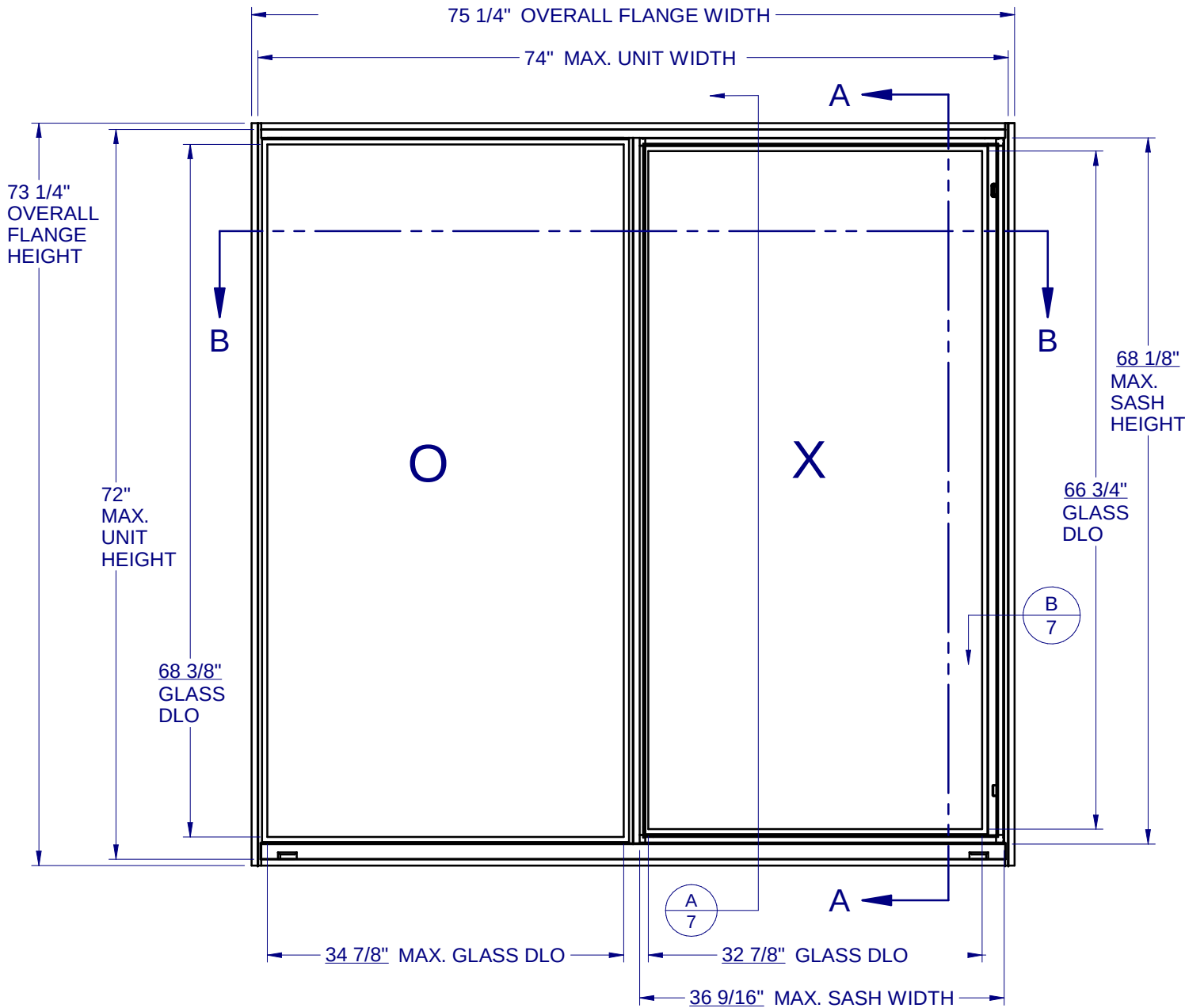


HORIZONTAL SLIDER - NON-IMPACT



GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE, (FBC) CURRENT EDITION.
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: "OX", "XO"
- 4. DESIGN PRESSURE RATINGS (SHEET 3)
 - NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
 - POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURES AND GLASS TABLES ASTM E-1300-04e01/09.
- 5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 7 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 6. NOT APPROVED FOR IMPACT RESISTANCE. IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
- 7. ALL FRAMES AND VENTS ARE SCREWED TOGETHER, SMALL JOINT SEAM SEALANT USED AT ALL FRAME JOINTS.
- 8. SERIES / MODEL DESIGNATION HS-7000.
- 9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
X = OPERABLE SASH, O = FIXED SASH
- 10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
- 11. WEEP SLOTS = 1/4" X 1" LOCATED 3 1/2" FROM BOTH ENDS.



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HORZ. SLIDER
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FLORIDA APPROVAL NO.:
7013



9/25/2023

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FL PE # 58201
Turner Engineering & Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

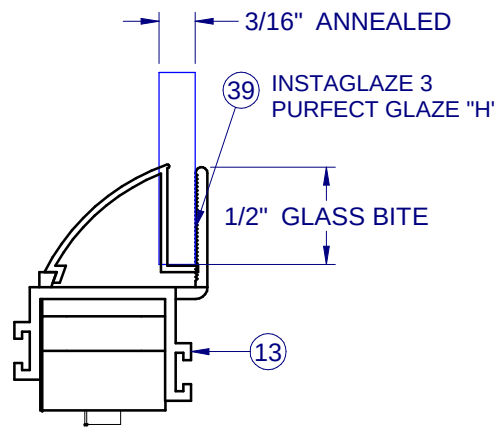
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GENERAL NOTES AND ELEVATIONS

