

Z:\2023 FBC Drawings\Novatech Doors, Inc\FL-20873 R5\FL-20873.11-12.dwg

Novatech®

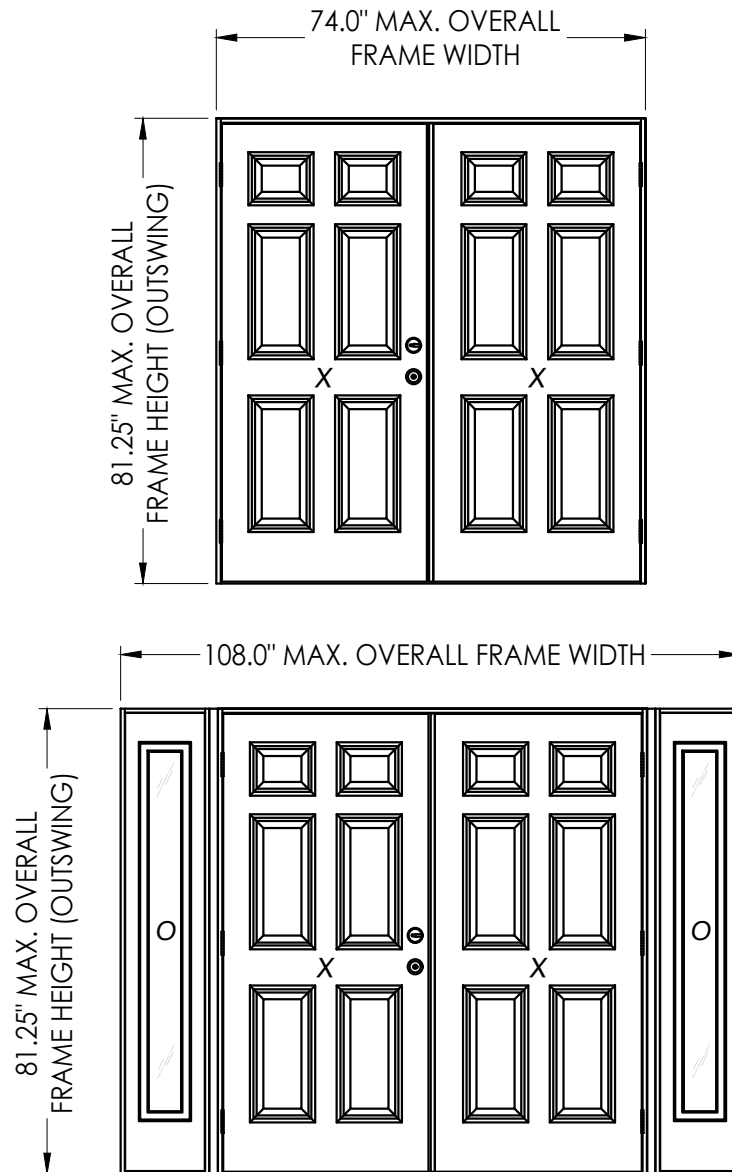
OPAQUE STEEL DOUBLE DOOR
w/ or w/out SIDELITES
OUTSWING
"IMPACT"

GENERAL NOTES

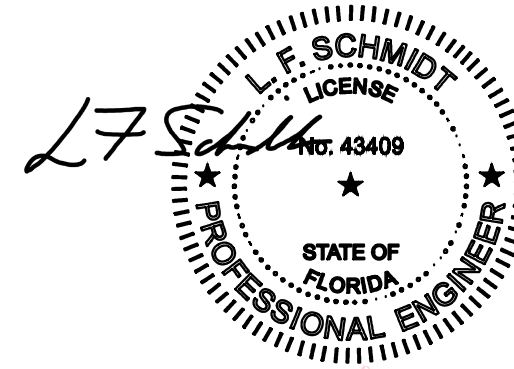
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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
2	Door Panel Details
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6	Horizontal Cross Sections
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 81.25"	+55.0	-55.0
OX XO	108.0" x 81.25"	+55.0	-55.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.14 11:57:21 -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			
		3	2	1	NO.
	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
	10/01/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
	10/05/17	UPDATE TO 6th ED. (2017)	FBC	JK	
				BY	

DATE: 8/14/17

SCALE: N.T.S.

