

Z:\2023 FBC Drawings\Novatech Doors, Inc\FL-20873 R5\FL-20873.5-6.dwg

Novatech®

OPAQUE STEEL SINGLE DOOR w/ or w/out SIDELITES

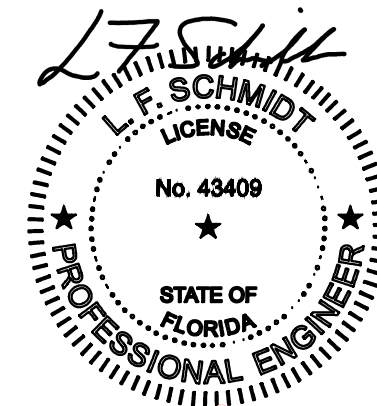
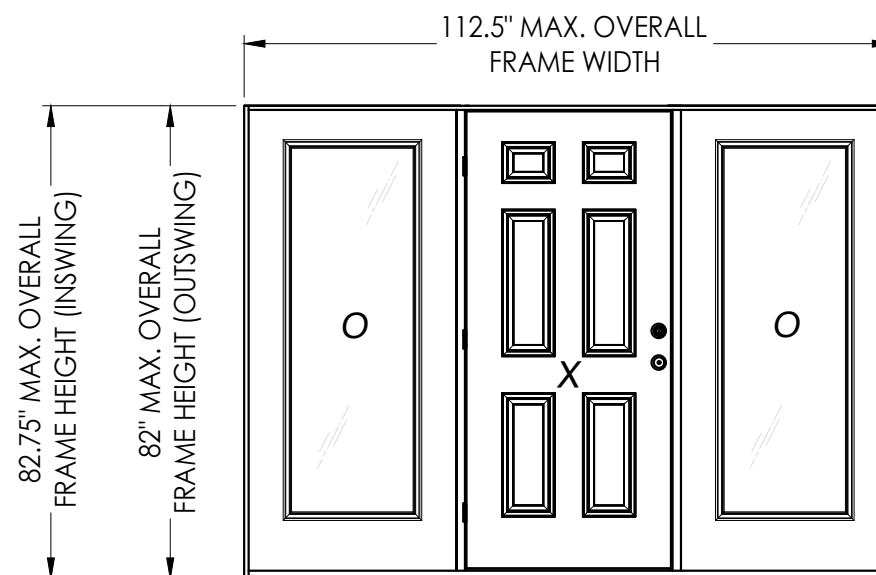
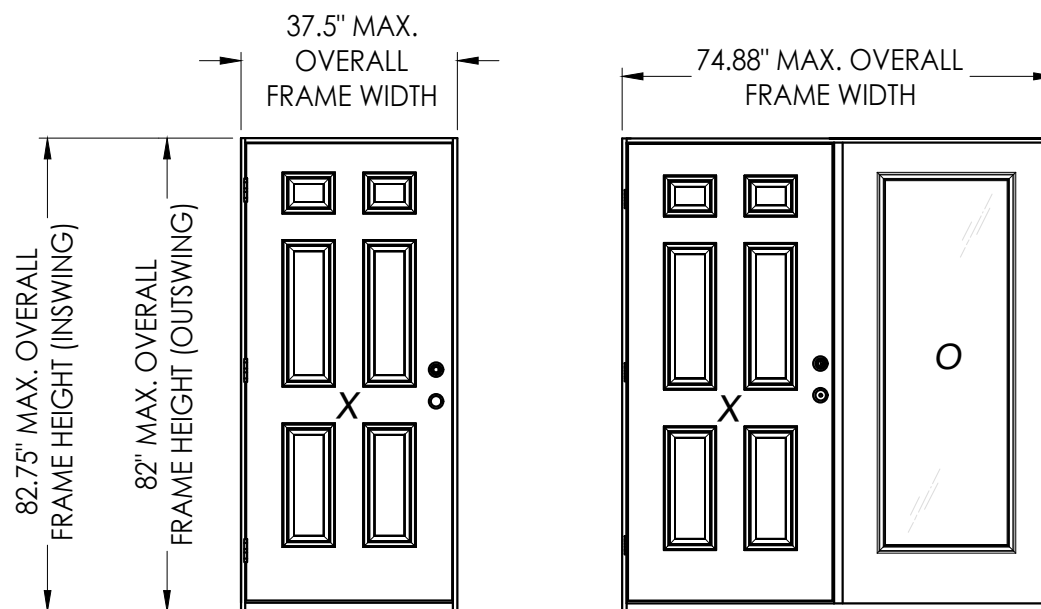
INSWING / OUTSWING
"NON-IMPACT"

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 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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SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door & Sidelite Panel Details
3	Elevations
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6	Buck Anchoring
7	Frame Anchoring & Hardware Details
8	Bill of Materials & Components



Digitally signed by Lyndon F Schmidt
Date: 2023.09.13 16:38:51 -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

MULLION	CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
N/A	X	37.5" x 82.75"	+70.0	-70.0	+70.0	-70.0
INTEGRAL	XO / OX	74.88" x 82.75"	+45.0	-50.0	+50.0	-50.0
INTEGRAL	OXO	112.5" x 82.75"	+45.0	-50.0	+50.0	-50.0
BACK TO BACK	XO / OX	74.88" x 82.75"	+50.0	-55.0	+45.0	-45.0
BACK TO BACK	OXO	112.5" x 82.75"	+50.0	-55.0	+45.0	-45.0

