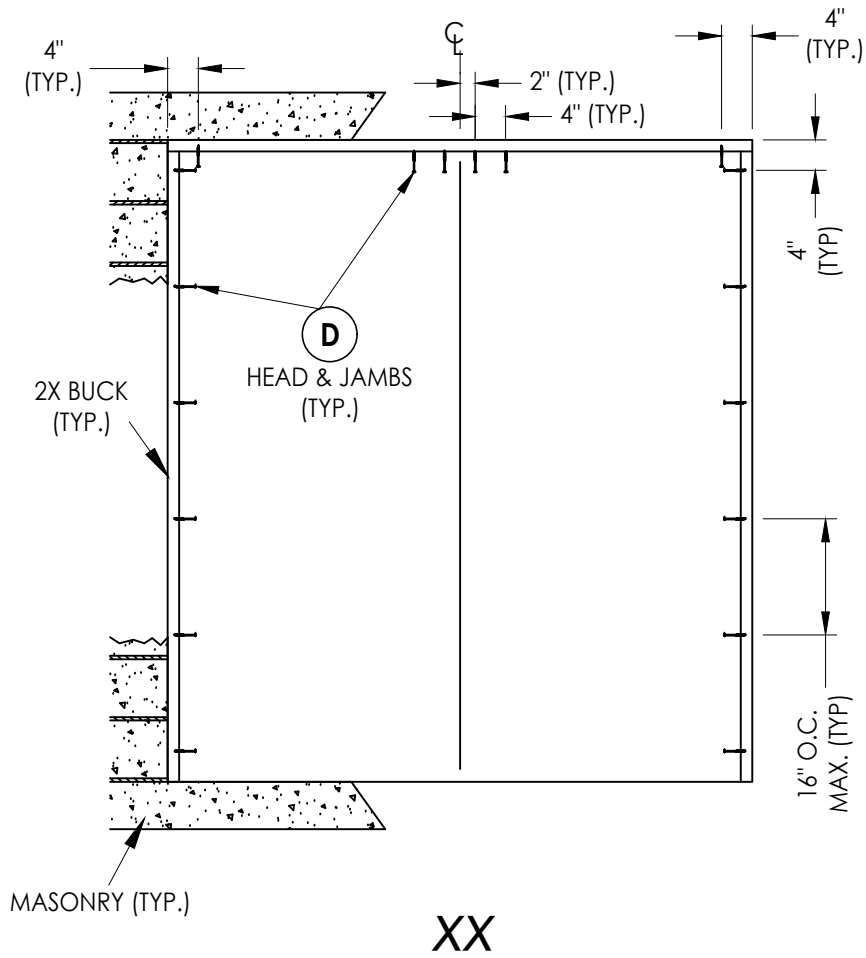


3 6 **HORIZONTAL CROSS SECTION**



4/6 HORIZONTAL CROSS SECTION

[illegible]



