

Z:\2023 FBC Drawings\Novatech Doors, Inc\FL-20873 R5\FL-20873.9-10.dwg

Novatech®

GLAZED STEEL DOUBLE DOOR w/ or w/out SIDELITES

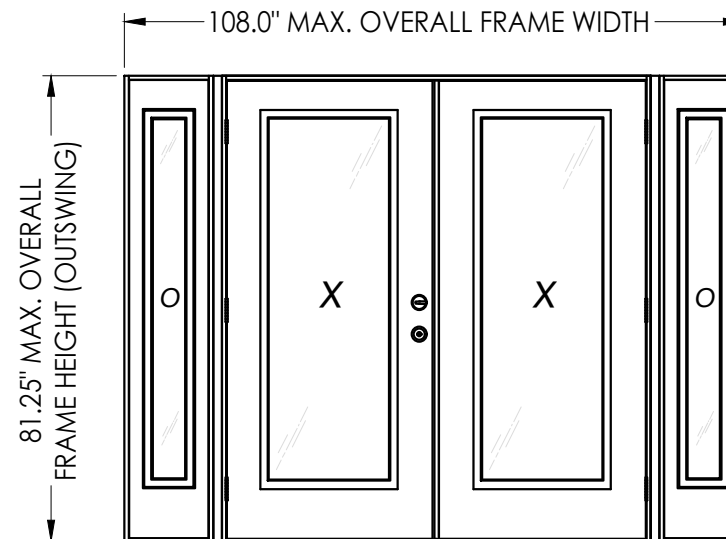
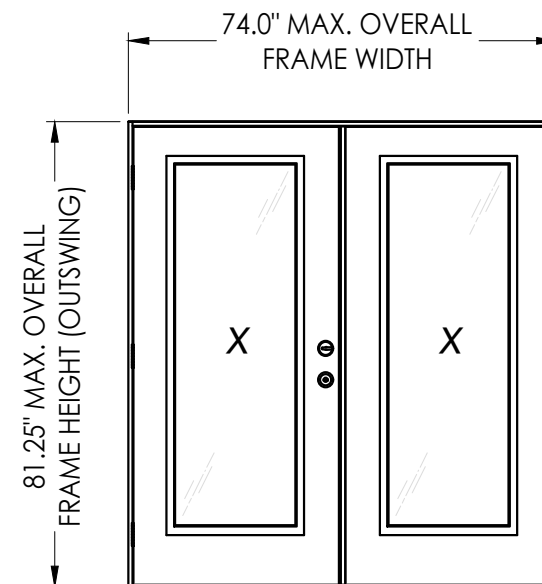
OUTSWING
"IMPACT"

GENERAL NOTES

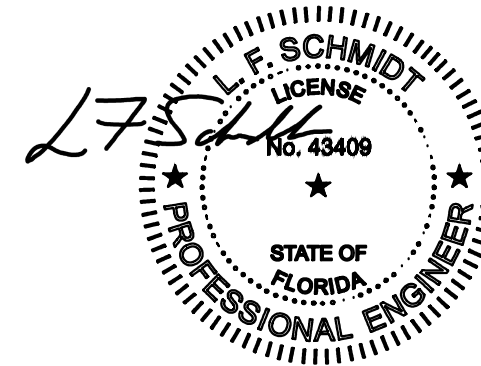
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing 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. Outswing configurations meet water infiltration requirements for "HVHZ".
8. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
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3	Vertical Cross Sections
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5	Buck & Frame Anchoring & Hardware Details
6	Bill of Materials & Components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
XX	74.0" x 81.25"	+45.0	-45.0
OXXO	108.0" x 81.25"	+45.0	-45.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.14 11:58:05 -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

RW 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:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
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

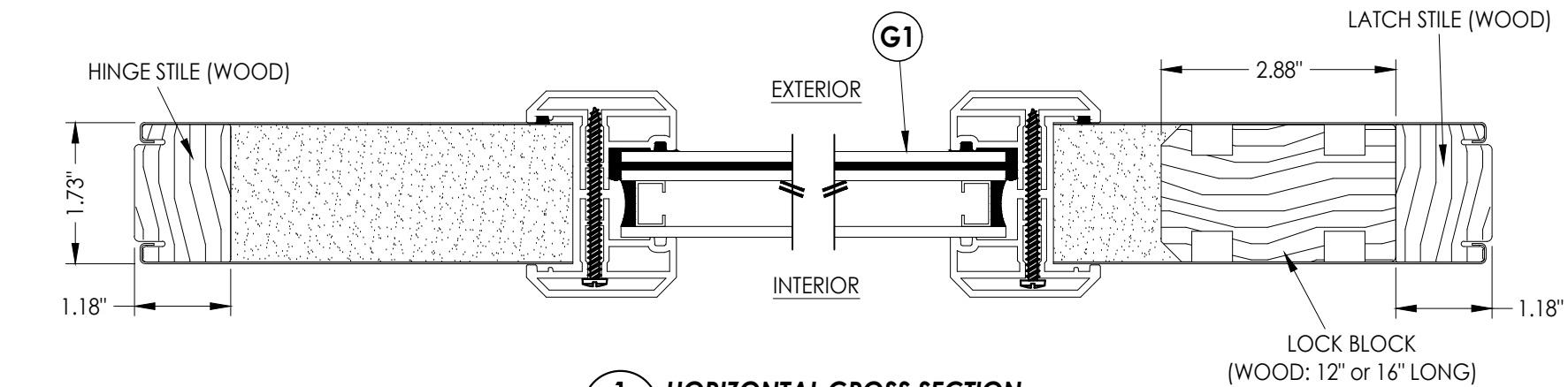
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DWG. BY: JK