DRAWN BY:	DATE:
MCS	9/22/2023
DWG #:	REV.:
CWS-487	D
SCALE:	SHEET
1:15	1 OF 7

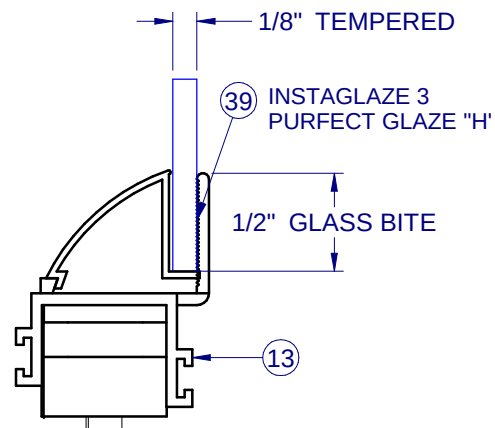
TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS.....1
GLAZING DETAILS.....2
COMPARATIVE ANALYSIS.....3
SECTION VIEWS.....4
BOM & EXTRUSIONS.....5
ANCHOR SCHEDULE & NOTES.....6
INSTALLATION DETAIL.....7

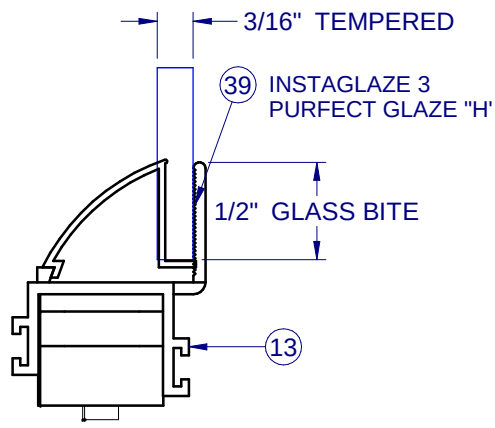
MEETING RAIL	DESIGN PRESSURE RATING	IMPACT RATING
STD	+/-25 PSF	NONE
HD	+/-30 PSF	NONE