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

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

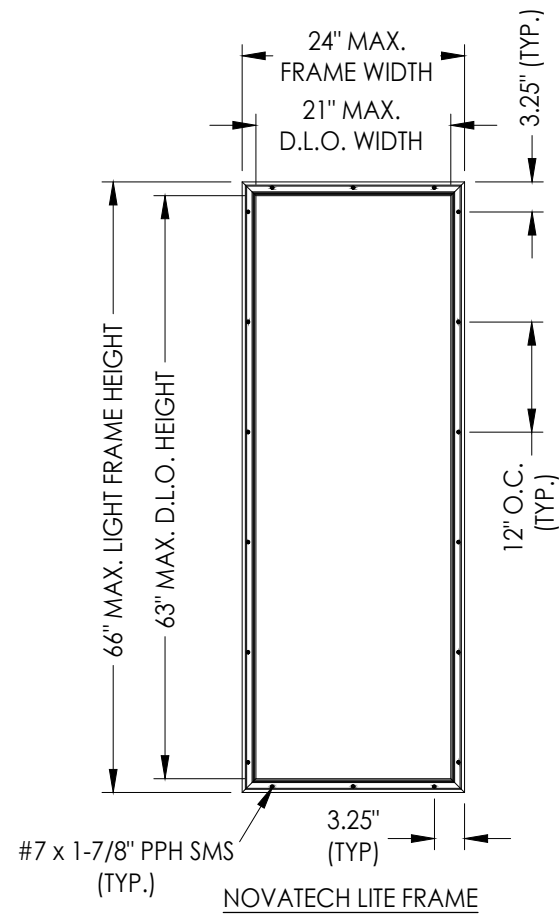
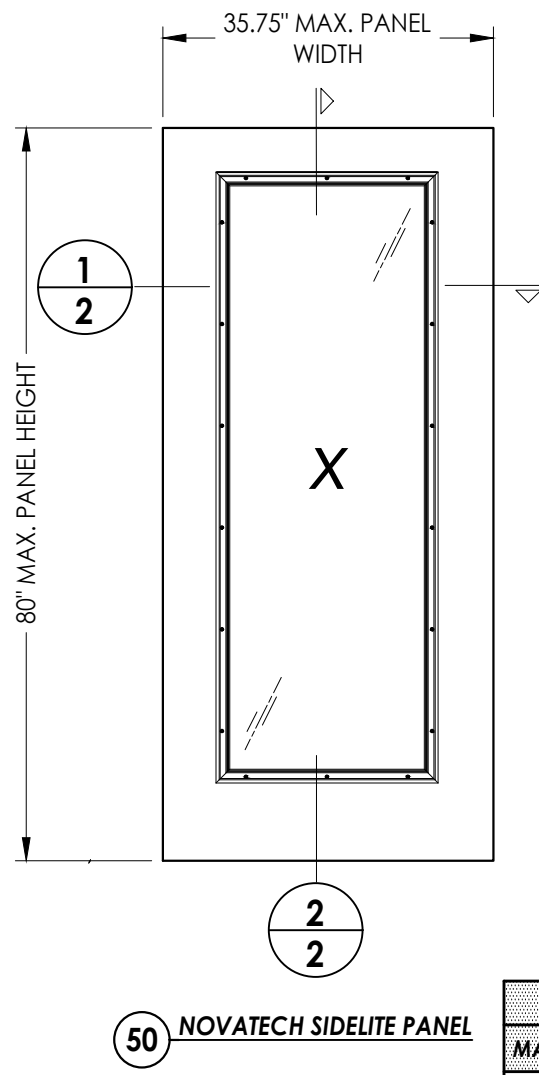
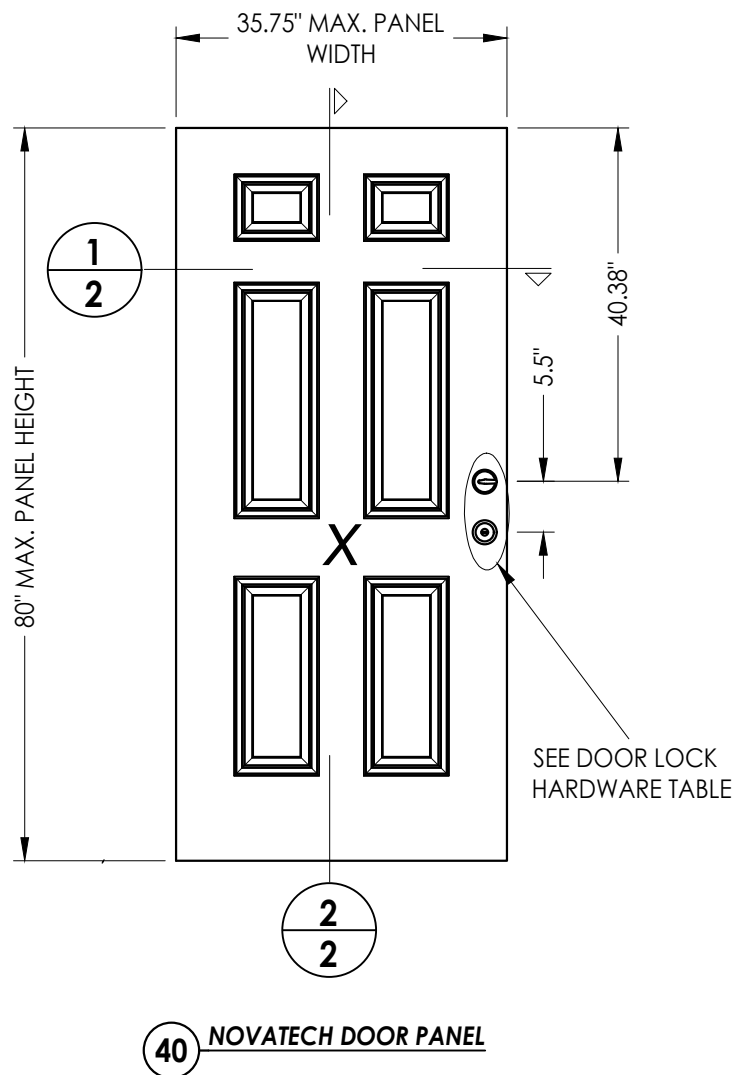
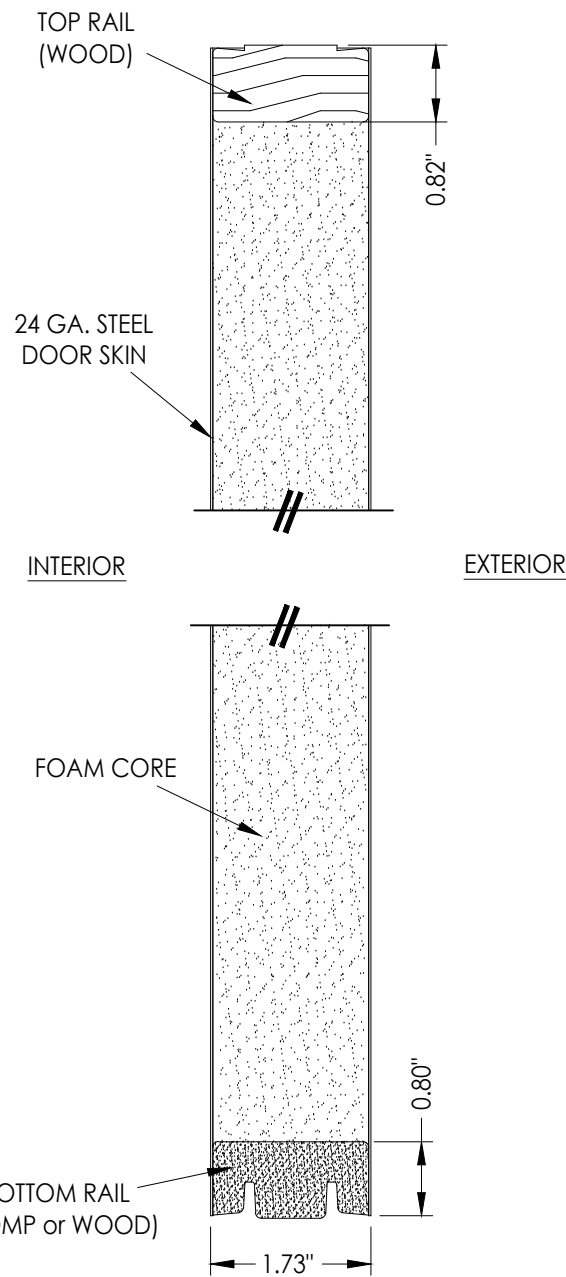
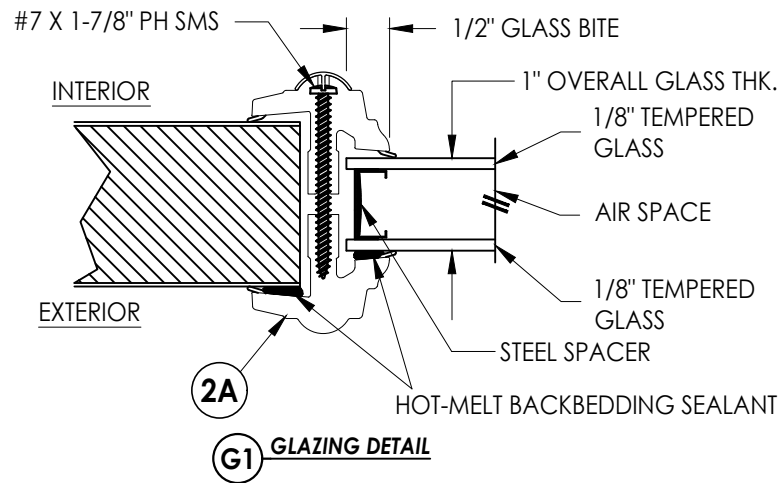
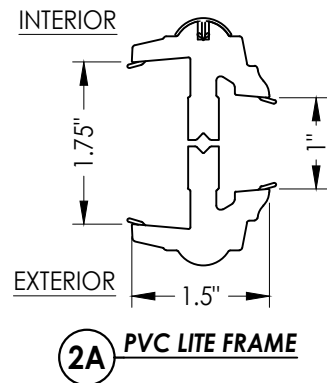
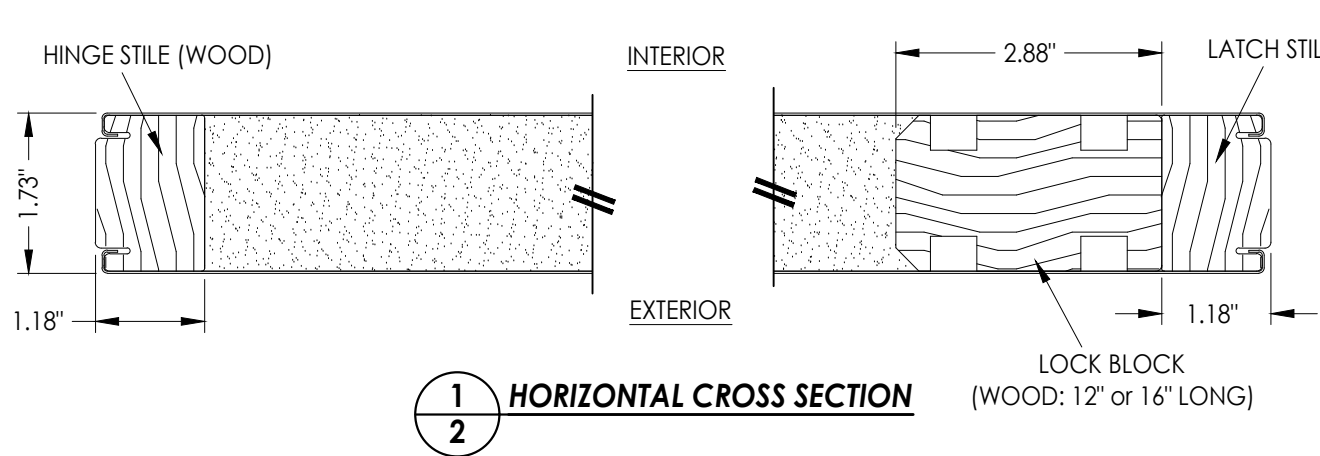
PRODUCT: NOVATECH
STEEL DOOR