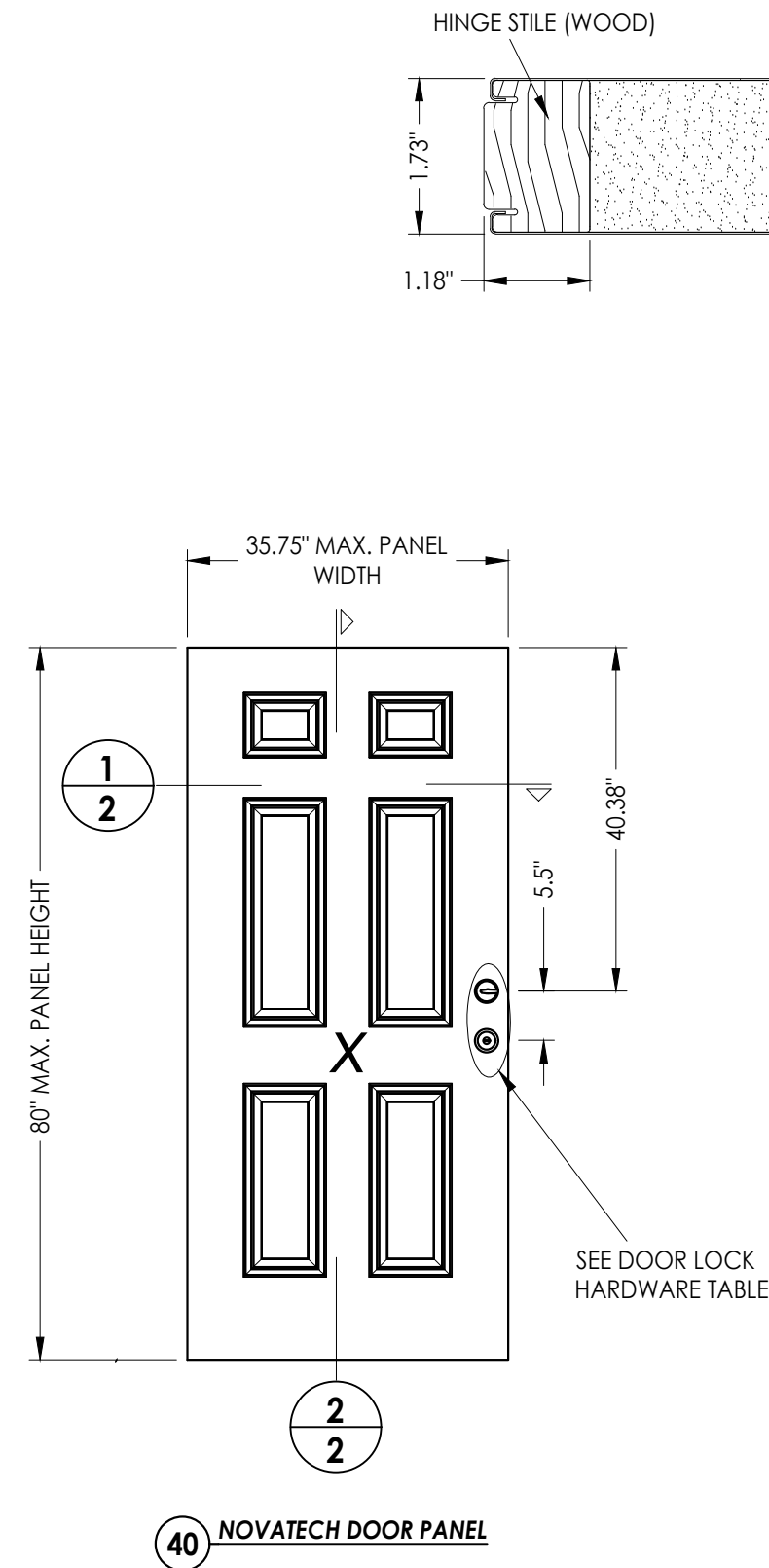
DWG. BY: JK

CHK. BY: LFS

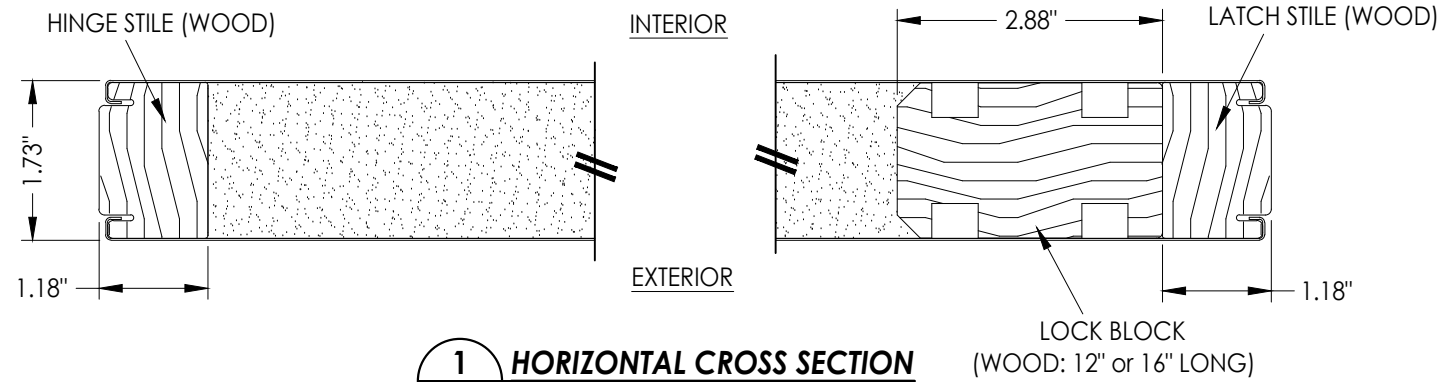
DRAWING NO.:

FL-20873.12

SHEET 1 OF 9

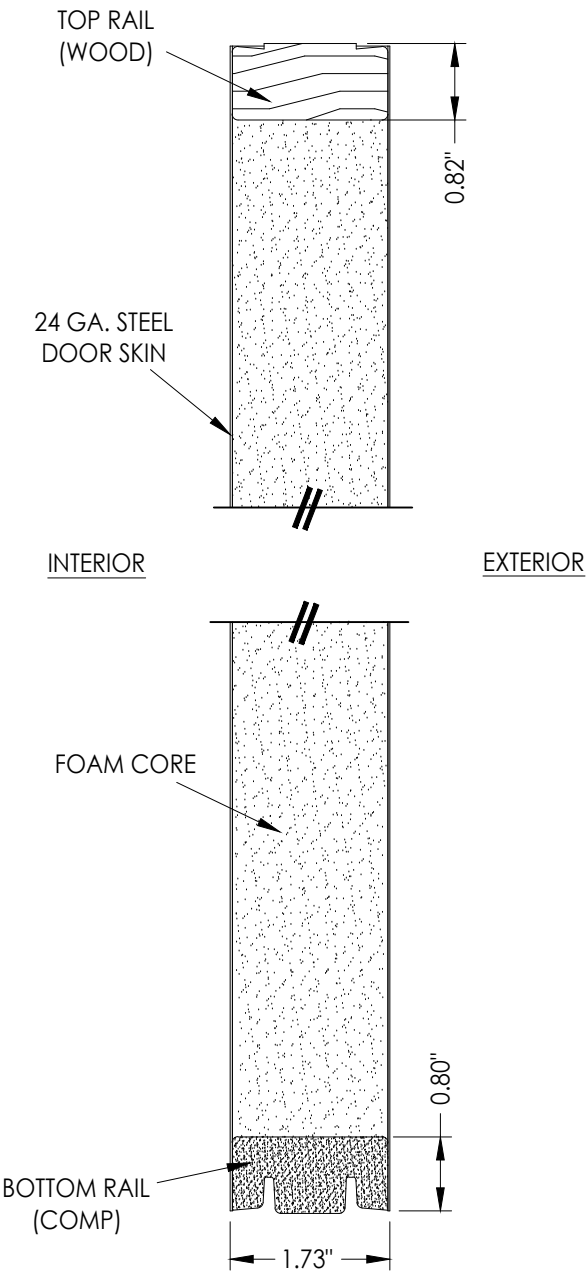


1 **HORIZONTAL CROSS SECTION**



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



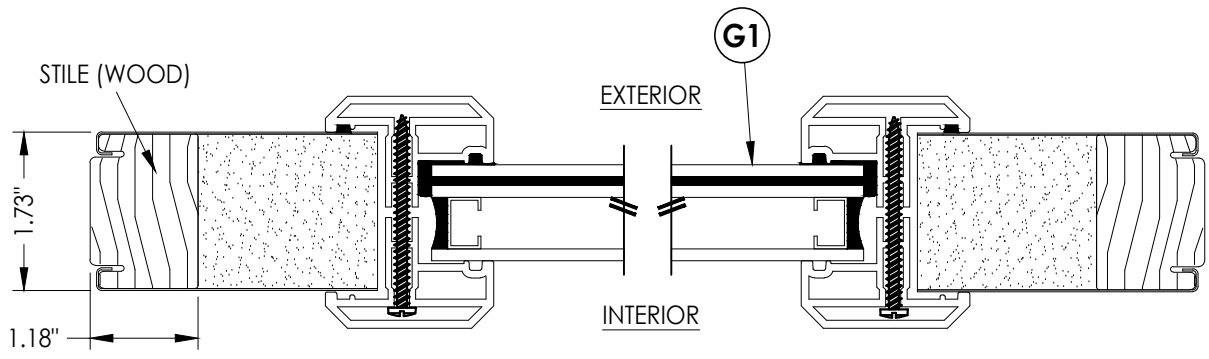
DOOR SKIN: 24 GA. STEEL (0.021" MIN. THICKNESS, $F_y = 26,800$ PSI MIN.)
CORE MATERIAL: POLYURETHANE FOAM (2.0 PCF MIN.)

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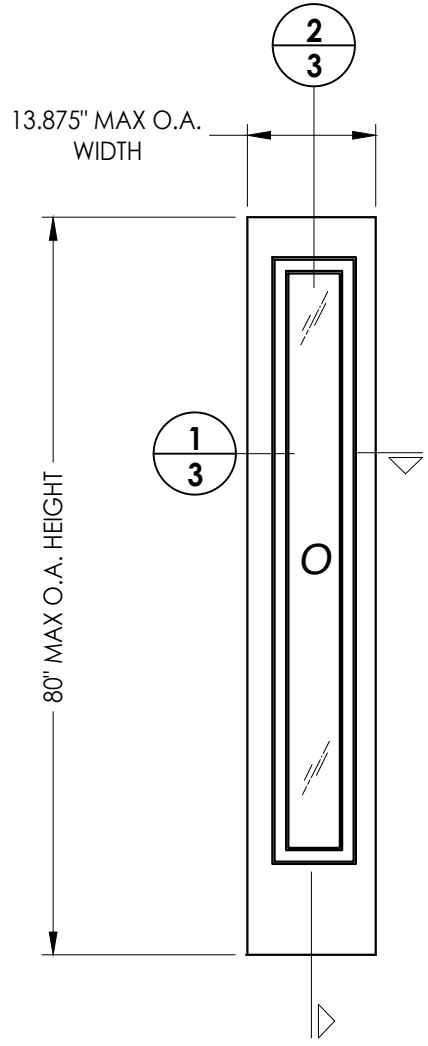
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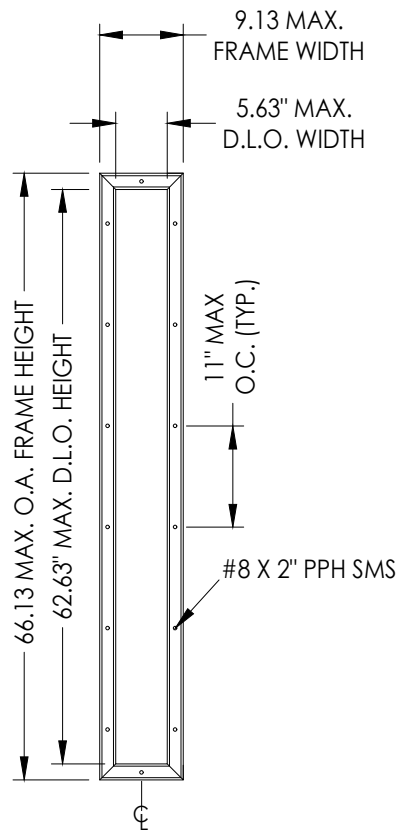
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1
3 **HORIZONTAL CROSS SECTION**

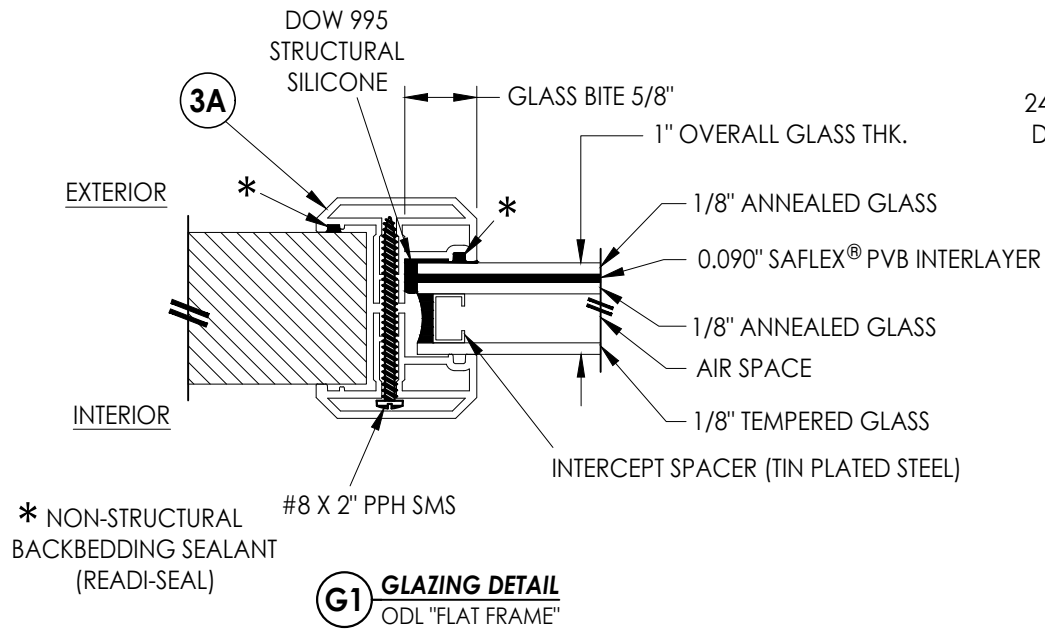


50 **SIDELITE PANEL**

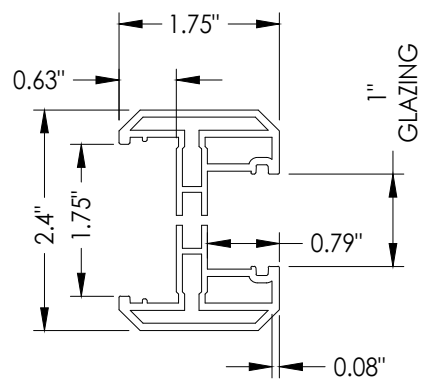


ODL LITE FRAME
14\"