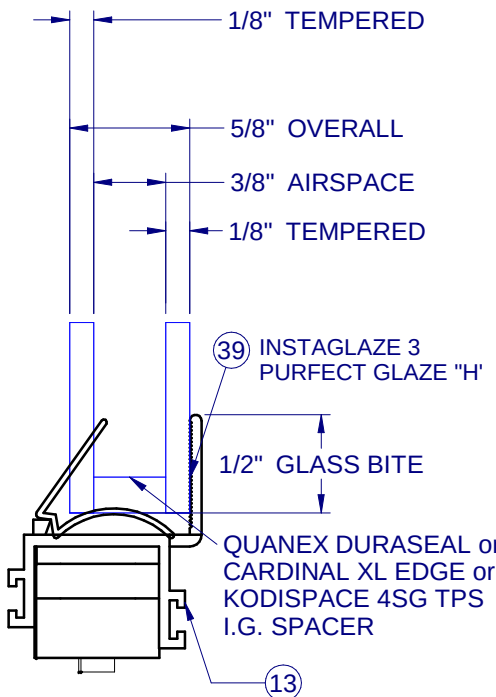
GLASS TYPE A



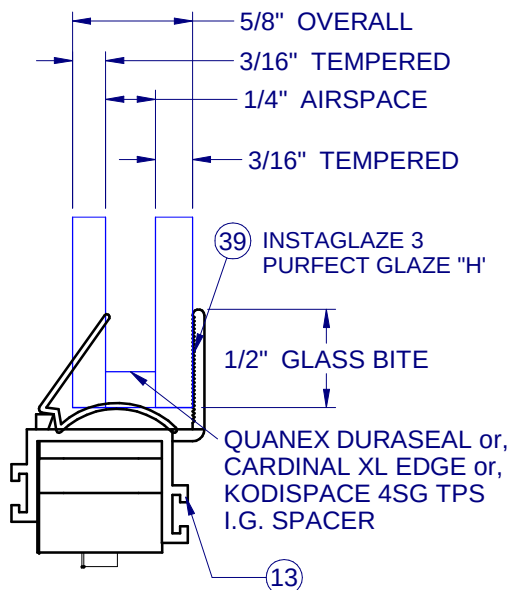
GLASS TYPE B



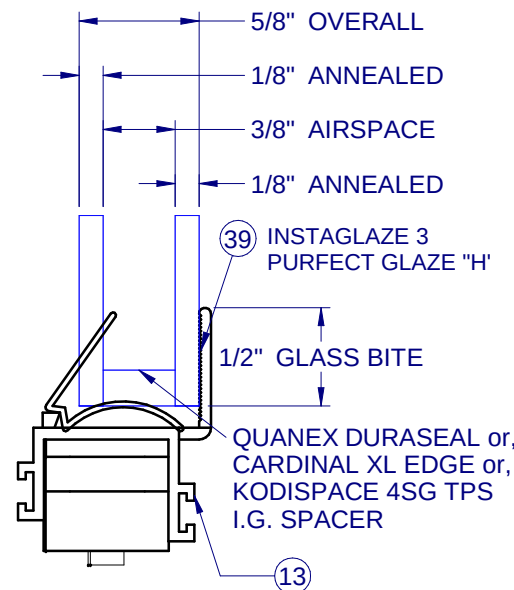
GLASS TYPE C



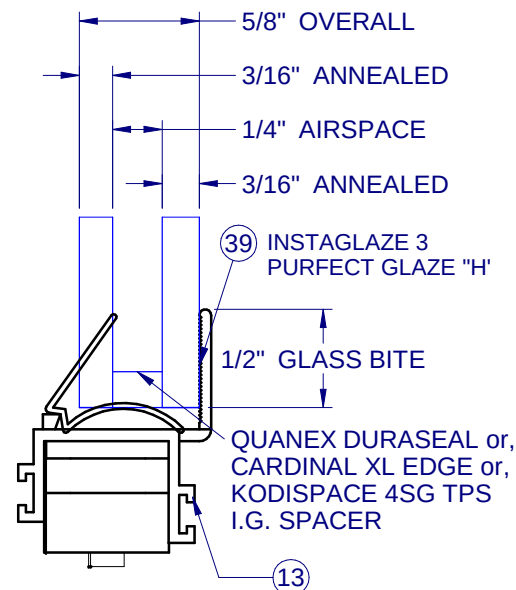
GLASS TYPE D



GLASS TYPE E



GLASS TYPE F



GLASS TYPE G



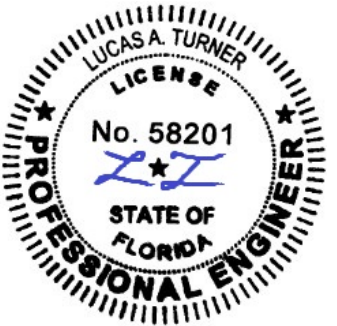
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2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

GLAZING DETAILS

DRAWN BY:	DATE:
MCS	9/22/2023
DWG #:	REV.:
CWS-487	D
SCALE:	SHEET
1:1	2 OF 7

DESIGN PRESSURES FOR STANDARD MTG. RAIL EQUAL SPLIT "O/X" or "X/O" CONFIG. WITH GLASS TYPES A, B, C, D, E, F, AND G												
Flange Width	Unit Width	Flange Height	26.000	32.750	38.375	44.750	50.625	56.750	63.000	66.750	72.000	73.250
		Unit Height	24.750	31.500	37.125	43.500	49.375	55.500	61.750	65.500	70.750	72.000
32.750	31.500	A,B,C,D,E,F,G	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -49.0
37.000	35.750	A,B,C,D,E,F,G	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -48.9	+25.0 / -44.8	+25.0 / -43.9
42.750	41.500	A,B,C,D,E,F,G	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -46.4	+25.0 / -43.3	+25.0 / -39.5	+25.0 / -38.7
48.750	47.500	A,B,C,D,E,F,G	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -47.8	+25.0 / -41.8	+25.0 / -38.9	+25.0 / -35.4	+25.0 / -34.7
53.125	51.875	A,B,C,D,E,F,G	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -50.0	+25.0 / -44.9	+25.0 / -39.1	+25.0 / -36.3	+25.0 / -33.0	+25.0 / -32.3
56.750	55.500	A,B,C,D,E,F,G	+25.0 / -45.0	+25.0 / -44.4	+25.0 / -44.4	+25.0 / -44.4	+25.0 / -44.4	+25.0 / -42.8	+25.0 / -37.2	+25.0 / -34.5	+25.0 / -31.4	+25.0 / -30.7
62.750	61.500	A,B,C,D,E,F,G	+25.0 / -37.6	+25.0 / -36.2	+25.0 / -36.2	+25.0 / -36.2	+25.0 / -36.2	+25.0 / -36.2	+25.0 / -34.7	+25.0 / -32.1	+25.0 / -29.1	+25.0 / -28.4
66.750	65.500	A,B,C,D,E,F,G	+25.0 / -33.9	+25.0 / -32.0	+25.0 / -31.9	+25.0 / -31.9	+25.0 / -31.9	+25.0 / -31.9	+25.0 / -31.9	+25.0 / -30.8	+25.0 / -27.8	+25.0 / -27.2
72.750	71.500	A,B,C,D,E,F,G	+25.0 / -29.6	+25.0 / -27.2	+25.0 / -26.8	+25.0 / -26.8	+25.0 / -26.8	+25.0 / -26.8	+25.0 / -26.8	+25.0 / -26.8	+25.0 / -26.2	+25.0 / -25.6
75.250	74.000	A,B,C,D,E,F,G	+25.0 / -28.1	+25.0 / -25.6	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0	+25.0 / -25.0

DESIGN PRESSURES FOR HEAVY DUTY MTG. RAIL EQUAL SPLIT "O/X" or "X/O" CONFIG. WITH GLASS TYPES A, B, C, D, E, F, AND G												
Flange Width	Unit Width	Flange Height	26.000	32.750	38.375	44.750	50.625	56.750	63.000	66.750	72.000	73.250
		Unit Height	24.750	31.500	37.125	43.500	49.375	55.500	61.750	65.500	70.750	72.000
32.750	31.500	A,B,C,D,E,F,G	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -58.8
37.000	35.750	A,B,C,D,E,F,G	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -58.7	+30.0 / -53.7	+30.0 / -52.7
42.750	41.500	A,B,C,D,E,F,G	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -55.7	+30.0 / -51.9	+30.0 / -47.4	+30.0 / -46.4
48.750	47.500	A,B,C,D,E,F,G	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -57.3	+30.0 / -50.1	+30.0 / -46.6	+30.0 / -42.5	+30.0 / -41.6
53.125	51.875	A,B,C,D,E,F,G	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -60.0	+30.0 / -53.8	+30.0 / -46.9	+30.0 / -43.6	+30.0 / -39.6	+30.0 / -38.8
56.750	55.500	A,B,C,D,E,F,G	+30.0 / -54.0	+30.0 / -53.3	+30.0 / -53.3	+30.0 / -53.3	+30.0 / -53.3	+30.0 / -51.4	+30.0 / -44.7	+30.0 / -41.5	+30.0 / -37.6	+30.0 / -36.8
62.750	61.500	A,B,C,D,E,F,G	+30.0 / -45.2	+30.0 / -43.4	+30.0 / -43.4	+30.0 / -43.4	+30.0 / -43.4	+30.0 / -43.4	+30.0 / -41.6	+30.0 / -38.5	+30.0 / -34.9	+30.0 / -34.1
66.750	65.500	A,B,C,D,E,F,G	+30.0 / -40.7	+30.0 / -38.3	+30.0 / -38.3	+30.0 / -38.3	+30.0 / -38.3	+30.0 / -38.3	+30.0 / -38.3	+30.0 / -36.9	+30.0 / -33.3	+30.0 / -32.6
72.750	71.500	A,B,C,D,E,F,G	+30.0 / -35.5	+30.0 / -32.6	+30.0 / -32.1	+30.0 / -32.1	+30.0 / -32.1	+30.0 / -32.1	+30.0 / -32.1	+30.0 / -32.1	+30.0 / -31.4	+30.0 / -30.7
75.250	74.000	A,B,C,D,E,F,G	+30.0 / -33.7	+30.0 / -30.7	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0	+30.0 / -30.0