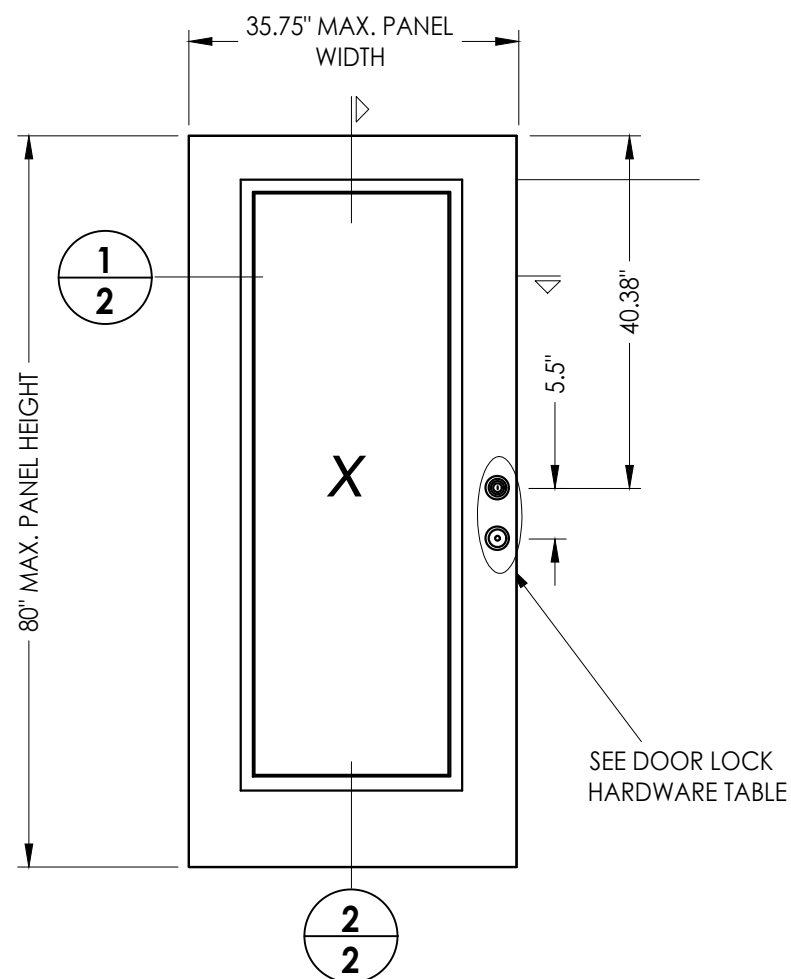
CHK. BY: LFS

DRAWING NO.: FL-20873.10

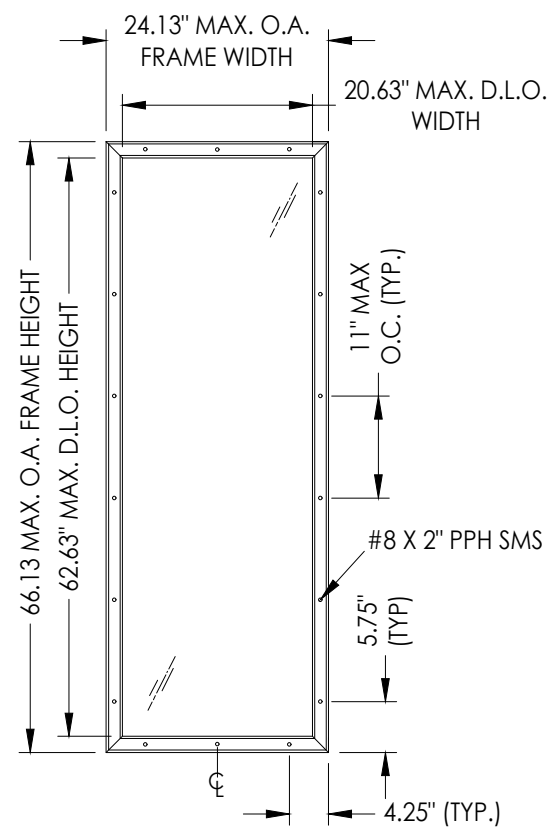
SHEET 1 OF 9



1 HORIZONTAL CROSS SECTION

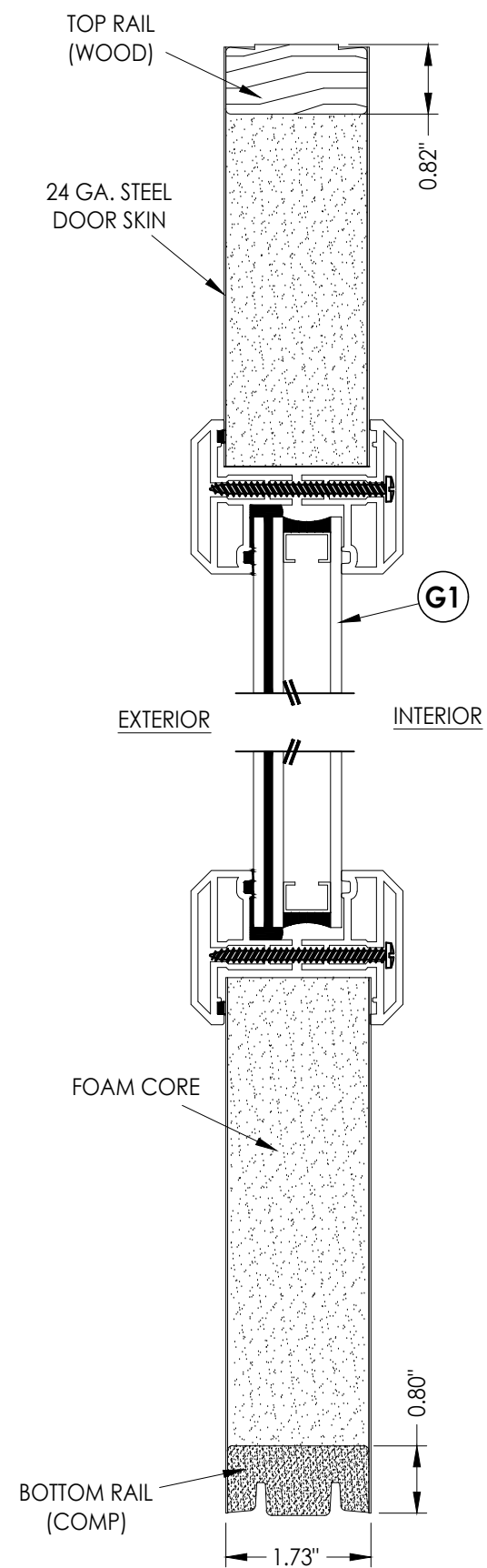


40 NOVATECH DOOR PANEL



ODL LITE FRAME DETAIL "FLAT FRAME" PROFILE

DOOR LOCK HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60N
YALE	KNOB:	NEW TRADITIONS
	DEADBOLT:	YH 82



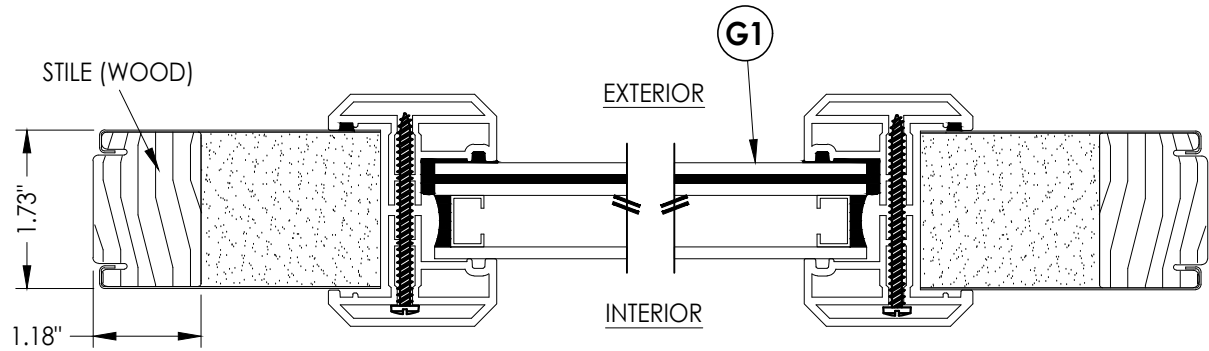
2 VERTICAL CROSS SECTION
2