2X BUCK ANCHORING

DATE: 8/14/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20873.14

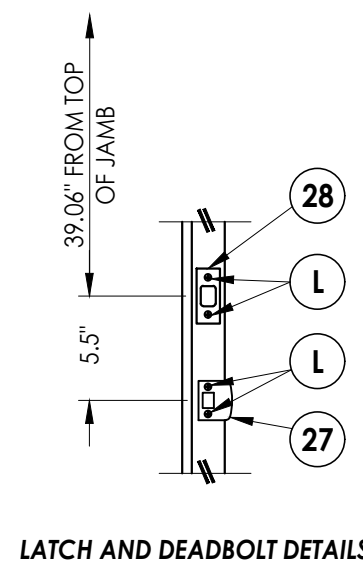
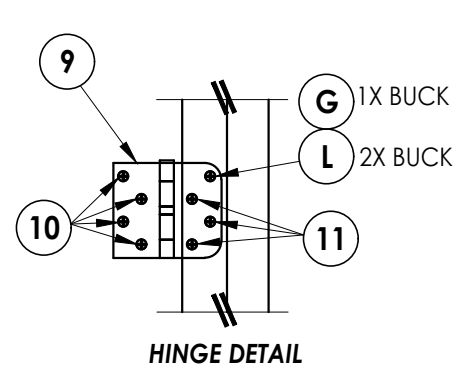
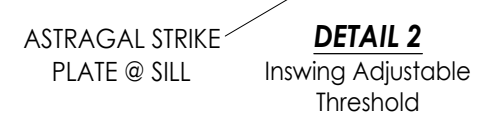