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

NO.	DATE	REVISIONS
3	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

DATE: 6/15/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-20873.5
SHEET 1 OF 8

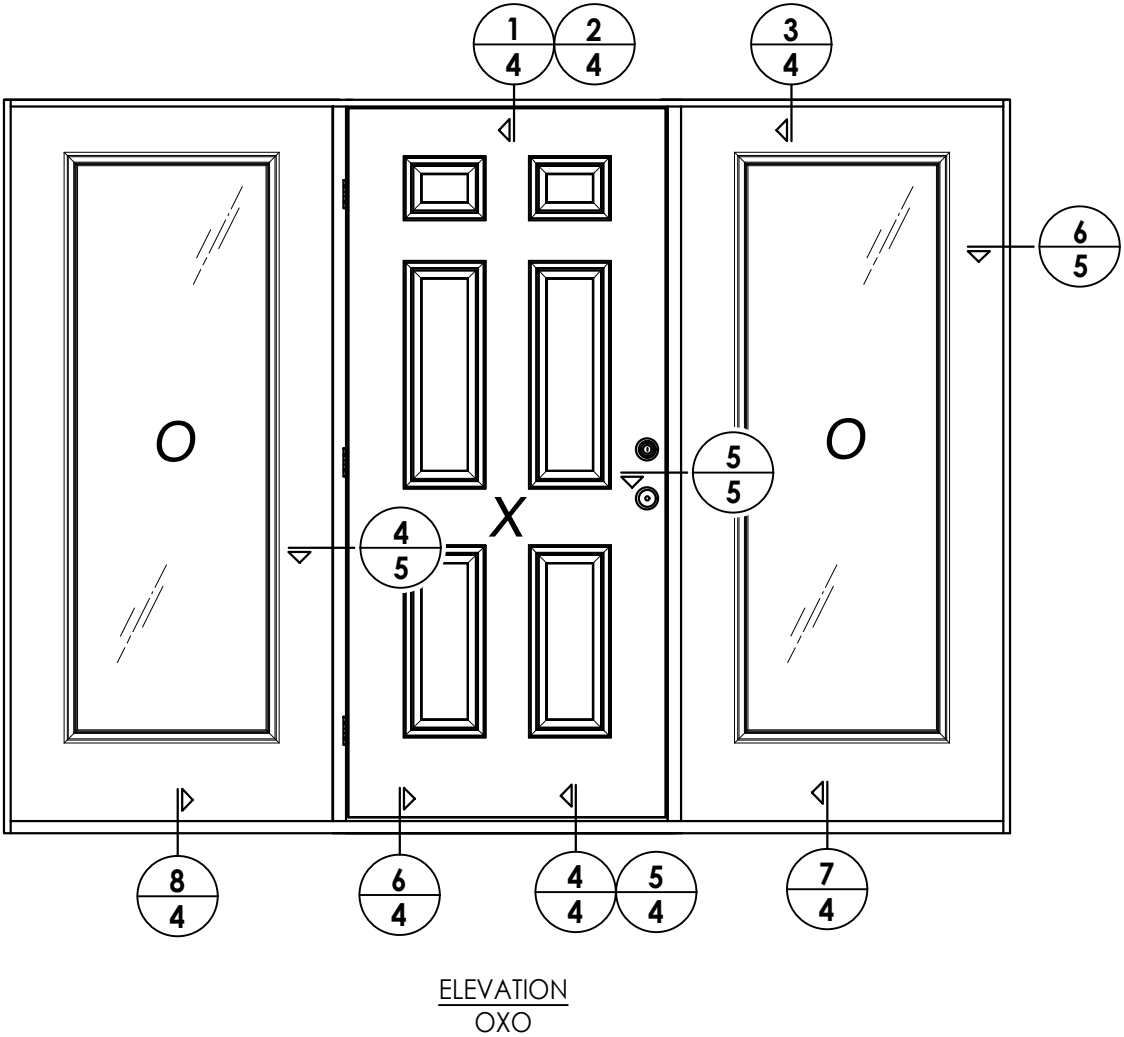
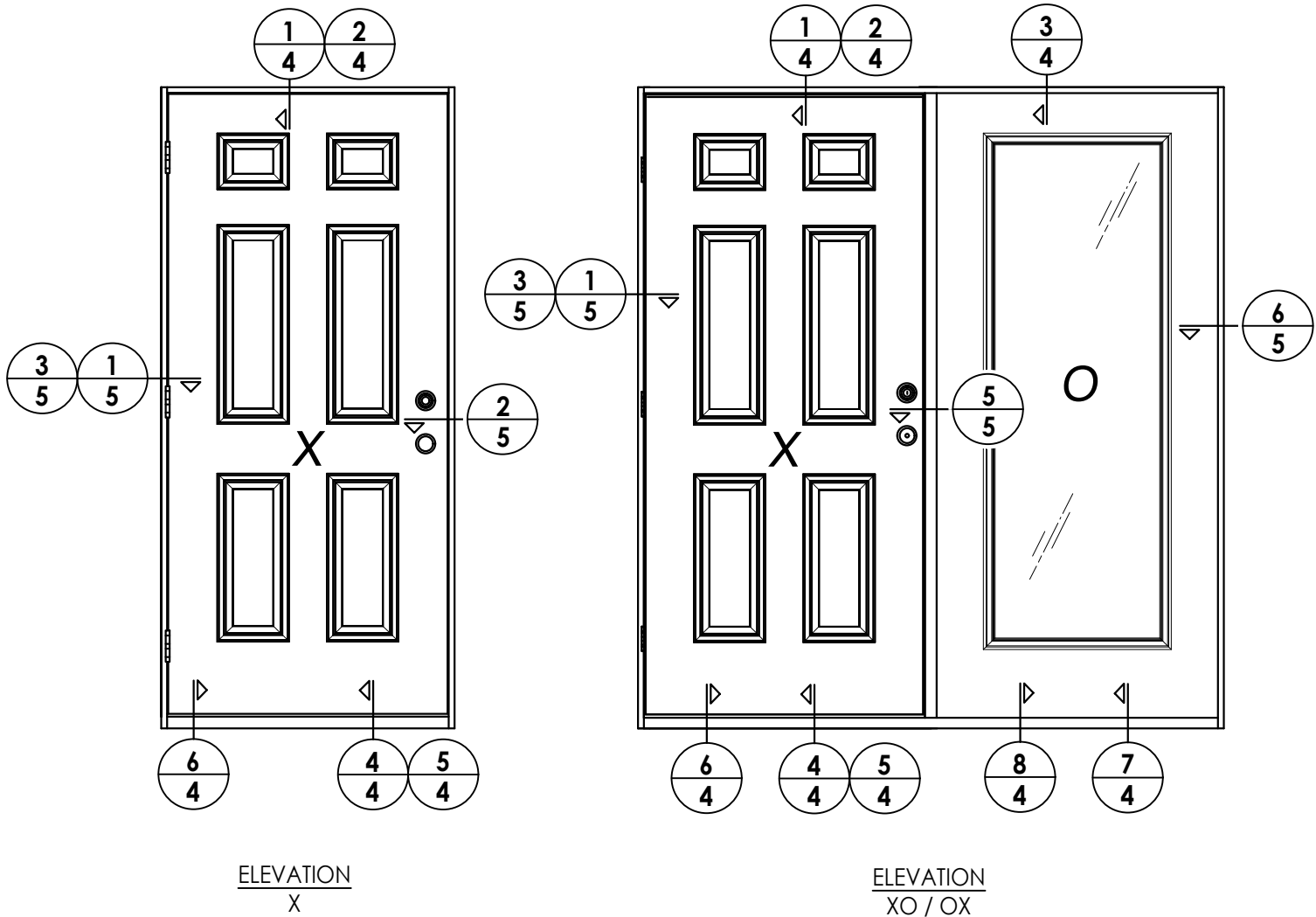
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DOOR/SIDELITE SKIN: 24 GA. STEEL (0.021" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (2.0 PCF MIN.)