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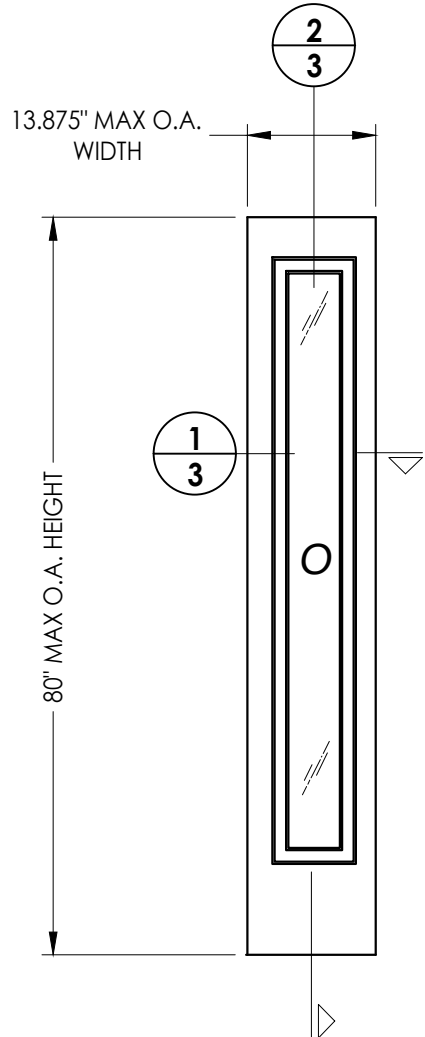
Documents Prepared By:
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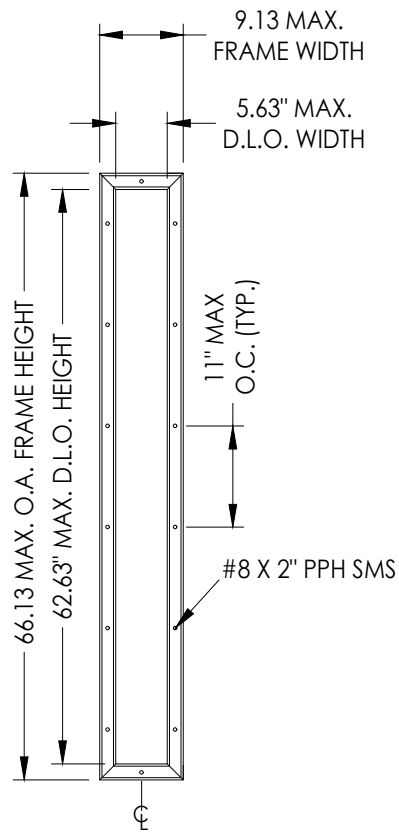
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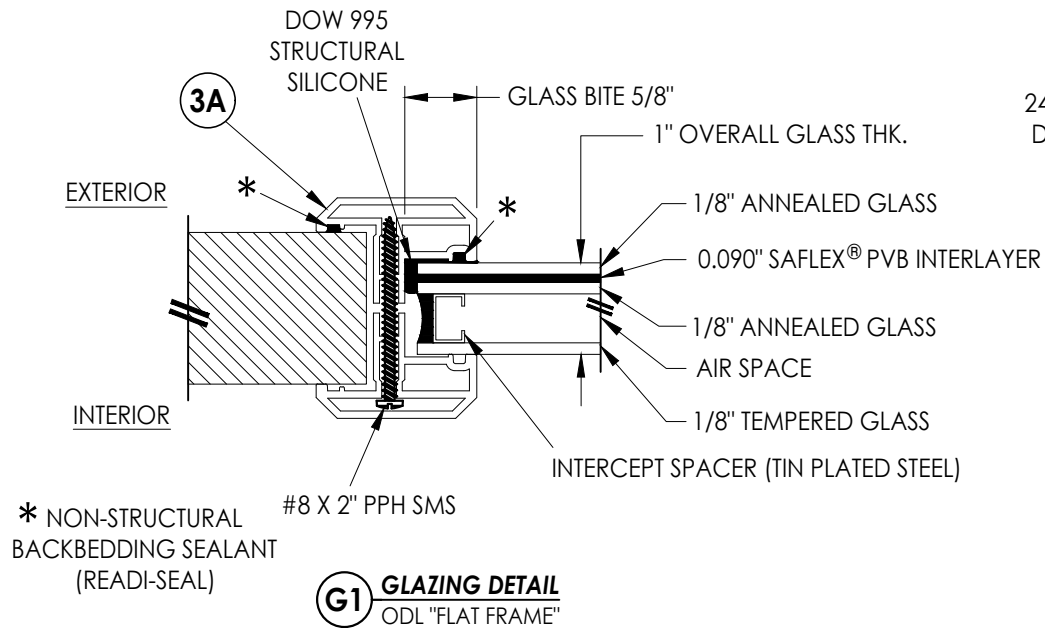
1
3 **HORIZONTAL CROSS SECTION**



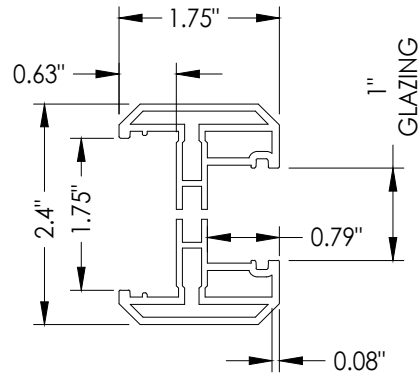
50 **SIDELITE PANEL**



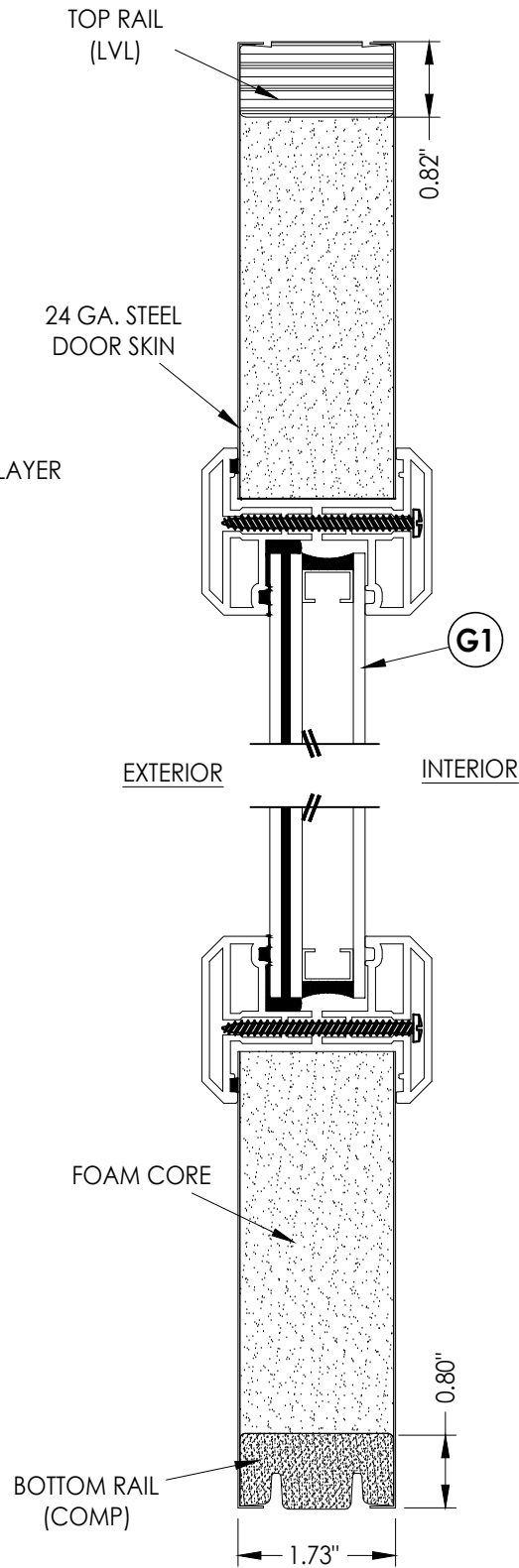
ODL LITE FRAME
14\"