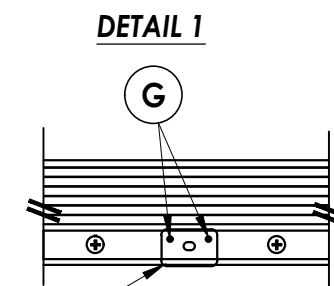
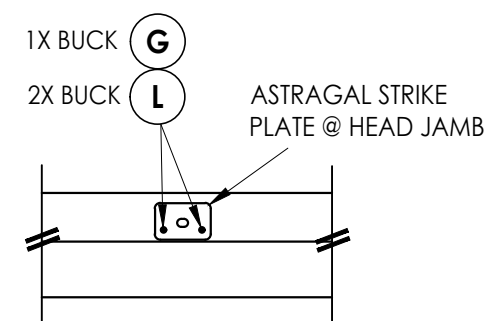
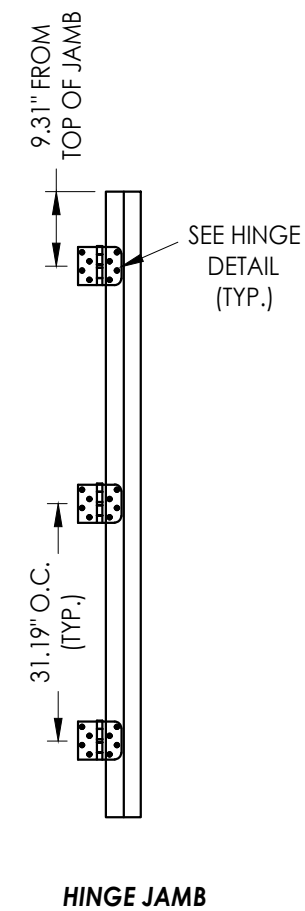
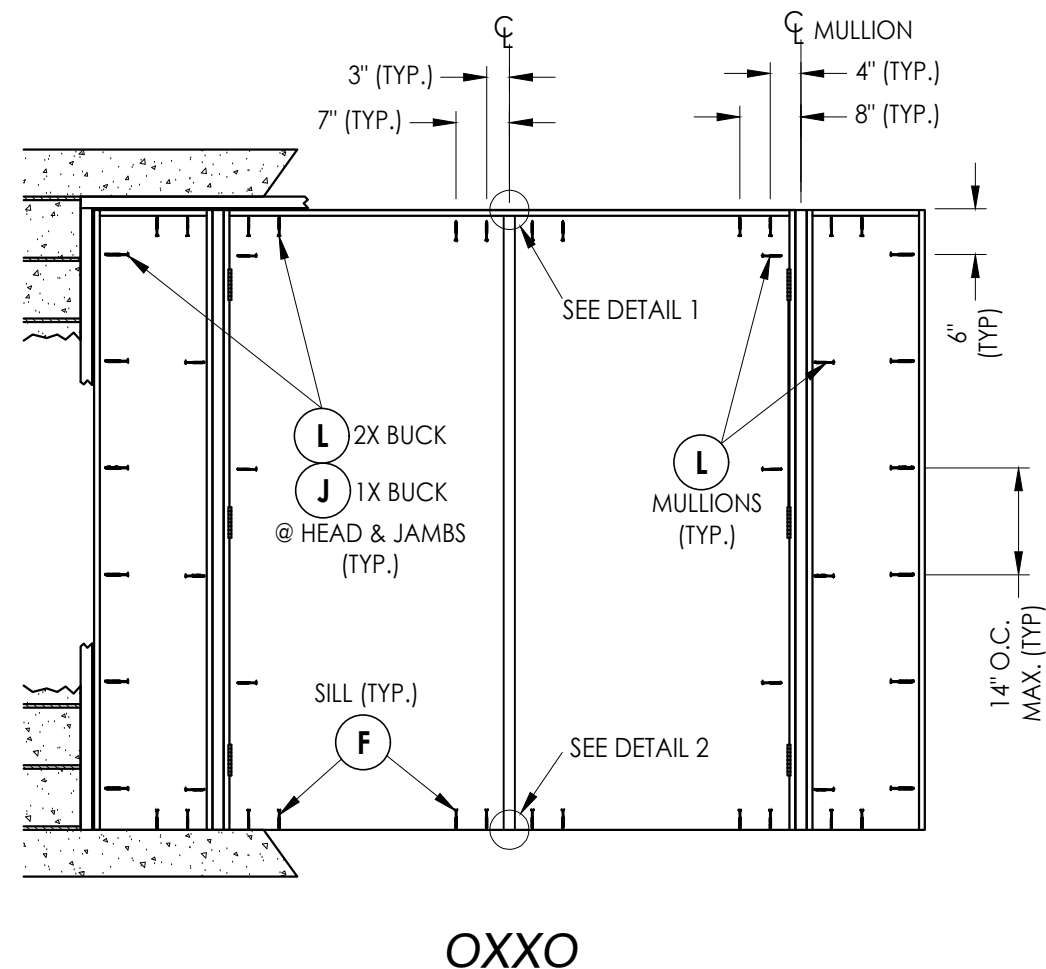
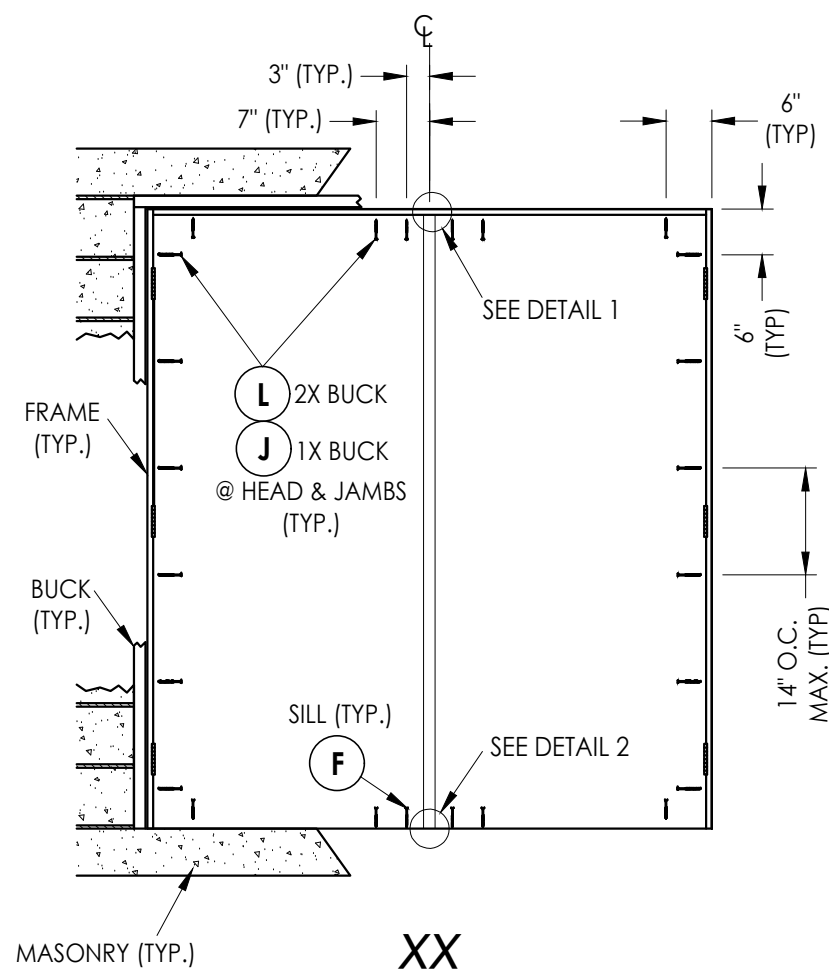
SHEET 7 OF 9