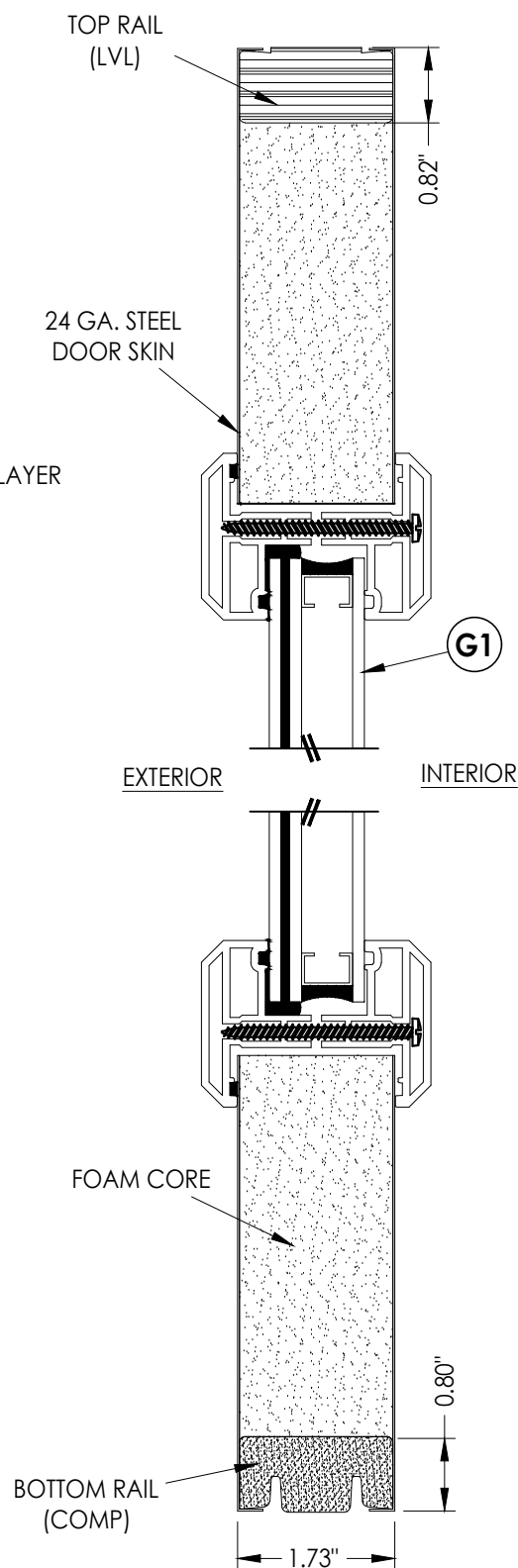
SIDELITE SKIN: 24 GA. STEEL (0.021" MIN. THICKNESS, Fy = 26,800 PSI MIN.)
CORE MATERIAL: POLYURETHANE FOAM (2.0 PCF MIN.)



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



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



2
3 **VERTICAL CROSS SECTION**

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PRODUCT: NOVATECH STEEL DOOR										PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

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PART OR ASSEMBLY:
ELEVATIONS