G1 **GLAZING DETAIL**
ODL "FLAT FRAME"



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



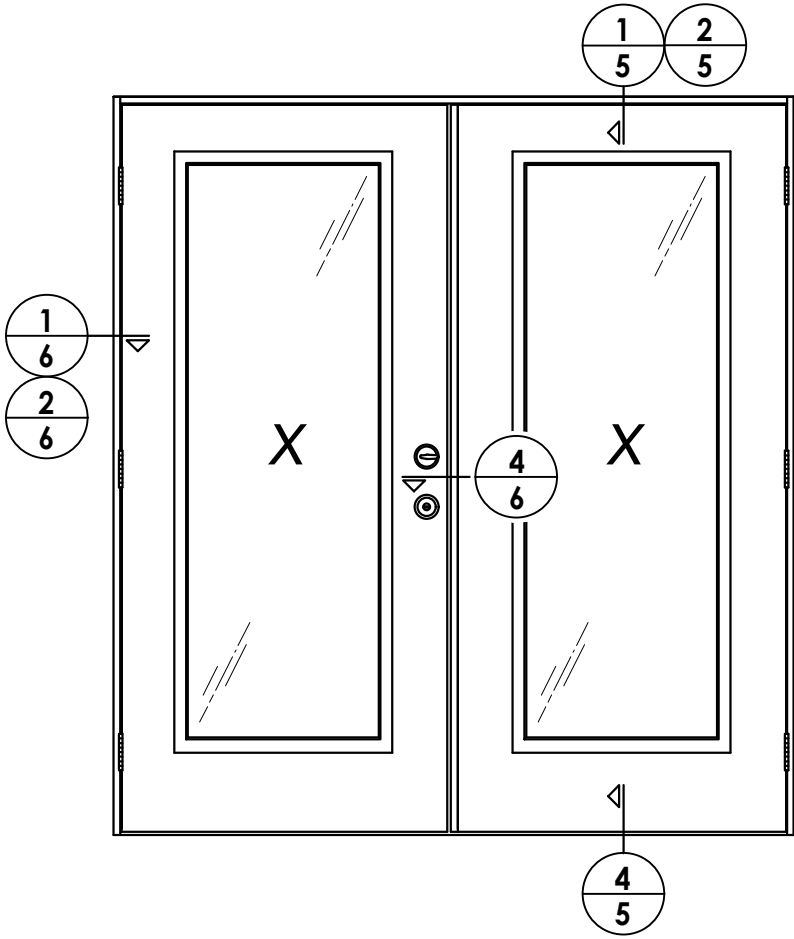
2
3 **VERTICAL CROSS SECTION**

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

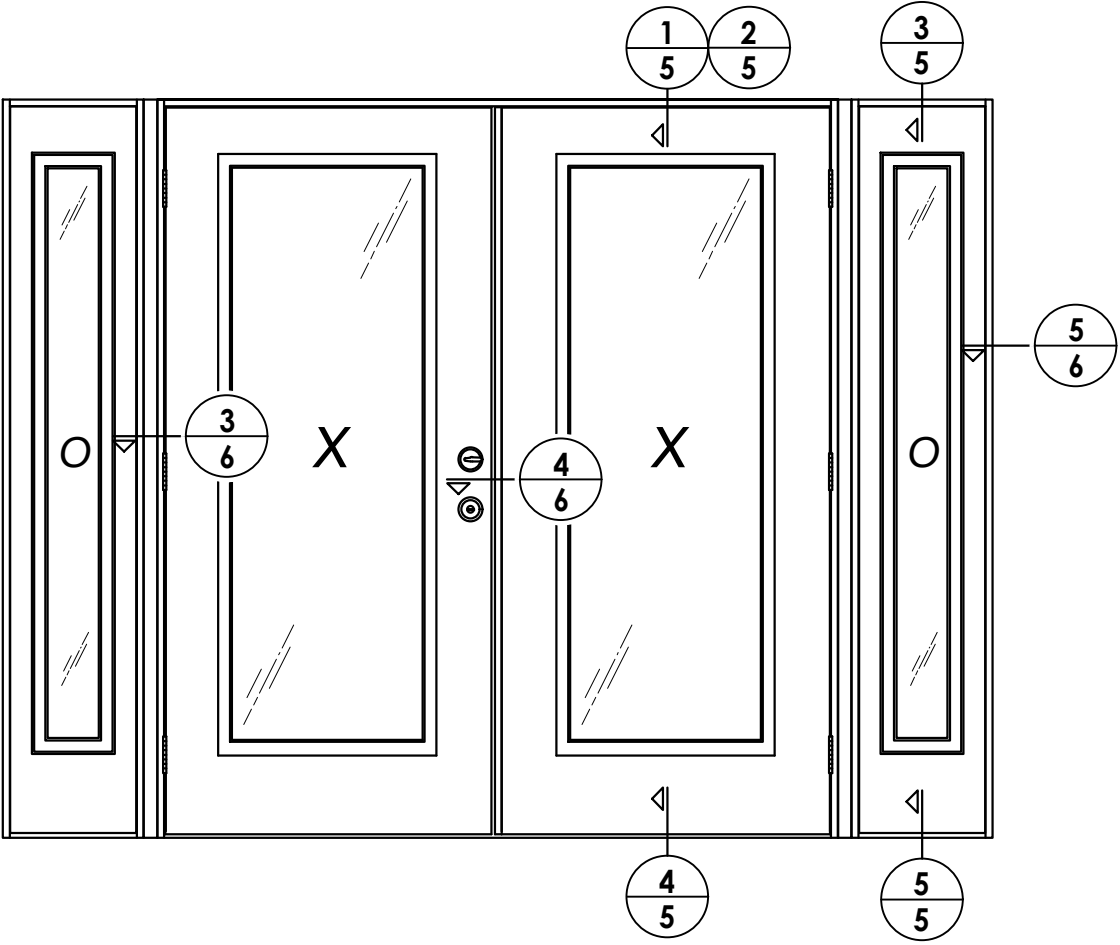
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		PART OR ASSEMBLY:	
NOVATECH STEEL DOOR		SIDELITE PANEL DETAILS AND GLAZING DETAIL	
NO.	DATE	BY	REVISIONS
3	9/13/23	LFS	UPDATE TO 8TH ED. (2023) FBC
2	10/01/20	LFS	UPDATE TO 7TH ED. (2020) FBC
1	10/05/17	JK	UPDATE TO 6TH ED. (2017) FBC
DATE: 8/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20873.10			
SHEET 3 OF 9			



ELEVATION
XX



ELEVATION
OXXO

DATE:	8/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20873.10
SHEET	4 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:	ELEVATIONS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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Diagram illustrating the cross-section of a window frame assembly, showing the exterior and interior components.