NOTE:

1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.



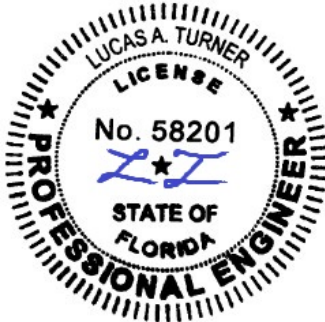
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2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

COMPARATIVE
ANALYSIS

DRAWN BY:

MCS

DATE:

9/22/2023

DWG #:

CWS-487

REV.:

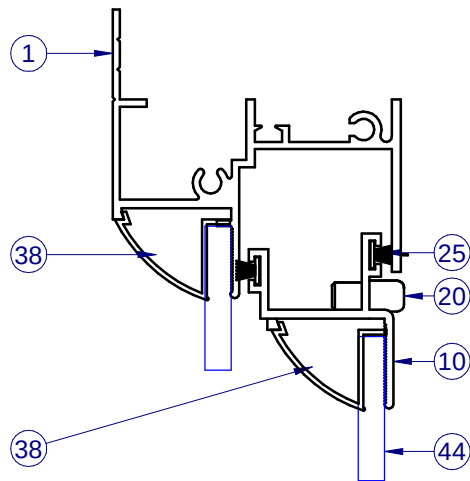
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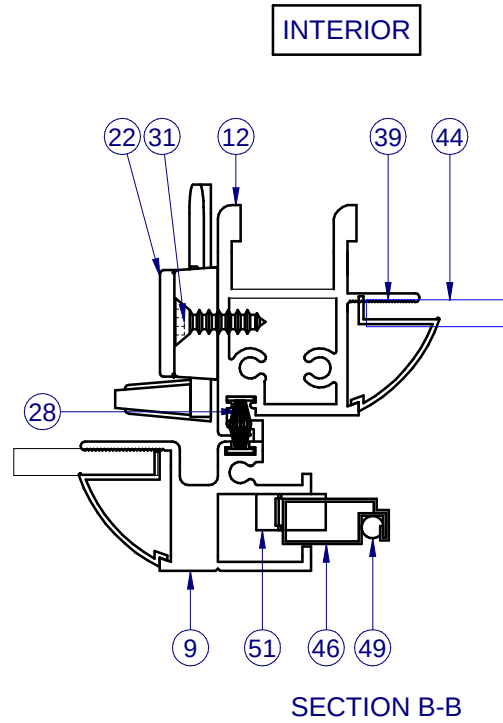
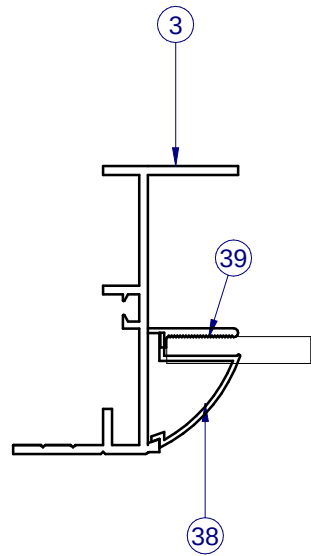
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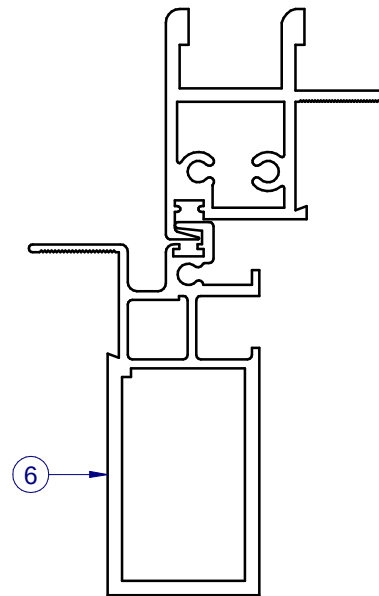
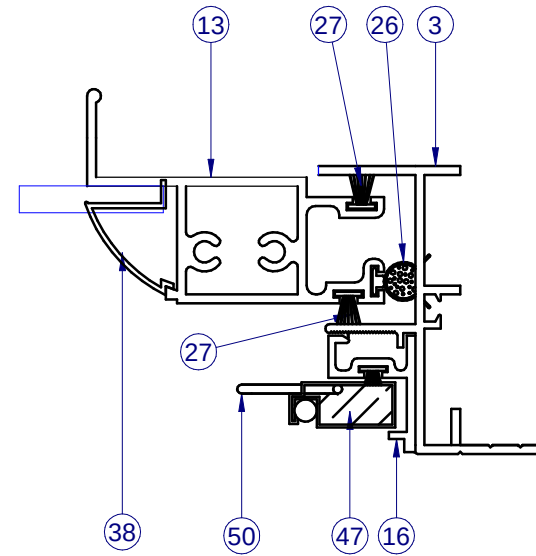
3 OF 7