DOOR LOCK HARDWARE TABLE			DESIGN PRESSURE (PSF)	
MANUFACTURER	MODEL		INSWING	OUTSWING
KWIKSET	KNOB:	SIGNATURE SERIES	+55.0/-65.0	+70.0/-70.0
	DEADBOLT:	SIGNATURE SERIES (980)		
SCHLAGE	KNOB:	F51	+70.0/-70.0	+70.0/-70.0
	DEADBOLT:	B60		

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: DOOR & SIDELITE PANEL DETAILS	
		LFS	
		FBC	
		FBC	
		FBC	
		JK	
		BY	
		NO.	DATE
		REVISIONS	
		DATE: 6/15/17	
		SCALE: N.T.S.	
		DWG. BY: JK	
		CHK. BY: LFS	
		DRAWING NO.: FL-20873.5	
		SHEET 2 OF 8	



DATE:	6/15/17		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-20873.5		
SHEET	3	OF	8

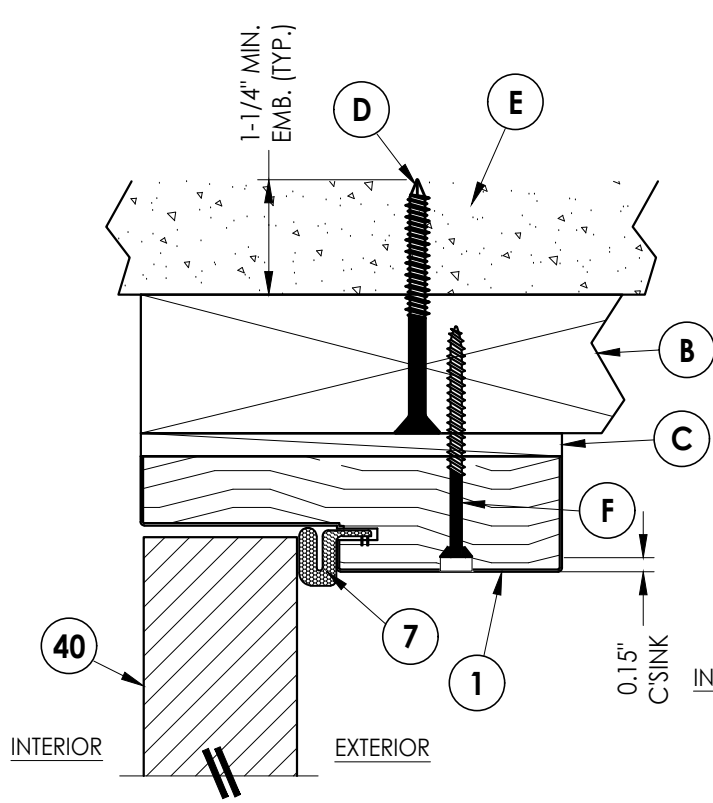
PRODUCT:	NOVATECH STEEL DOOR
PART OR ASSEMBLY:	ELEVATIONS

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

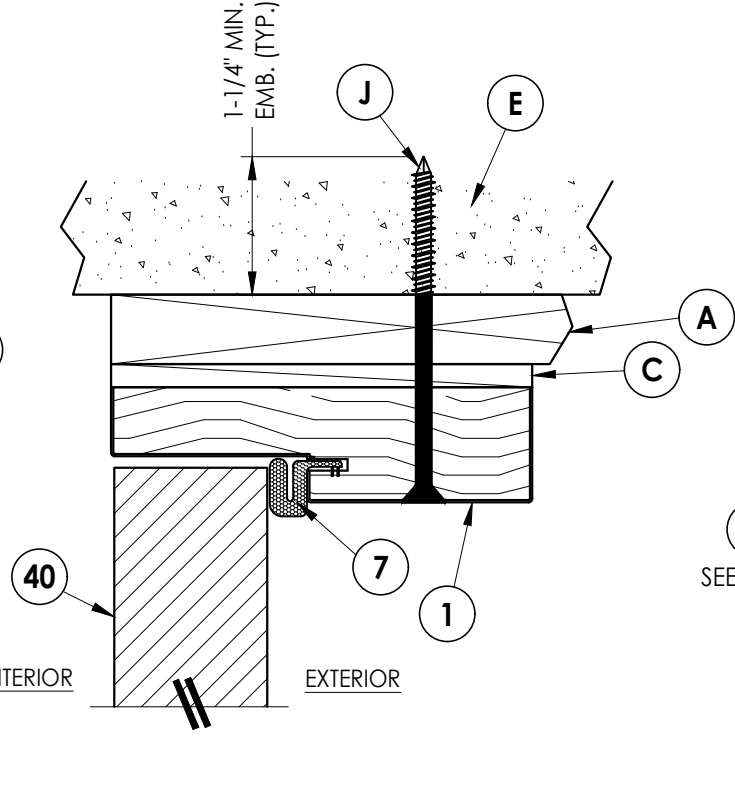
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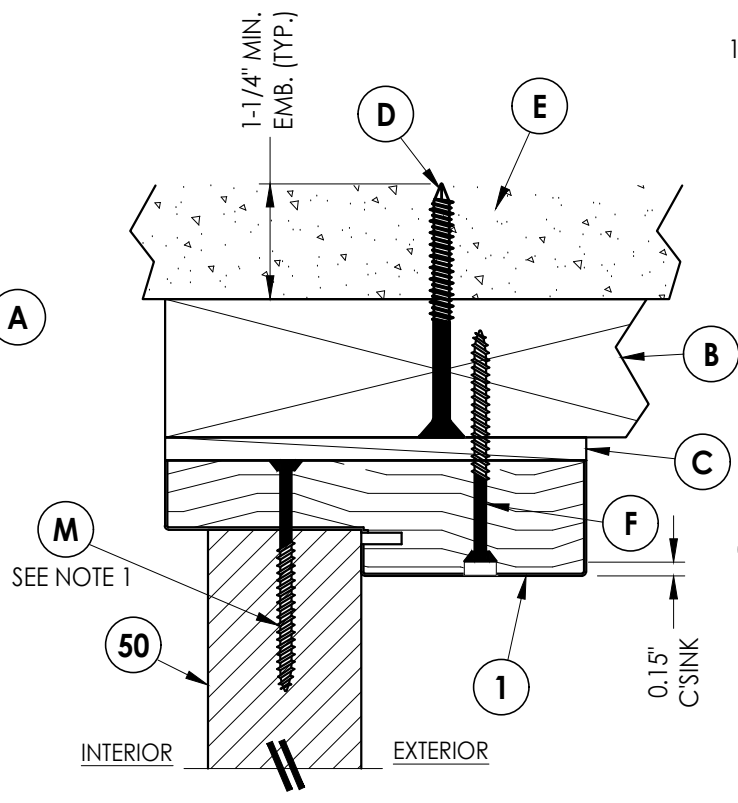
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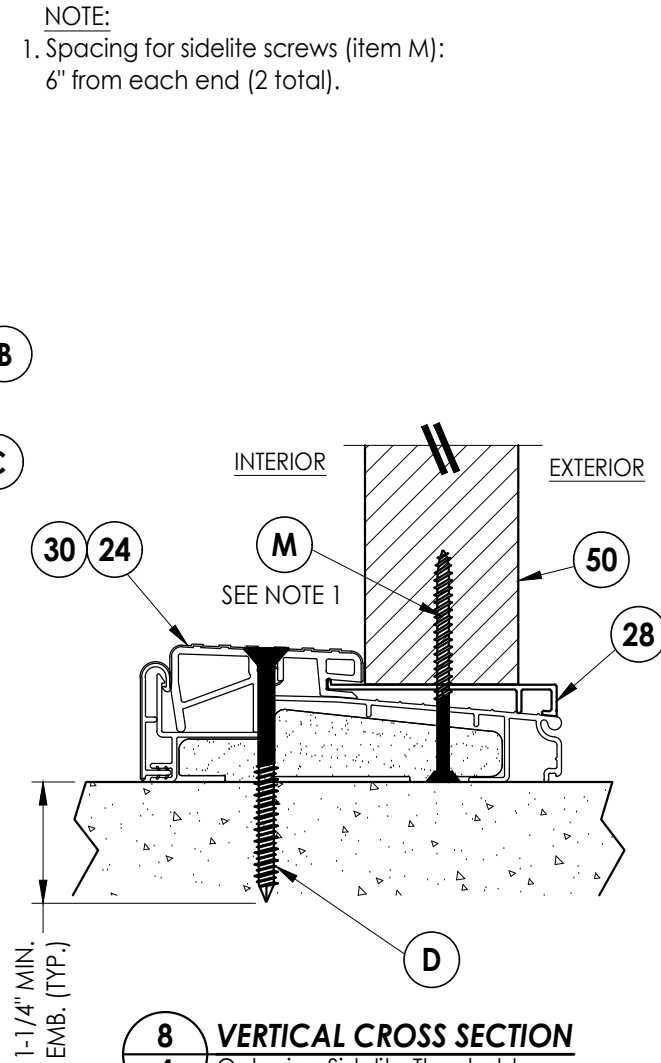
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4 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction



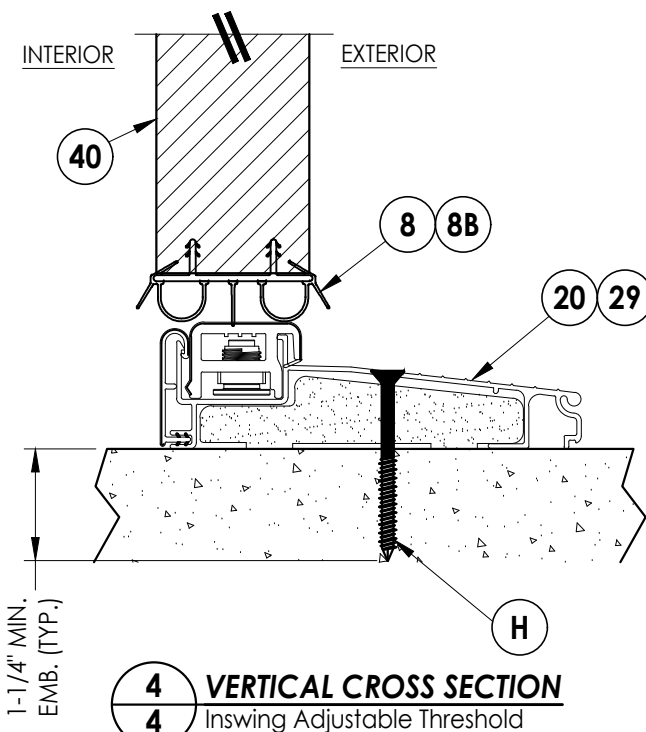
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4 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
1X Buck Construction



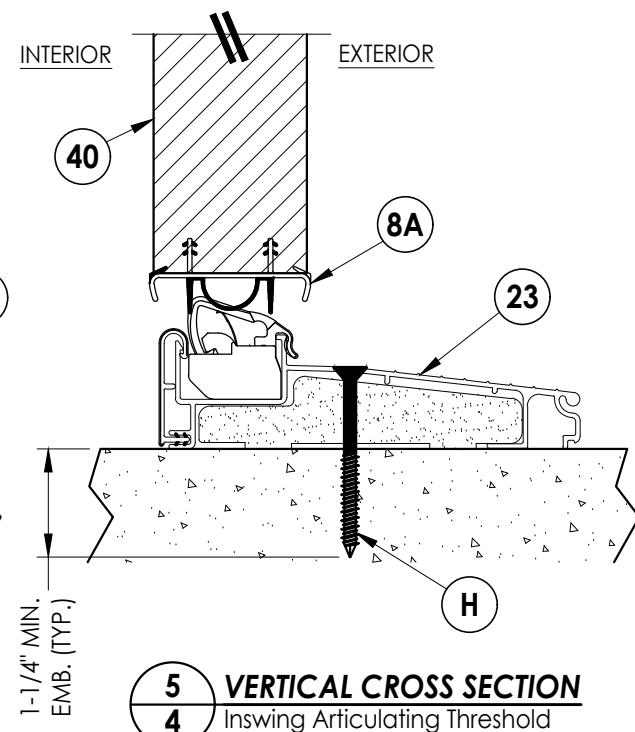
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Inswing shown (Outswing similar)
2X Buck Construction



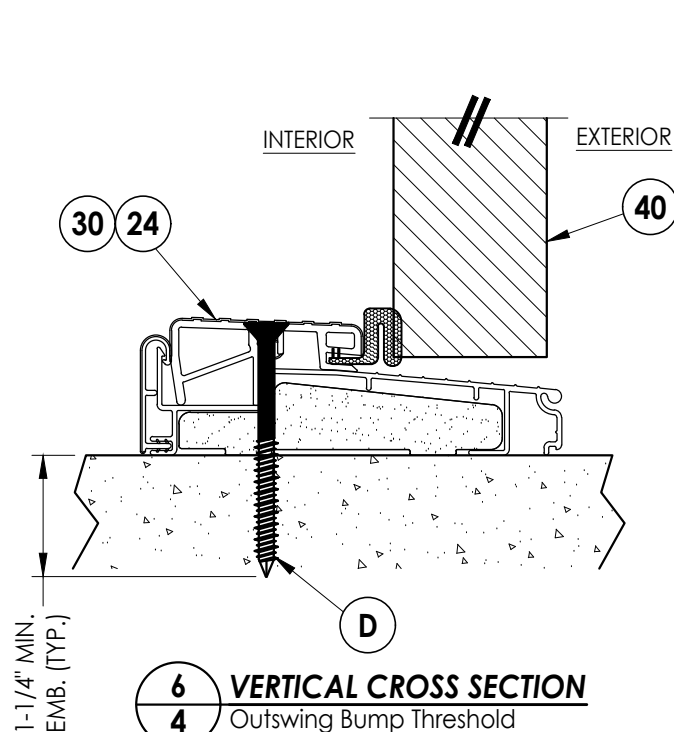
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4 **VERTICAL CROSS SECTION**
Outswing Sidelite Threshold



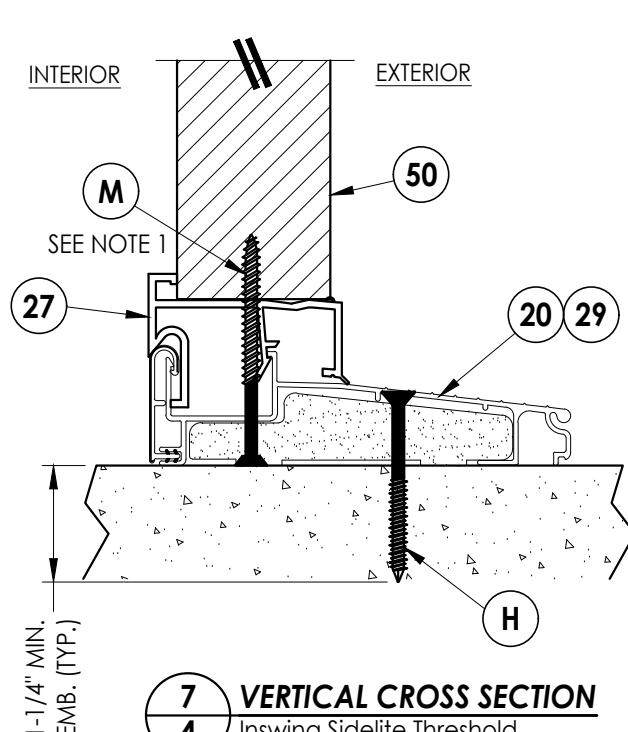
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4 **VERTICAL CROSS SECTION**
Inswing Adjustable Threshold



5
4 **VERTICAL CROSS SECTION**
Inswing Articulating Threshold



6
4 **VERTICAL CROSS SECTION**
Outswing Bump Threshold



7
4 **VERTICAL CROSS SECTION**
Inswing Sidelite Threshold

NOTE:
1. Spacing for sidelite screws (item M):
6" from each end (2 total).