EXTERIOR

INTERIOR

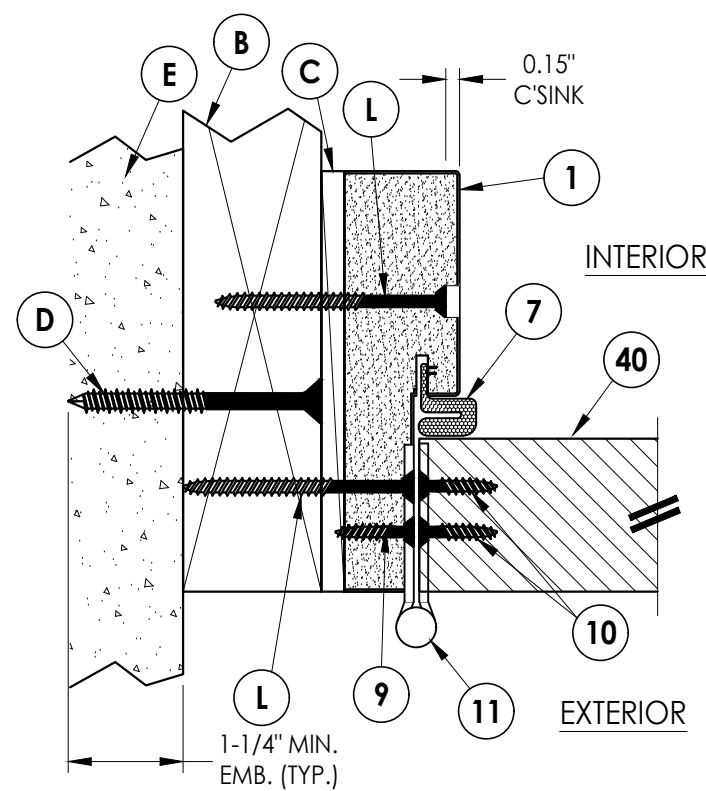
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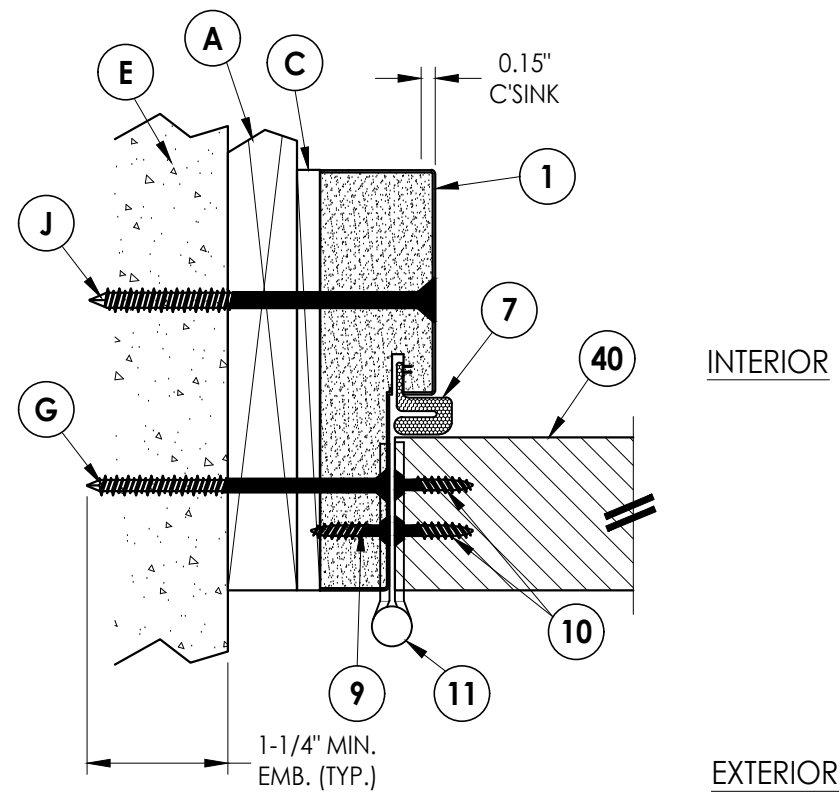
D

1-1/4" MIN.
EMB. (TYP.)

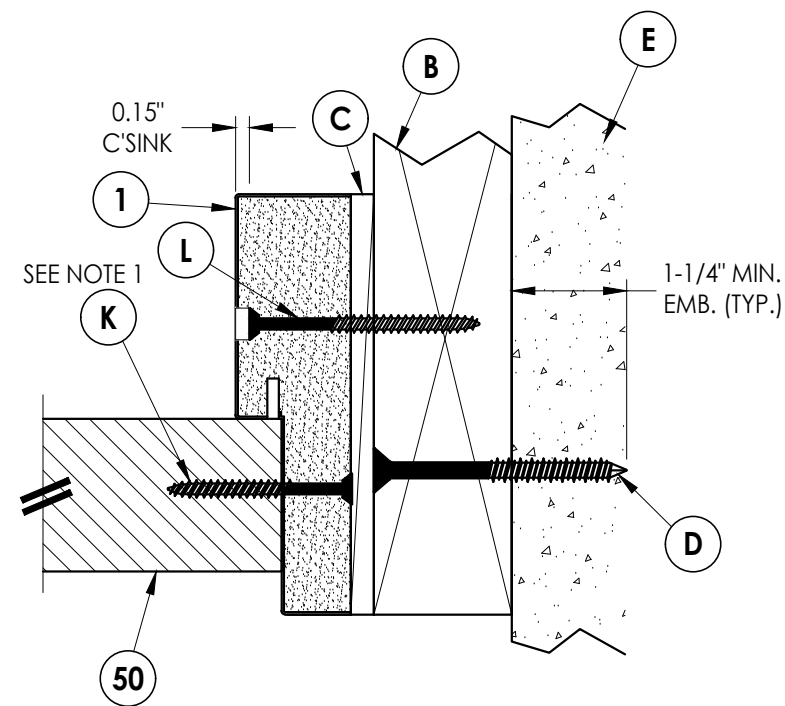
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1 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
 2X Buck Construction