NO.	DATE	REVISIONS
3	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/05/17	UPDATE TO 6th ED. (2017) FBC JK

PRODUCT:	NOVATECH STEEL DOOR
PART OR ASSEMBLY:	BUCK ANCHORING

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



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 BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®+	1/4"	1-1/4"	1"	4"

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.

[illegible]

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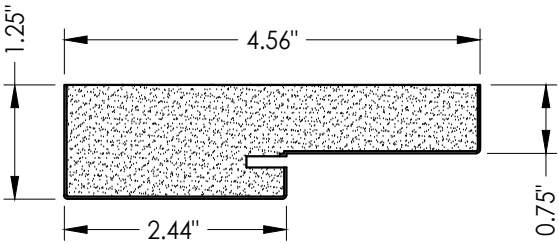
PRODUCT: NOVATECH
STEEL DOOR

FOR ASSEMBLY:
FRAME ANCHORING
& HARDWARE DETAILS

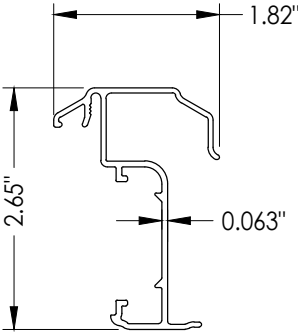
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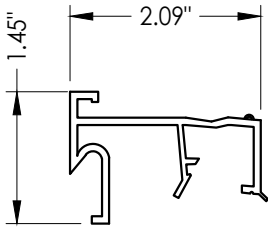
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	#12 X 2-1/2" PFH WOOD SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#10 X 2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	#8 X 2-1/2" PFH WOOD SCREW	STEEL
X	MULLION REINFORCEMENT (G >= 0.55)	WOOD
1	JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	#8 X 3/4" PFH WOOD SCREW	STEEL
10	#8 X 1" PFH WOOD SCREW	STEEL
11	4" X 4" BUTT HINGE	STEEL
27	LATCH STRIKE PLATE	ALUM/COMP
28	DEADBOLT STRIKE PLATE (SECURITY)	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	SIDELITE SPACER	PVC
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
54	ULTIMATE HURRICANE ASTRAGAL	ALUM



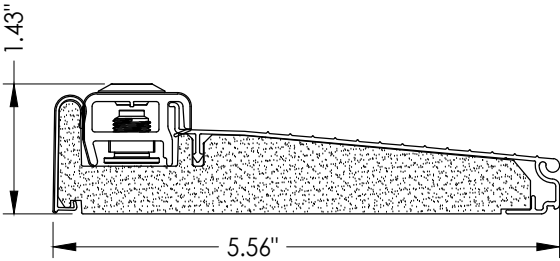
1 COMPOSITE JAMB



54 ULTIMATE HURRICANE ASTRAGAL
Endura



37 SIDELITE SPACER



36 INSWING THRESHOLD
Endura (ZAI5625FN)

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: NOVATECH STEEL DOOR		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	JK
		LFS	BY
		REVISIONS	
3	9/13/23	UPDATE TO 8TH ED. (2023)	FBC
2	10/01/20	UPDATE TO 7TH ED. (2020)	FBC
1	10/05/17	UPDATE TO 6th ED. (2017)	FBC
	NO.	DATE	
DATE: 8/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20873.14			
SHEET 9 OF 9			