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

50

EXTERIOR

INTERIOR

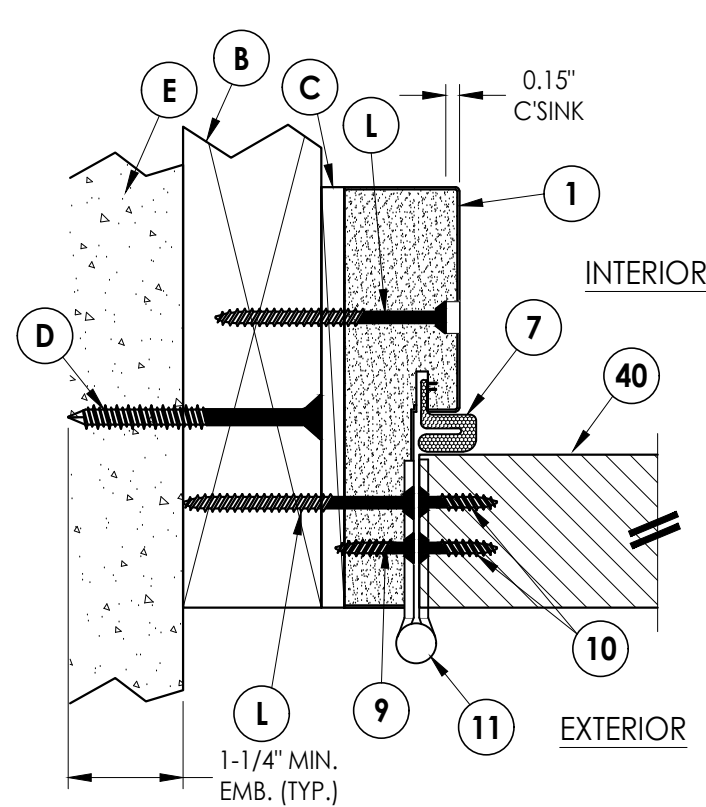
1

0.15" C-SINK

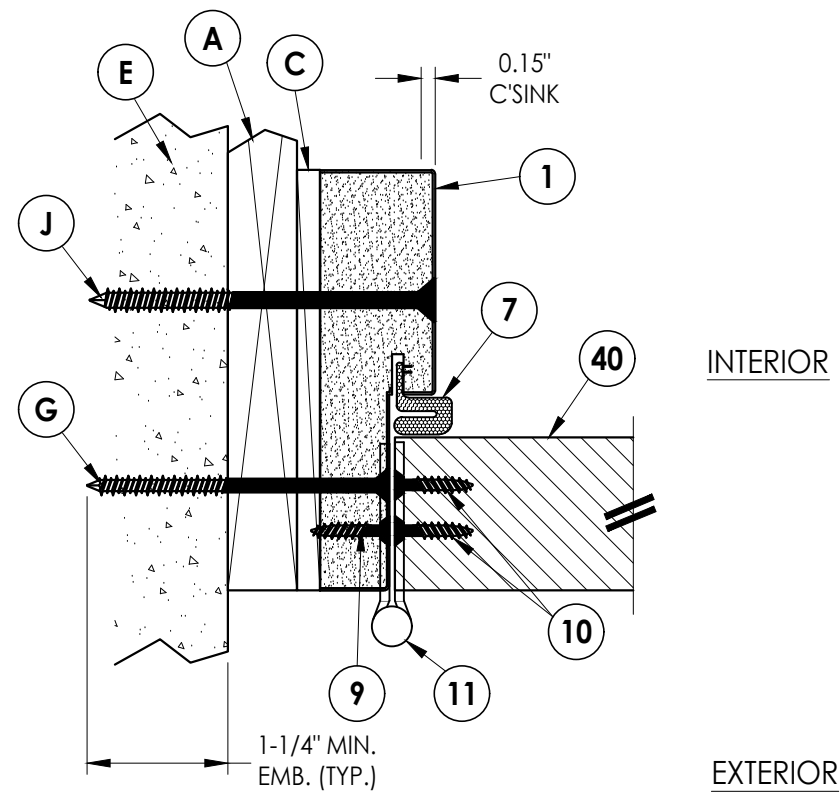
A, B, C, D, E

The diagram illustrates a cross-section of a door threshold assembly. The exterior side (left) features a vertical component labeled '50' with diagonal hatching. The interior side (right) shows a complex assembly with a top flange labeled '35' and a central vertical bolt labeled 'D'. A dimension line on the left indicates a height of '1-1/4" MIN. EMB. (TYP.)'. The entire assembly is mounted on a base material, likely concrete, indicated by a stippled pattern.

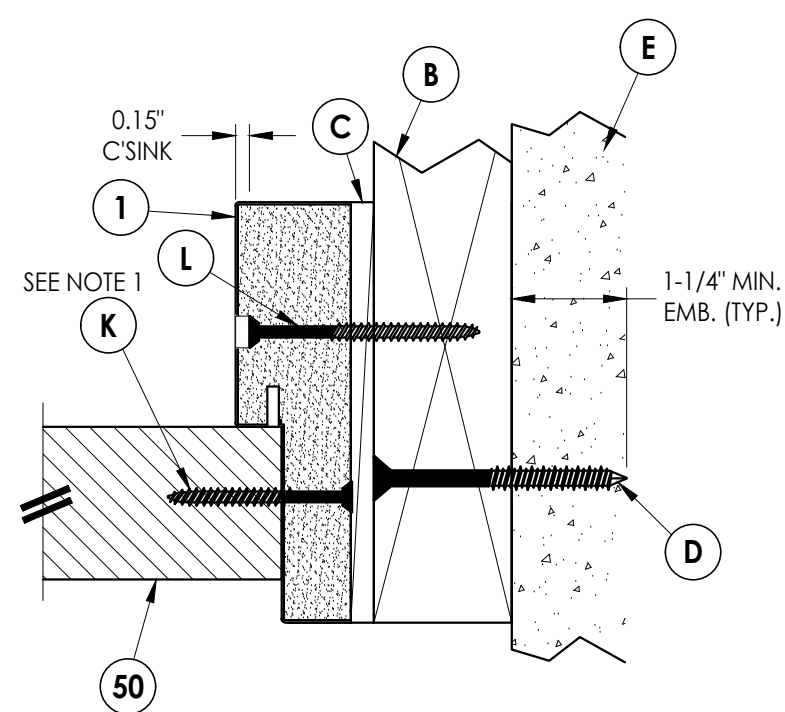
DATE: 8/14/17												Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.												<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DWG. BY: JK													
CHK. BY: LFS													
DRAWING NO.: FL-20873.12													
SHEET 5 OF 9													



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



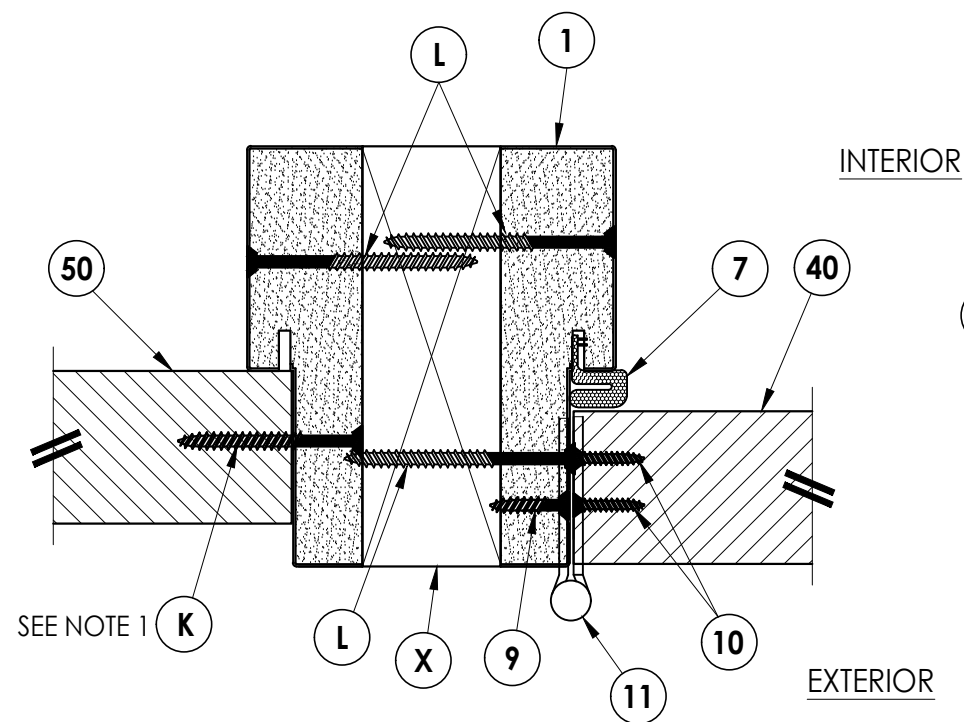
2 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
 1X Buck Construction