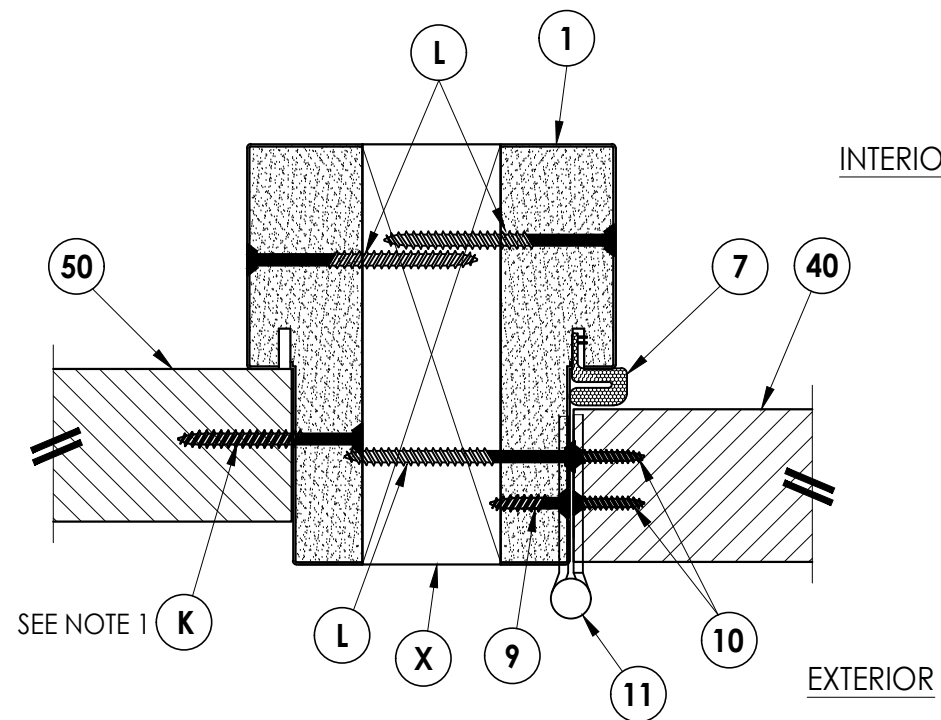
2 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
 1X Buck Construction



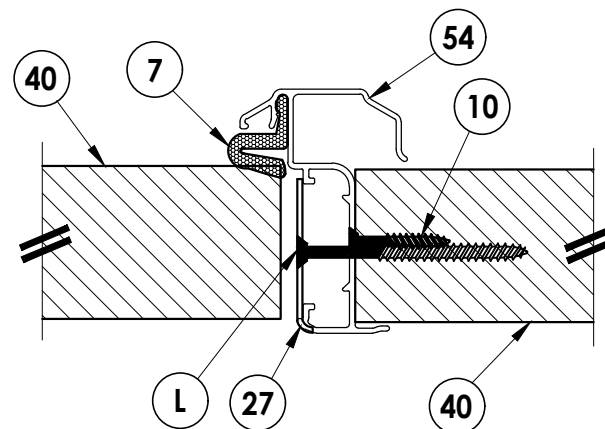
5 **HORIZONTAL CROSS SECTION**

6 Inswing shown (Outswing similar)
2X Buck Construction

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



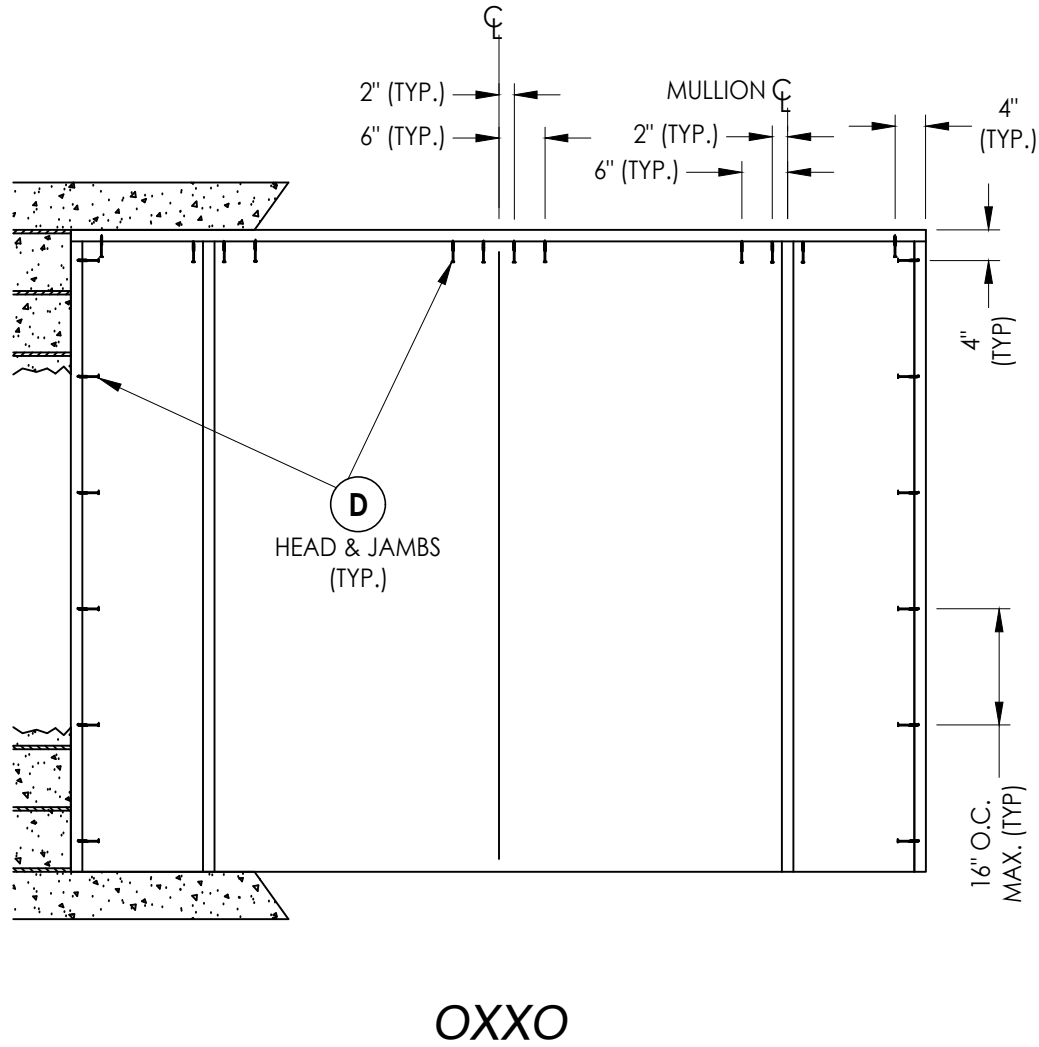
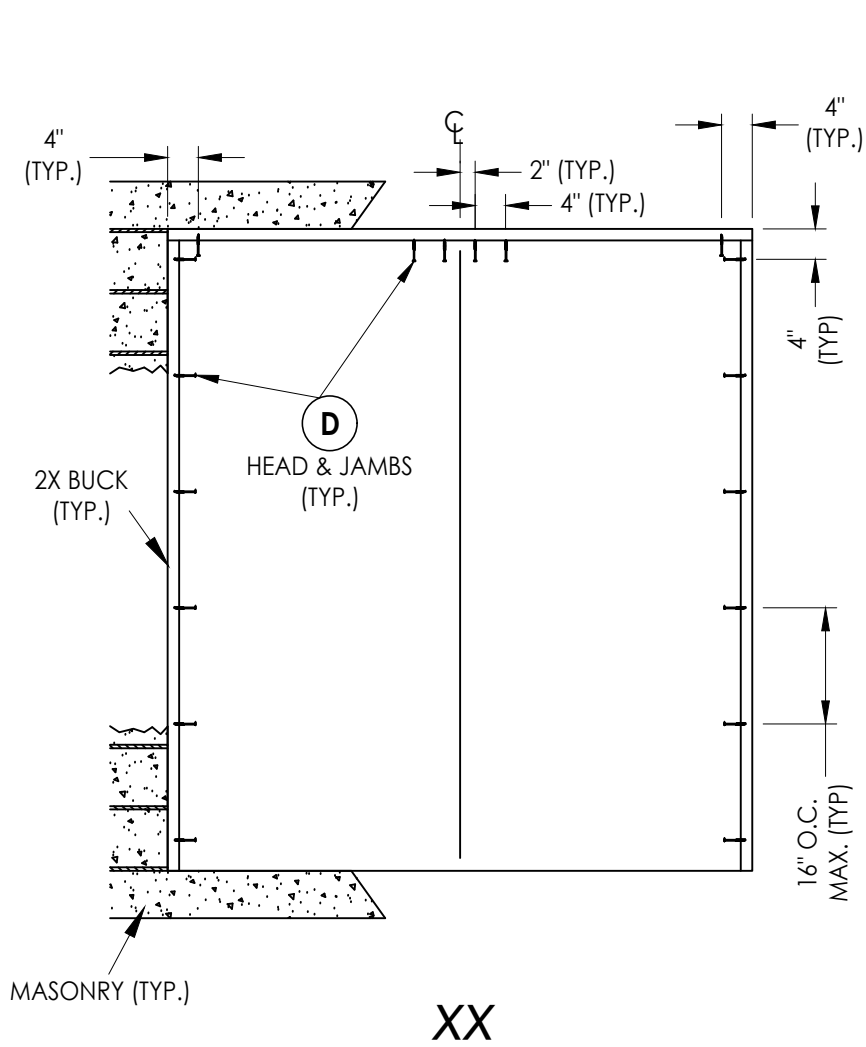
3 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)