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FBPE Registry No. 9813

PRODUCT:
NOVATECH
STEEL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS

NO.	DATE	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

DATE: 6/15/17

SCALE: N.T.S.

DWG. BY: JK

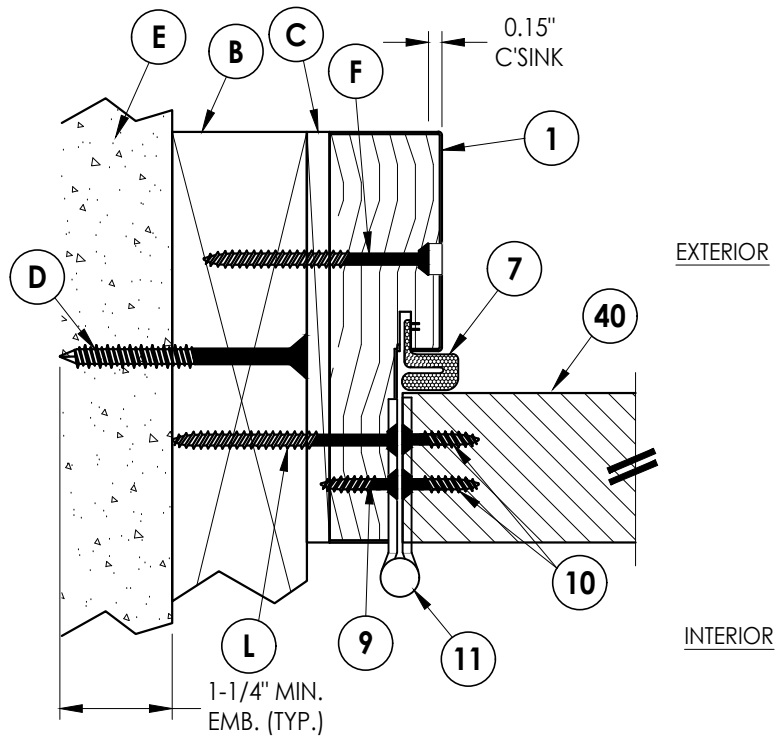
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DRAWING NO.:

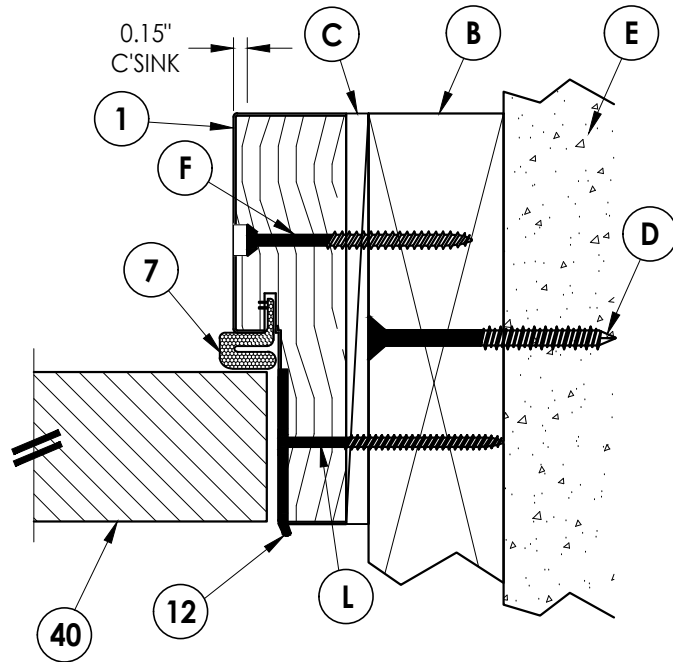
FL-20873.5

SHEET 4 OF 8

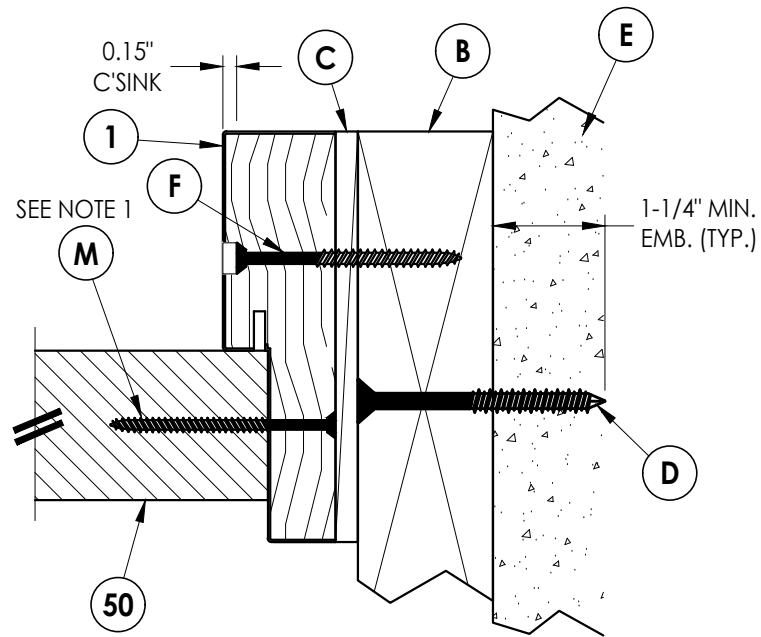
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1
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

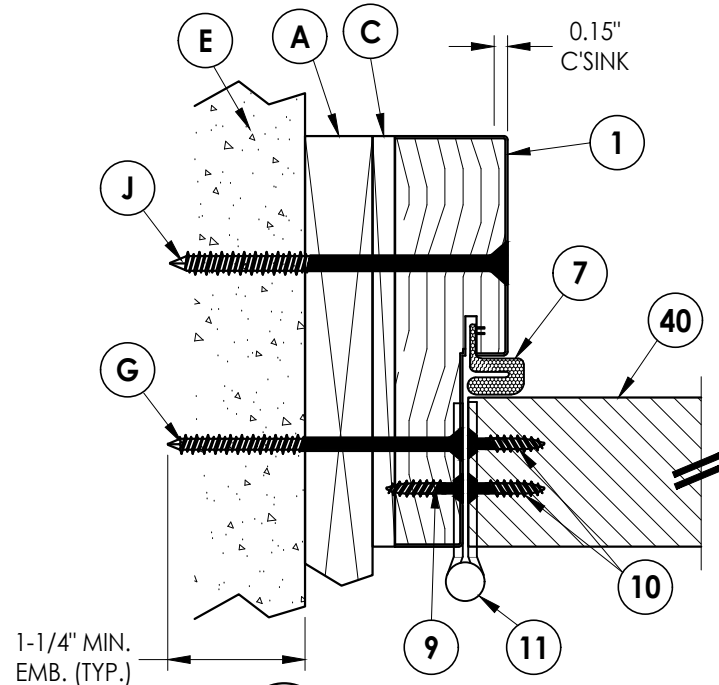


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5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