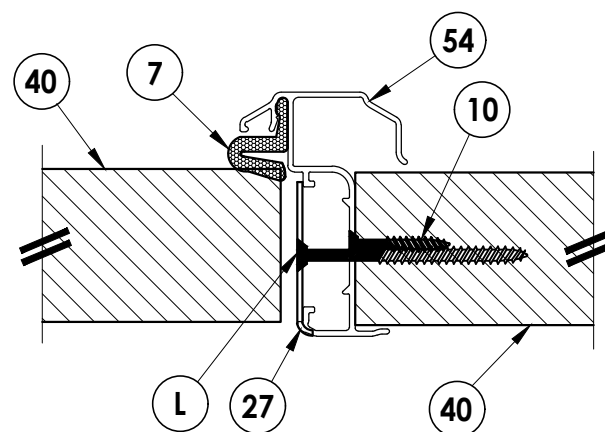
5 HORIZONTAL CROSS SECTION
6 Inswing shown (Outswing similar)
 2X Buck Construction

NOTE:

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



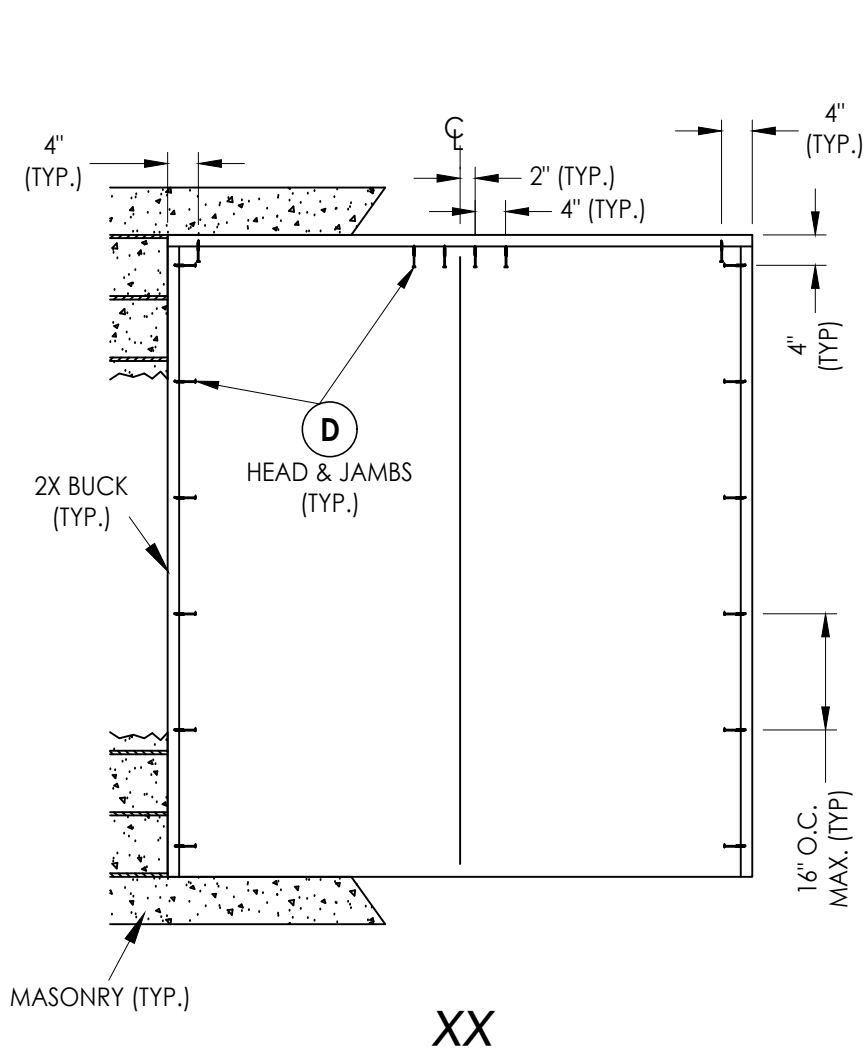
3 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)