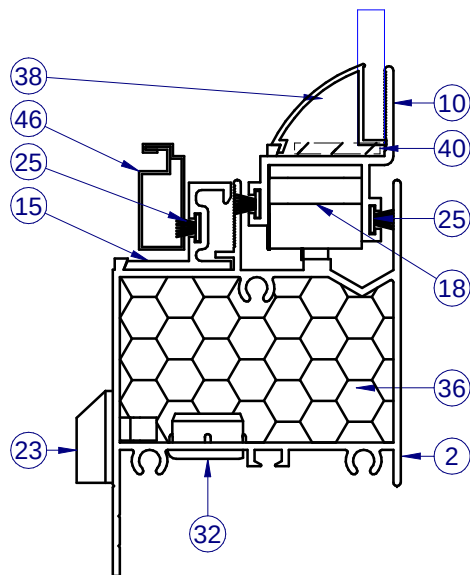
SECTION A-A



SECTION B-B



ALTERNATE HD FIXED RAIL



INTERIOR

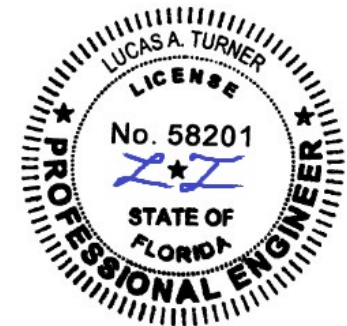
INTERIOR

ITEMS USED BUT NOT SHOWN FOR CLARITY:
14,17,19,21,29,30,33-35,37,41-43,48

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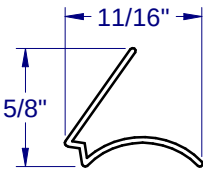
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FL PE # 58201
Turner Engineering &
Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

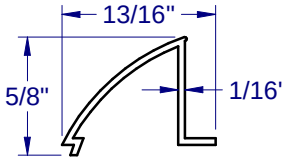
SECTION VIEWS

DRAWN BY:	DATE:
MCS	9/22/2023
DWG #:	REV.:
CWS-487	D
SCALE:	SHEET
1:1	4 OF 7

PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	S-1077	Fr. Head, Flg.	Alum
2	H-1140	Fr. Sill, HS-7000	Alum
3	S-1043	Fr. Jamb, HS-7000	Alum
6	H-1569	HD Fixed Mtg Rail	Alum
9	S-1563	Fxd. Mtg. Rail	Alum
10	S-1073	Sash Rail	Alum
12	H-1138	Sash Meet. Rail	Alum
13	H-1181	Sash Bot./Pull Rail	Alum
15	S-1074	Scrn. Adapt., w/o leg, Horiz.	Alum
16	S-1642	Screen Adapter/Jamb (HS-7000)	Alum
17	S-1465	Install Clip	Alum
18	P-3804	Roller Assm., Tandem	Nylon
19	P-3042	Sash End Cap	Nylon
20	P-3044	Anti-Lift Stop	Nylon
21	P-3043	Sash Stop	Rubber
22	P-4707	SWEEP LOCK, AMBIDEXTROUS (3500/7000)	Plastic
23	P-3100	Weep Cover, open	Nylon
25	P-3309	Wstp., 0.210 x .187 back FinSeal, Black, SoftTouch	
26	P-3011	Wstp., 0.350 x .187 back, foam filled bulb w/wands	
27	P-3305	Wstp., 0.270 x .187 back FinSeal, Black, SoftTouch	
28	P-3304	Wstp., .180 x .187 Back, Fin, UltraFin	
29	P-4144	#8 x 1.000 w/ 1/4 lead Quad Type A SMS	Steel
30	P-3635	#8 x 0.750 Quad PH Type A SMS	Steel
31	P-3515	#8 x 0.625 Ph FH Type A SMS	Steel
32	P-3034	Plug, HS-7000, at FMR	Nylon
33		Seam Sealer, SM-5504	Silicone
34	P-3257	Gasket, Hd. & Sill at Jb., SH-3500	Closed Cell
35	P-3048	Gasket, Sill, HS-7000	Closed Cell
36	P-3397	Open Cell Foam Pad	Open Cell
37	P-3003	Shipping Clip	Nylon
38	P-3020	INSULATED GLAZING BEAD (5/8" for ALUM)	PVC
39		SikaFlex 552, Purfect Glaze "H"	
40	P-3352	Set. Blk., 85 Dur., 1/8" x 5/8" x 2" Lg.	Rubber
44	GLASS	SEE SHEET 2	
46	P-3218	Screen Frame	RollForm
47	P-4754	SCREEN CORNER KEY	RollForm
48	P-4772	40"- BetterVue Charcoal Screen, 18x16	
49	P-5576	Screen Spline, .125" Black PE Ribbed	
50	P-4755	SCREEN CORNER KEY (Rollform Scrn 1" Offset "w/ safety tab")	
51	P-3195	SPRING, NO HOLE TENSION C-8400	
52	P-3431	GLAZING BEAD, SINGLE GLAZED	



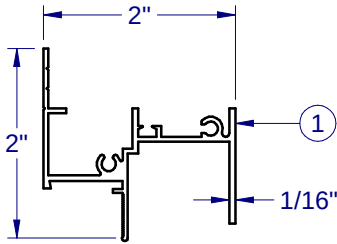
INSULATED GLAZING BEAD P-3020



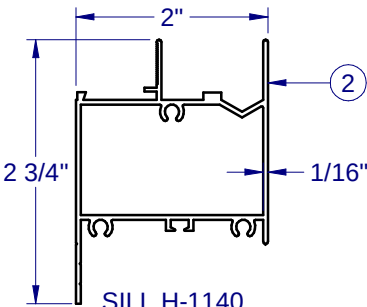
MONOLITHIC GLAZING BEAD P-3431

LINE ITEMS NOT USED:
5, 7, 8, 14, 24, 45

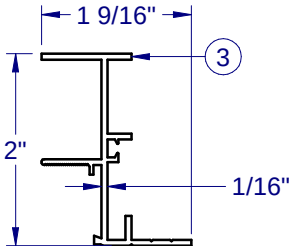
NOTE: ALL ALUMINUM EXTRUSION ARE 6063-T6 UNLESS OTHERWISE NOTED.