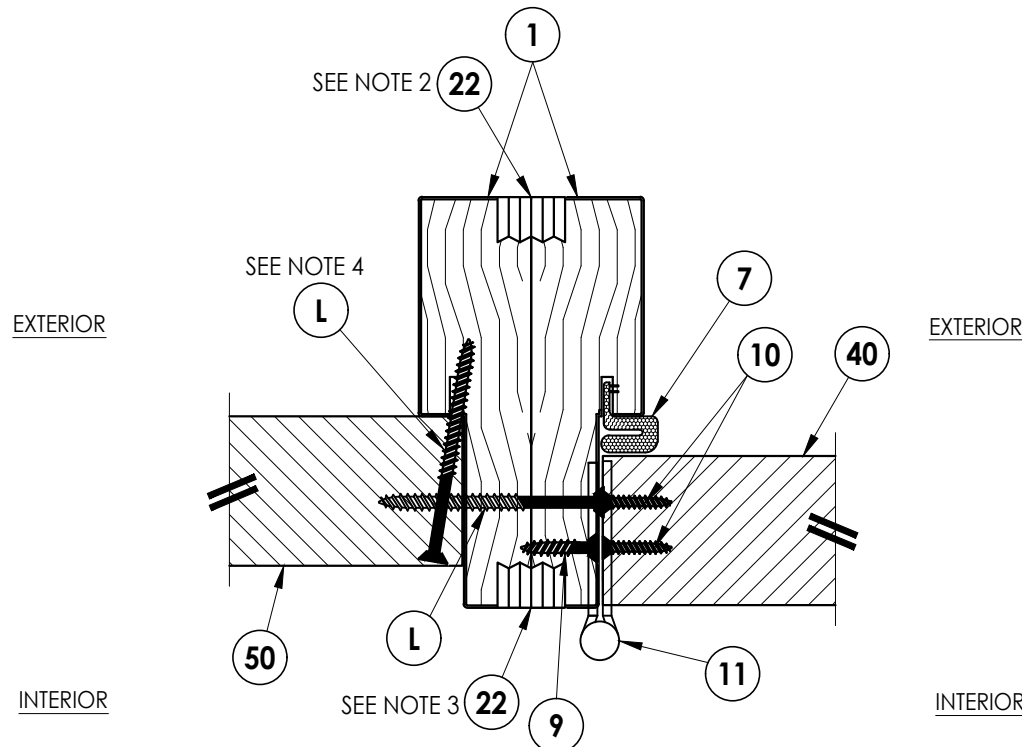


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5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

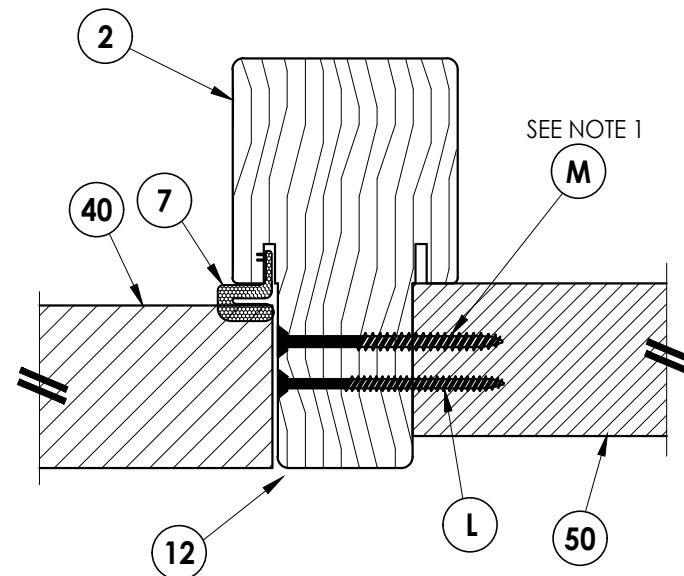
- NOTE:
1. Spacing for sidelite screws (item M): 6.5", 38.5" and 69" from head to sill (3 total).
 2. Item #22 located at 2" from each end and 6 more equally spaced (8 total).
 3. Item #22 located at 2" from each end and 5 more equally spaced (7 total).
 4. Item #L located at 6" from each end and 4 more equally spaced (6 total).



3
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
1X Buck Construction



4
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
Back to Back Jamb



5
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
Integral Mullion

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FBPE Registry No. 9813

PRODUCT:
NOVATECH
STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL CROSS
SECTIONS

NO.	DATE	REVISIONS
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1	10/05/17	UPDATE TO 6TH ED. (2017) FBC JK
NO.	DATE	BY

DATE: 6/15/17

SCALE: N.T.S.

DWG. BY: JK

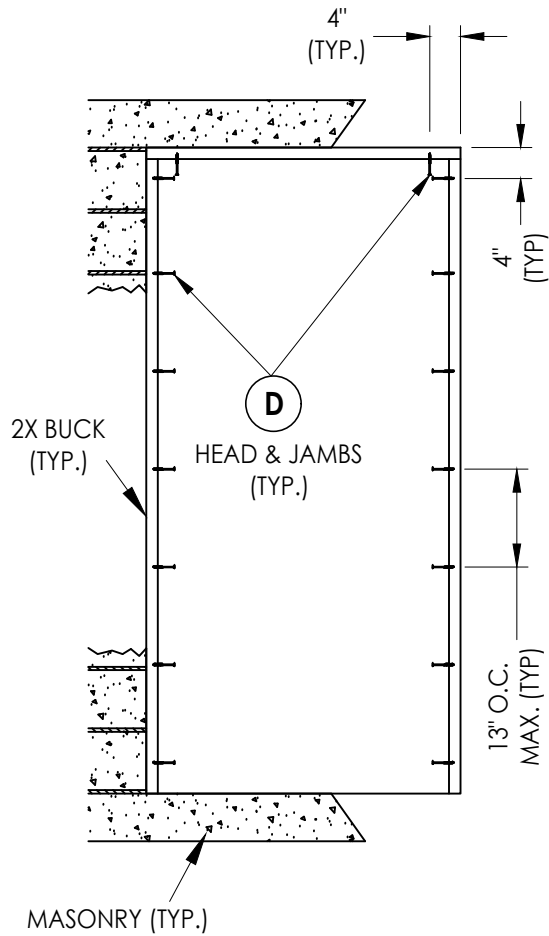
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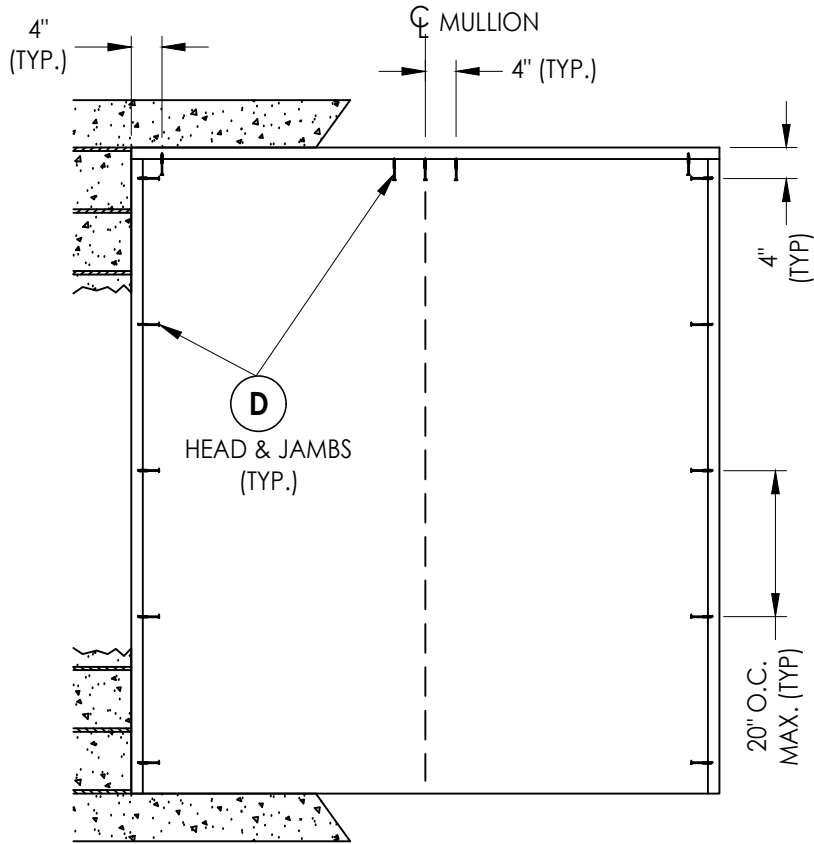
FL-20873.5