4 **HORIZONTAL CROSS SECTION** 6 Inswing shown (Outswing similar)

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2X BUCK ANCHORING

DATE:	8/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20873.10
SHEET	7 OF 9

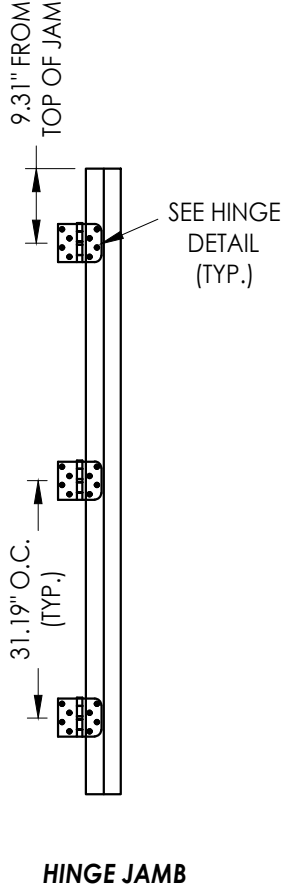
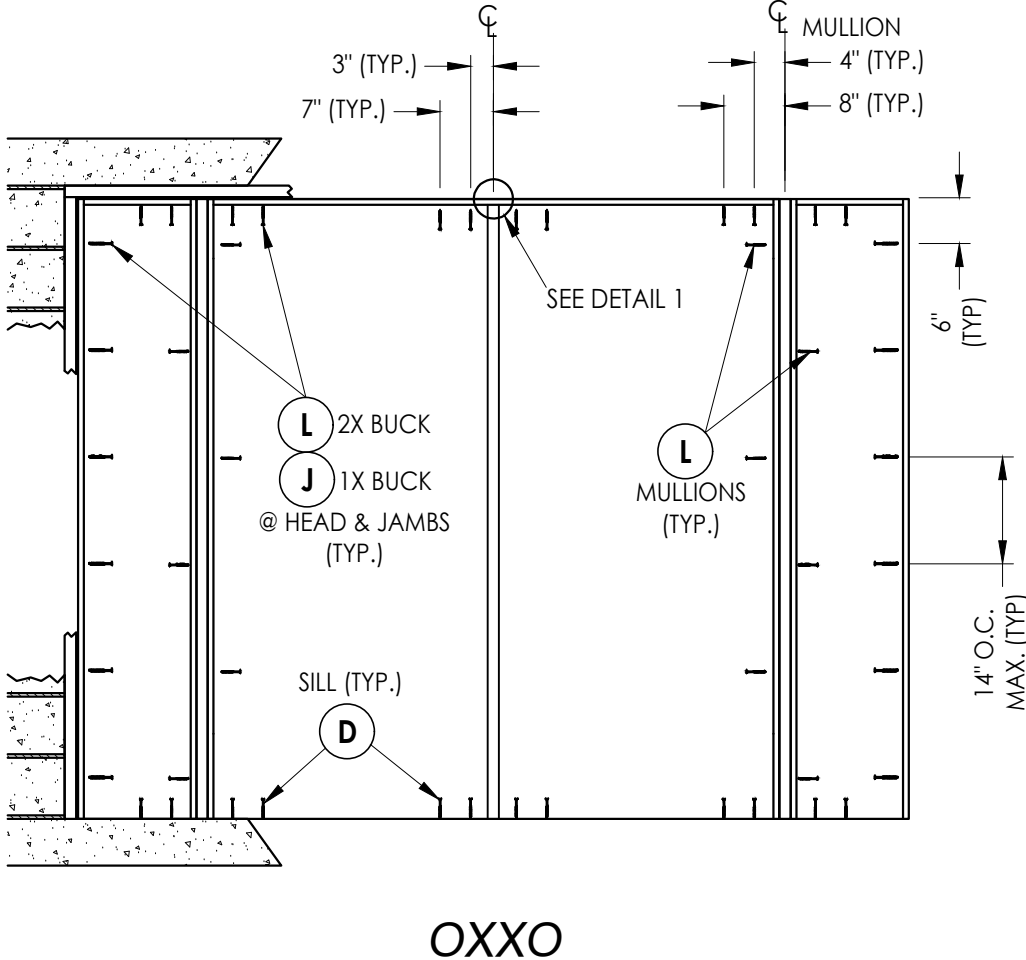
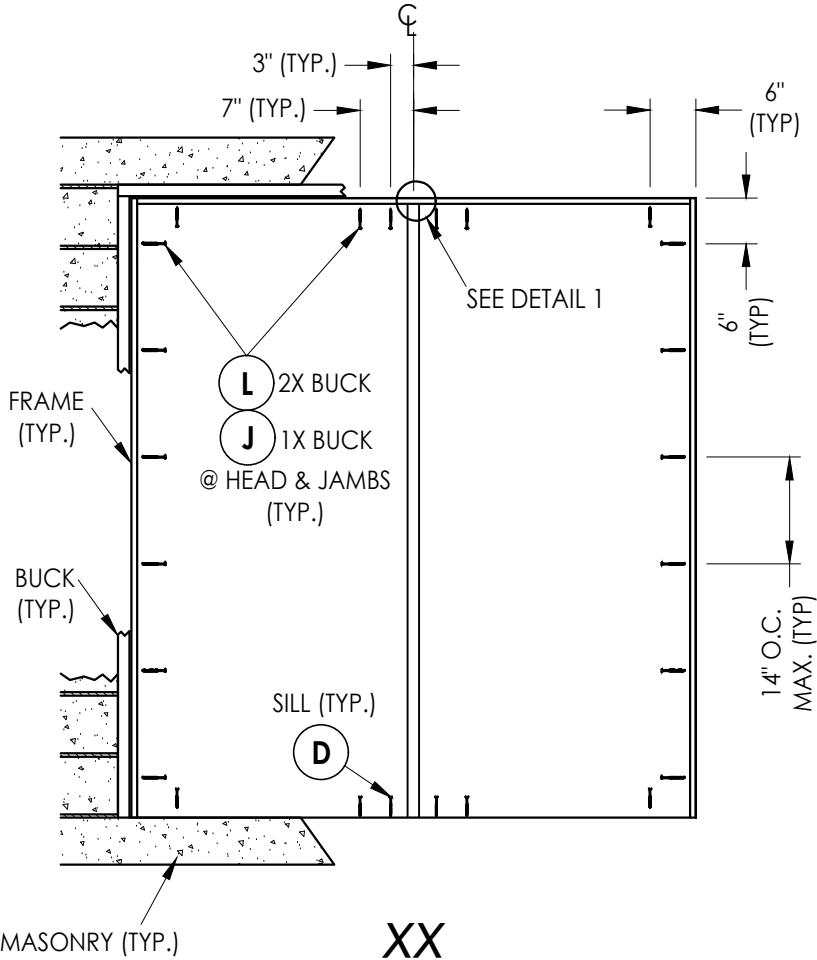
NO.	DATE	REVISIONS
3	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/05/17	UPDATE TO 6th ED. (2017) FBC JK
		BY