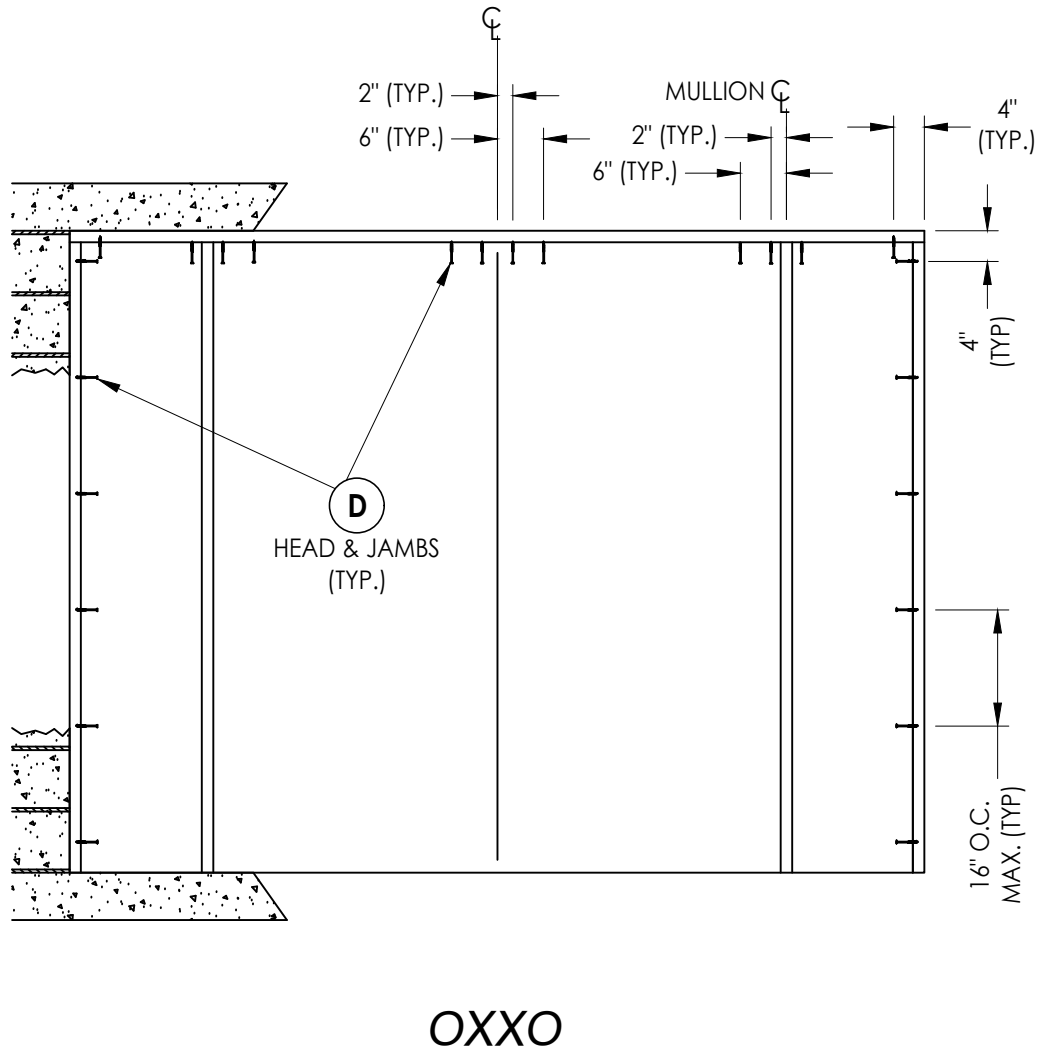
4 HORIZONTAL CROSS SECTION

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-20873.12	
SHEET 7	OF 9

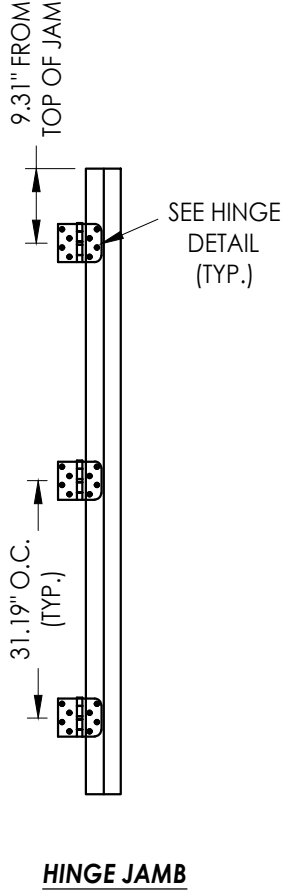
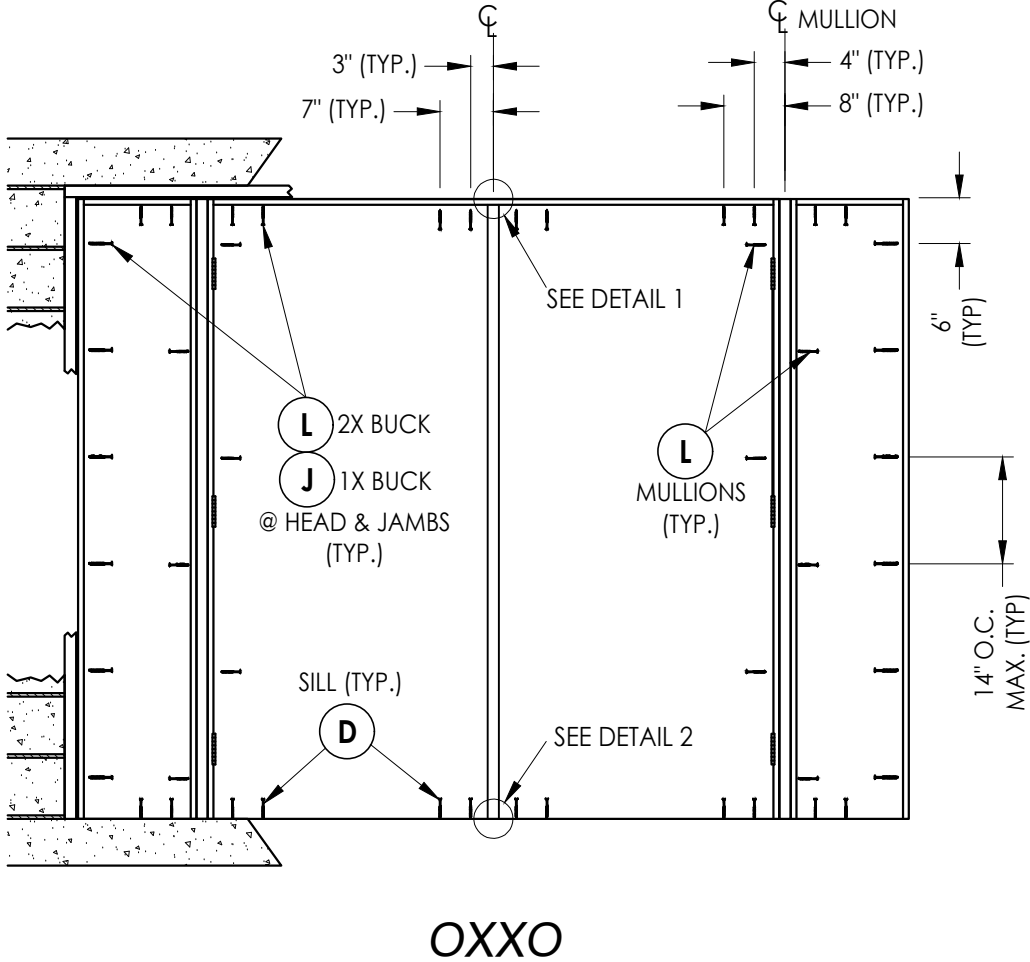
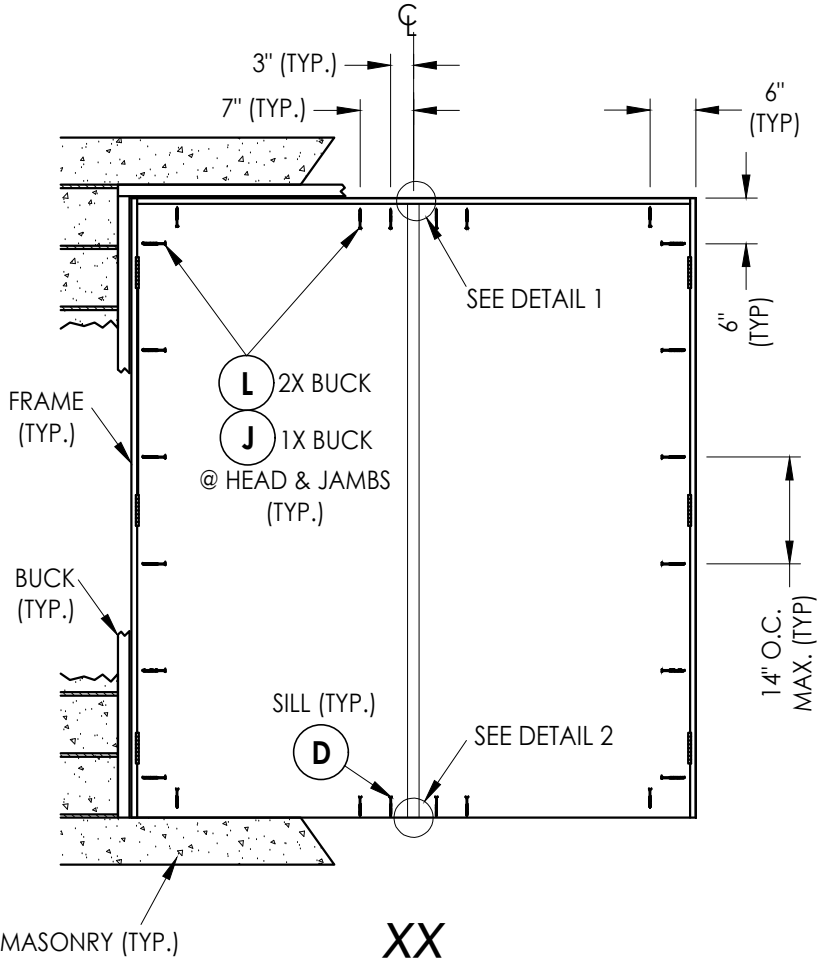
NO.	DATE	REVISIONS
3	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	10/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/05/17	UPDATE TO 6th ED. (2017) FBC JK