SHEET 5 OF 8

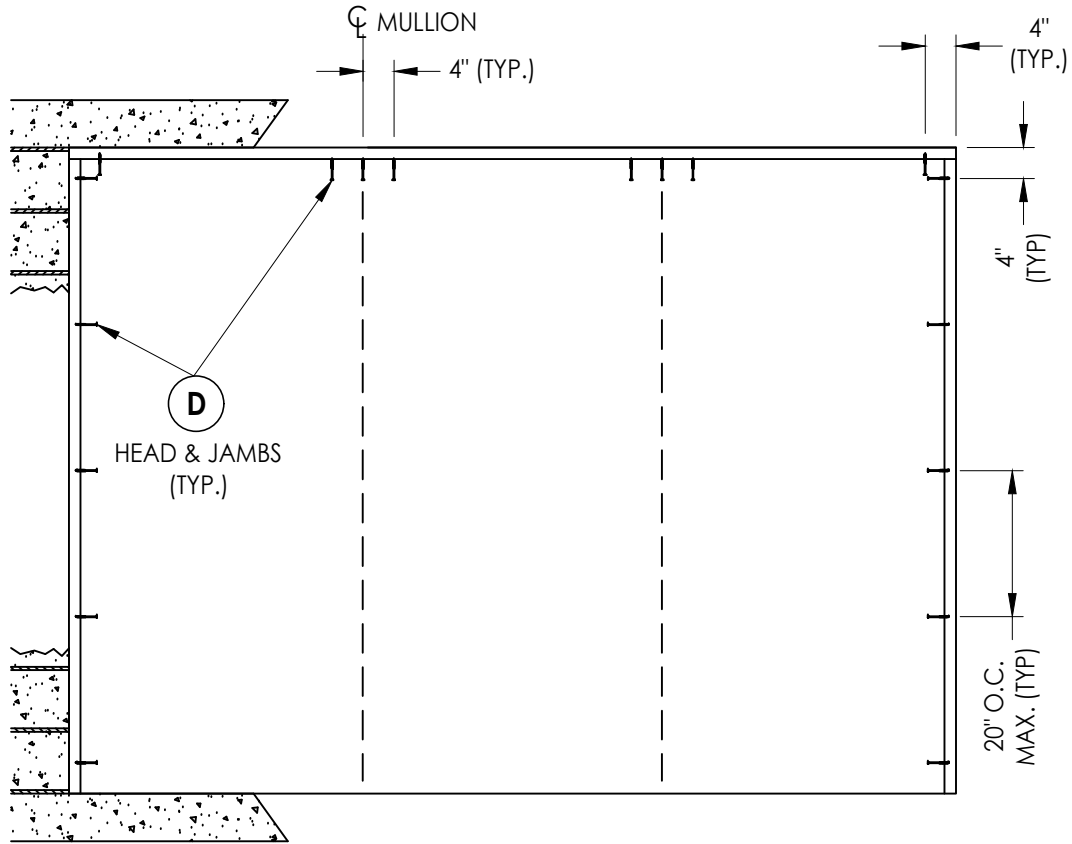
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X



XO / OX



OXO

2X BUCK ANCHORING

DATE: 6/15/17	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-20873.5	
SHEET 6	OF 8

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

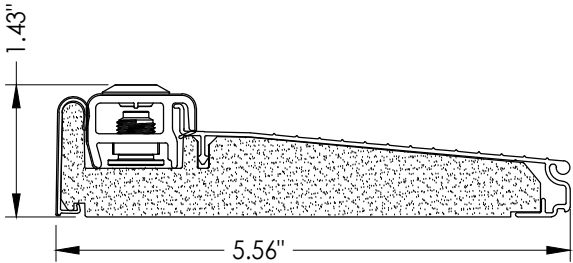
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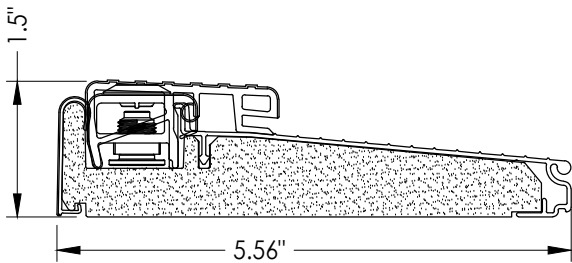
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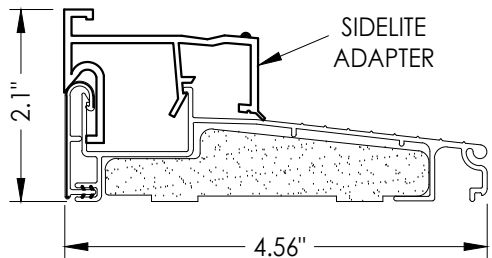
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#10 X 3" PFH WOOD SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW	STEEL
M	#8 X 2-1/2" PFH COURSE THREAD DRYWALL SCREW	STEEL
P	#10 X 1-3/4" PFH WOOD SCREW	STEEL
1	FINGER JOINT PINE JAMB (G >= 0.42)	WOOD
2	INTEGRAL MULLION (ENDURA FATBOY - PINE, G >= 0.42)	WOOD
7	WEATHERSTRIP (ENDURA)	FOAM
8	DOOR BOTTOM SWEEP	VINYL
8A	ARTICULATING SWEEP	VINYL
8B	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
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
20	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
22	CORRUGATED FASTENER 25 GA. (1" X 1/2")	ZINC
23	INSWING ARTICULATING THRESHOLD	ALUM/COMP
24	OUTSWING THRESHOLD	ALUM/COMP
27	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
28	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
29	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
30	OUTSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-



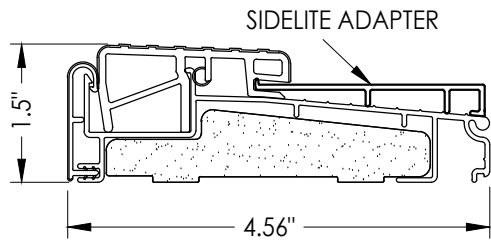
29 INSWING THRESHOLD
Endura (ZAIL)



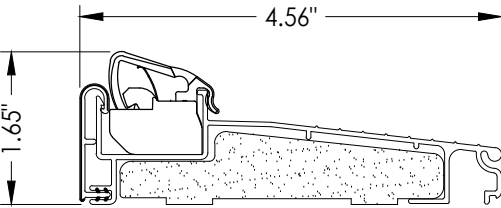
30 OUTSWING THRESHOLD
Endura (Z-Series)



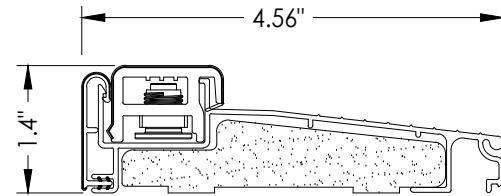
27 INSWING THRESHOLD w/ SIDELITE ADAPTER
Endura (Z-Series)



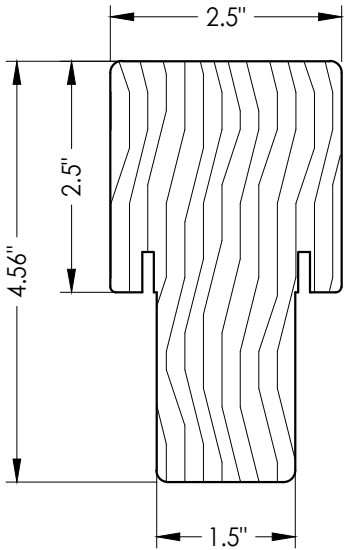
28 OUTSWING THRESHOLD w/ SIDELITE ADAPTER
Endura (Z-Series)



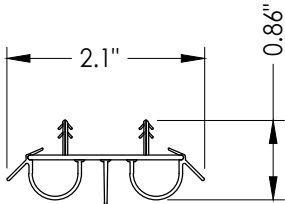
23 INSWING ARTICULATING THRESHOLD
Endura (Series ZACL4565)
Max. Design Pressure = +30/-35 PSF



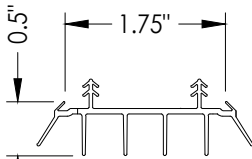
20 INSWING AJUSTABLE THRESHOLD
Endura (Series ZAIL4565)



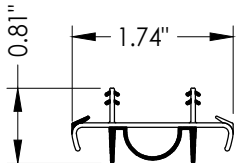
2 INTEGRAL MULLION



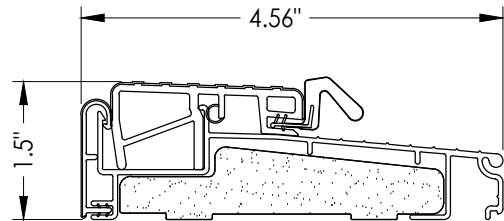
8 SWEEP



8B SWEEP



8A ARTICULATING SWEEP



24 OUTSWING THRESHOLD
Endura (ZOBL4565)

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FBPE Registry No. 9813

PRODUCT: NOVATECH
STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

DATE: 6/15/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20873.5

SHEET 8 OF 8

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