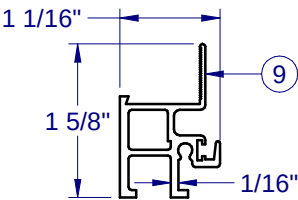
FLANGE HEAD S-1077



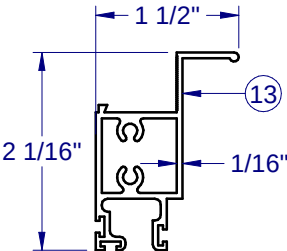
SILL H-1140



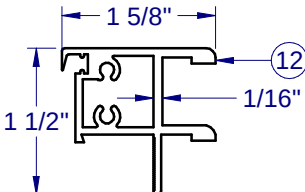
FLANGE JAMB S-1043



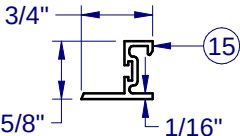
FIXED RAIL H-1563



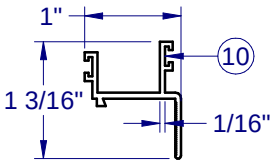
LIFT RAIL H-1181



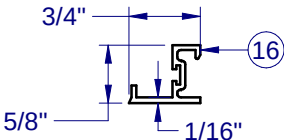
PULL RAIL H-1138



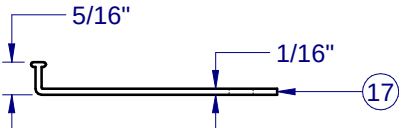
SCREEN CATCH S-1074



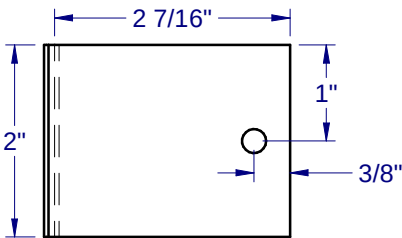
SASH TOP/BOT RAIL S-1073



SCREEN CATCH S-1642

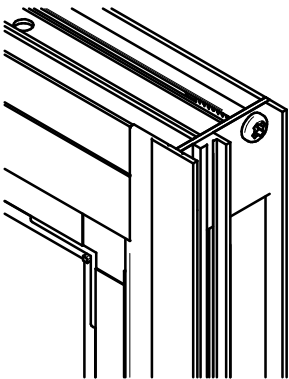


ANCHOR CLIP - 1465

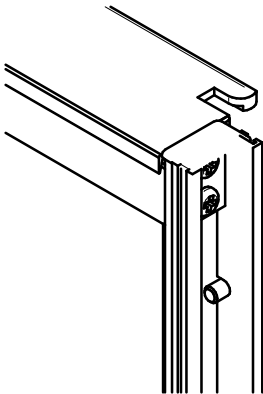


PLAN VIEW - 1465

FRAME CORNER CONSTRUCTION



SASH CORNER CONSTRUCTION



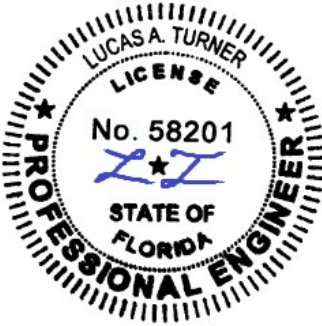
1900 SW 44TH AVE.
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**7000 ALUM.
HORZ. SLIDER
NON-IMPACT**

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FLORIDA APPROVAL NO.:

7013



9/25/2023

LUCAS A. TURNER, P.E.
FL PE # 58201
Turner Engineering &
Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DRAWN BY:

MCS

DATE:

9/22/2023

DWG #:

CWS-487

REV.:

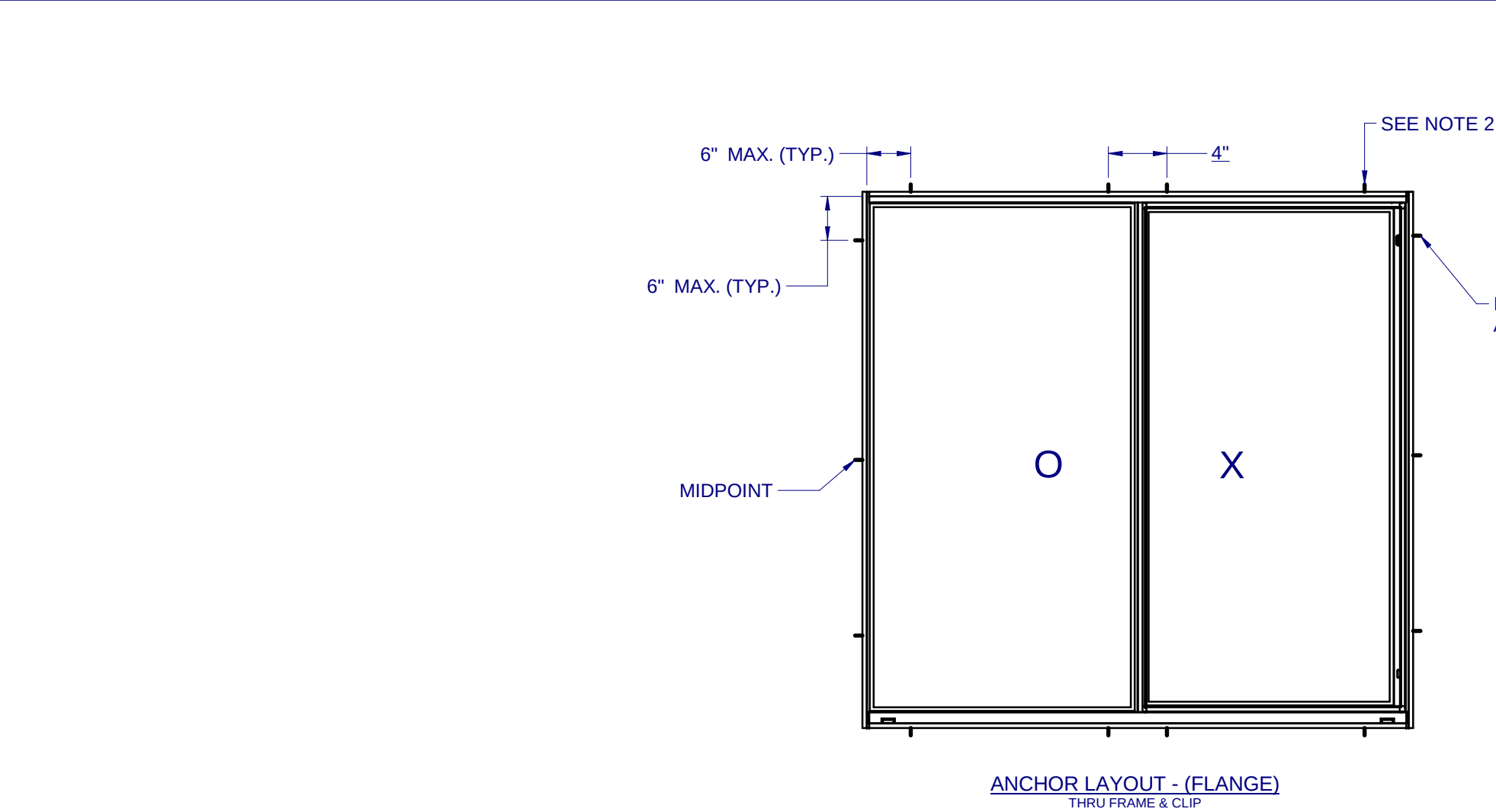
D

SCALE:

1:2

SHEET

5 OF 7



NOTES:

1. INSTALL ONE ANCHOR AT EACH LOCATION THRU WINDOW FRAME. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4" USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 7.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 7.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM 3" CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL MASONRY FASTENERS. A MINIMUM 1" CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL WOOD AND METAL FASTENERS.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE1, SHEET 7. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:
FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)



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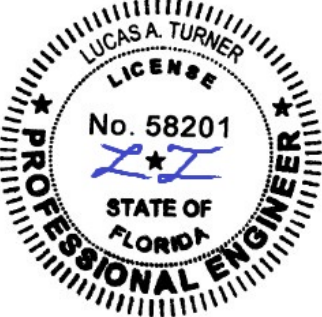
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SHEET DESCRIPTION:

ANCHOR SCHEDULE AND NOTES

DRAWN BY:	DATE:
MCS	9/22/2023
DWG #:	REV.:
CWS-487	D
SCALE:	SHEET
1:20	6 OF 7

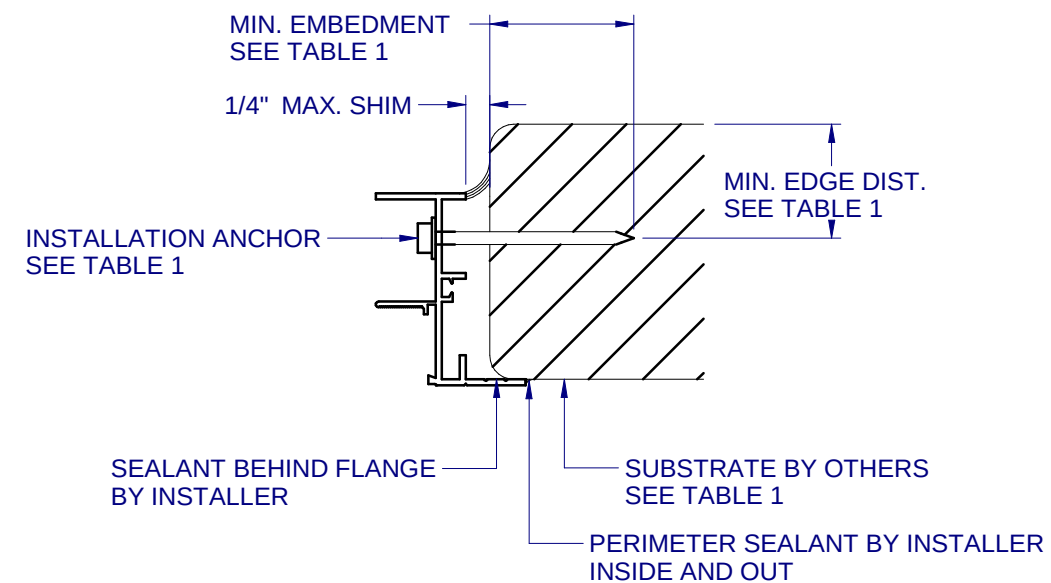
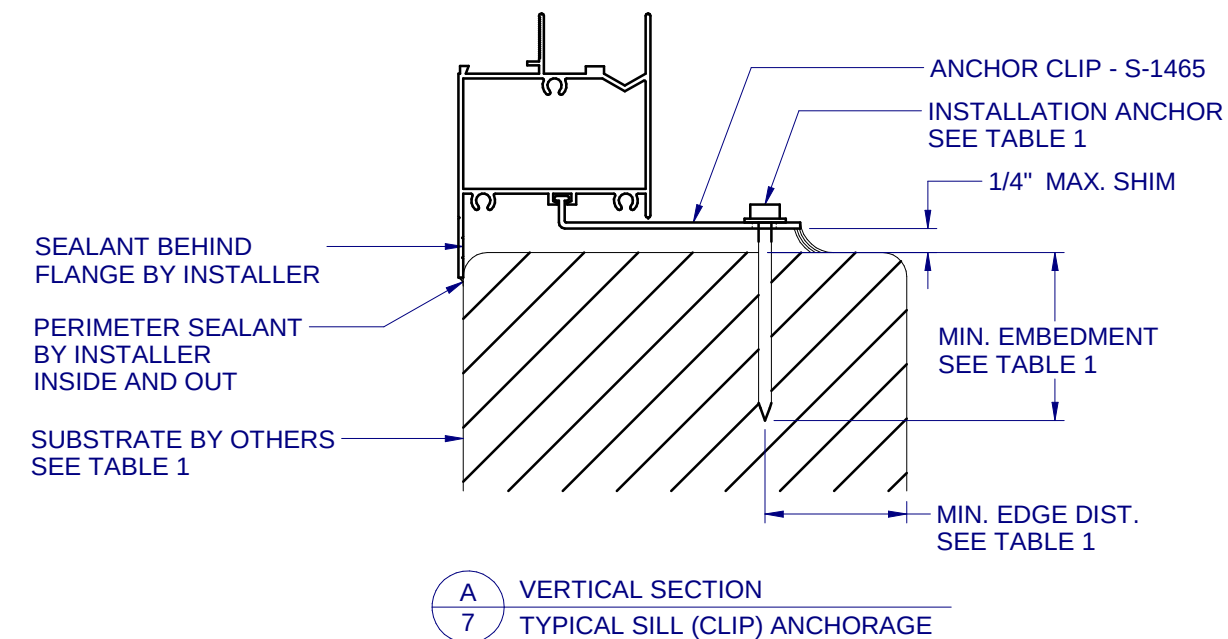
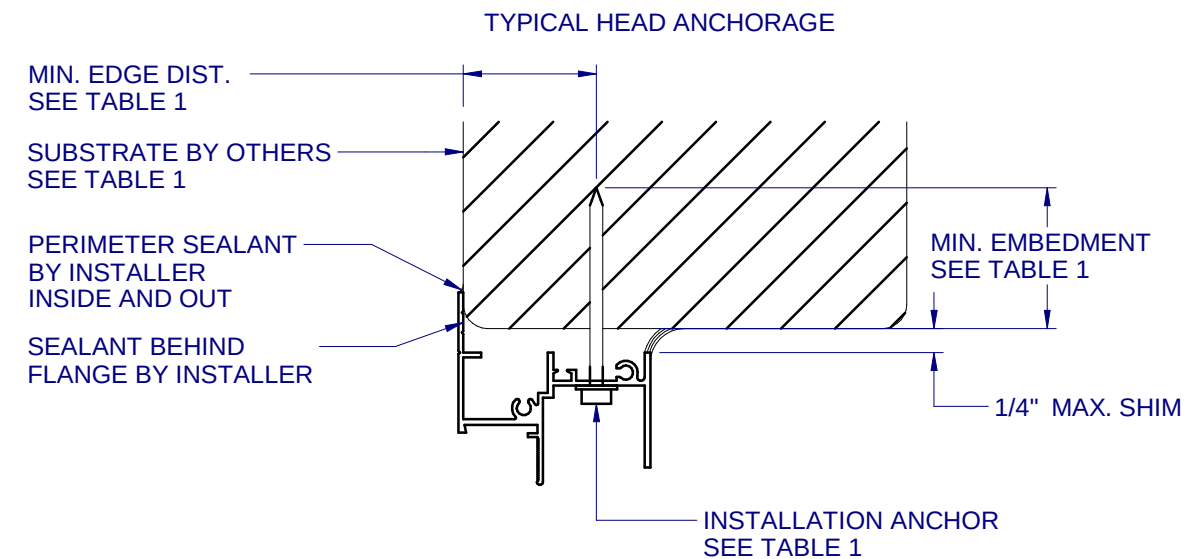


TABLE 1: APPROVED INSTALLATION FASTENERS			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
2x MIN. SPRUCE-PINE-FIR WOOD (G=0.42 MIN.)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
2x MIN. SPRUCE-PINE-FIR WOOD (G=0.42 MIN.)	#10 WOOD SCREW	1-3/8"	7/8"
16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING	FULL THREAD THRU 0.060"	1/2"
1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	1/2"



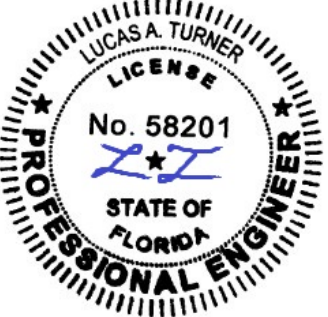
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SHEET DESCRIPTION:
**INSTALLATION DETAILS -
CLIP SHOWN**

DRAWN BY: MCS	DATE: 9/22/2023
DWG #: CWS-487	REV.: D
SCALE: 1:2	SHEET 7 OF 7