PRODUCT: NOVATECH STEEL DOOR	
PART OR ASSEMBLY: BUCK ANCHORING	

Documents Prepared By:
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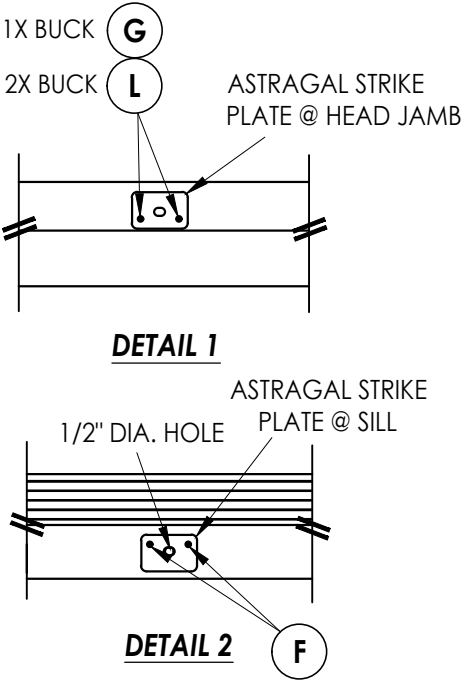
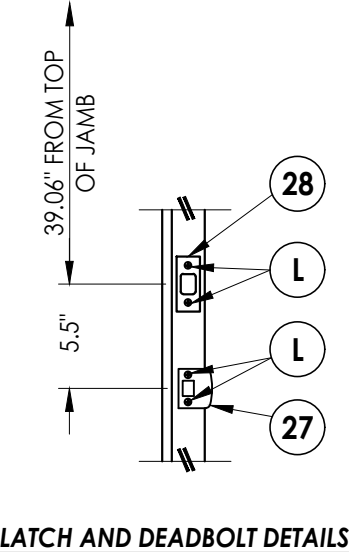
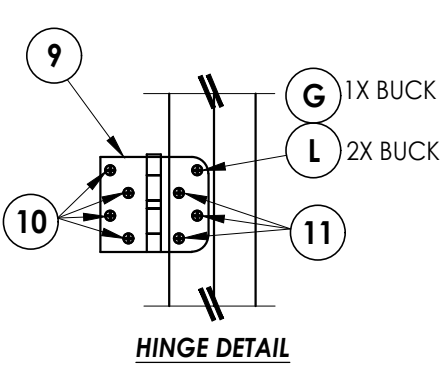


FRAME ANCHORING

- 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 ULTRA-CON®	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

PART OR ASSEMBLY:
FRAME ANCHORING
& HARDWARE DETAILS

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

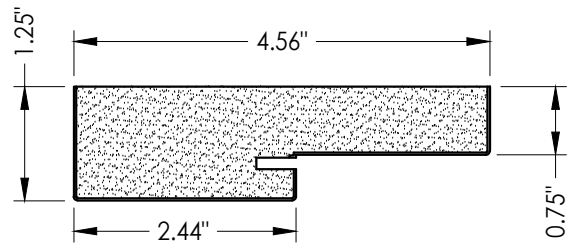
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SHEET 8 OF 9

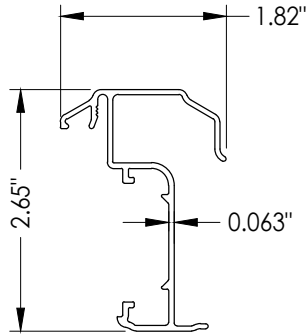
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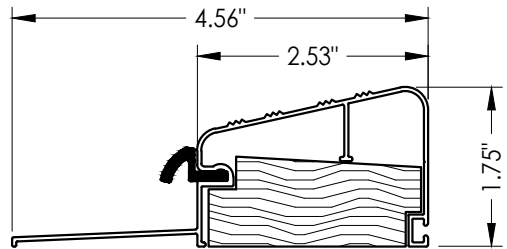
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.55	WOOD
B	2X BUCK (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	3/16" X 2-1/4"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

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	
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
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			REVISIONS
DATE: 8/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20873.12			
SHEET 9 OF 9			