PRODUCT:	NOVATECH STEEL DOOR
PART OR ASSEMBLY:	BUCK ANCHORING

Documents Prepared By:
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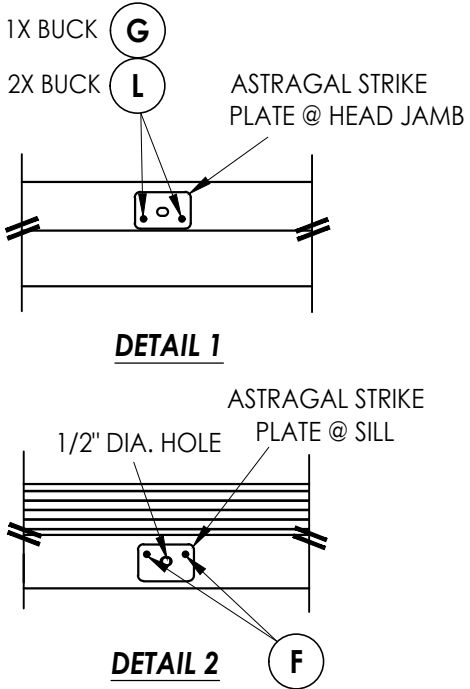
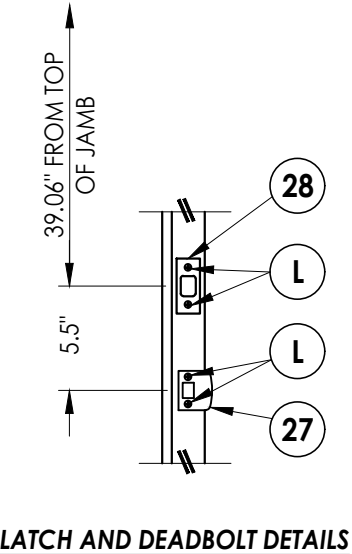
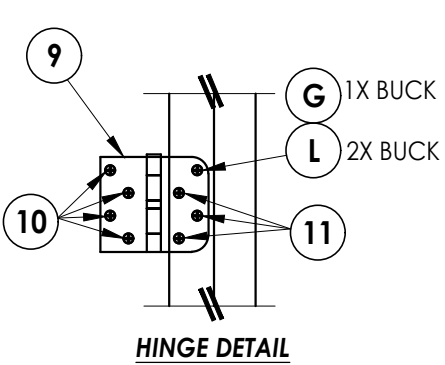


FRAME ANCHORING

- 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 BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

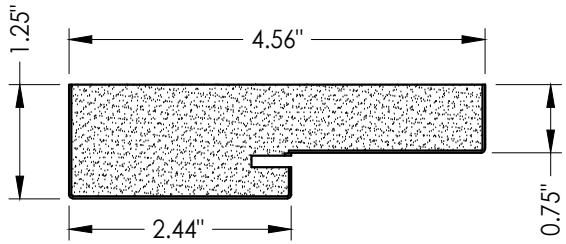
- WOOD SCREW INSTALLATION NOTES:
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



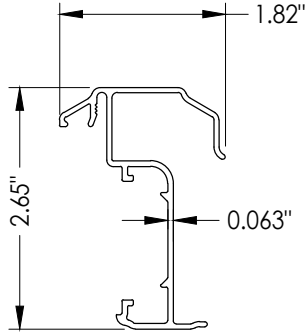
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		NOVATECH STEEL DOOR		DATE: 8/14/17	
PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS		LFS		SCALE: N.T.S.	
REVISING ENGINEER: RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		LFS		DWG. BY: JK	
		JK		CHK. BY: LFS	
		BY		DRAWING NO.: FL-20873.10	
		NO. DATE		SHEET 8 OF 9	
		REVISIONS			

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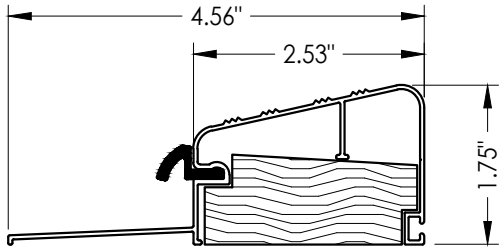
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.55)	WOOD
B	2X BUCK (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	3/16" X 2-1/4" PFH 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
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
35	OUTSWING THRESHOLD	ALUM/COMP
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



35 OUTSWING THRESHOLD
DLP

Documents Prepared By:
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P.E. No. 43409

NOVATECH
STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

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

NO.

DATE

BY

REVISIONS

DATE: 8/14/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20873.10

SHEET 9 OF 9

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