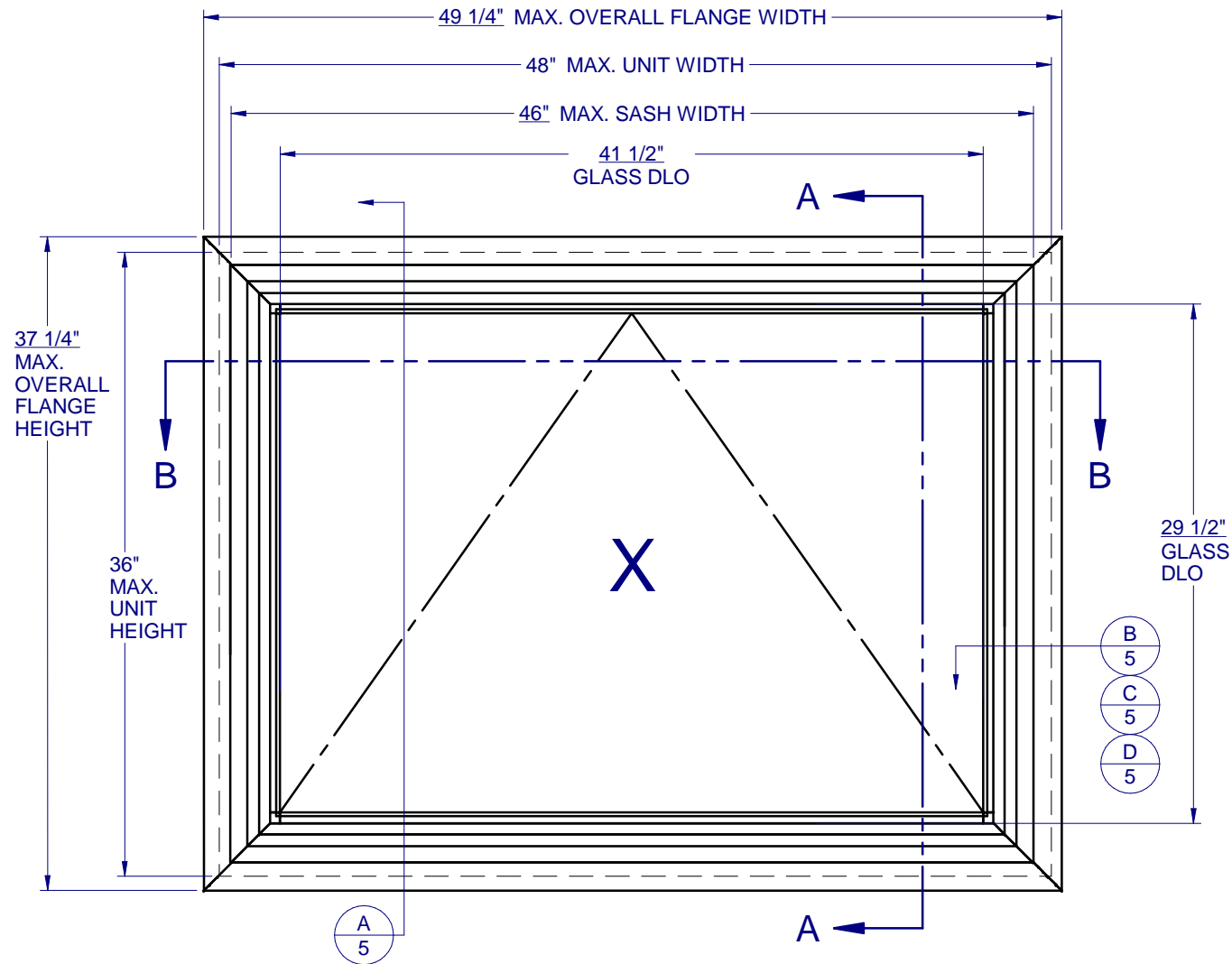


AWNING - LARGE MISSILE IMPACT

GENERAL NOTES:

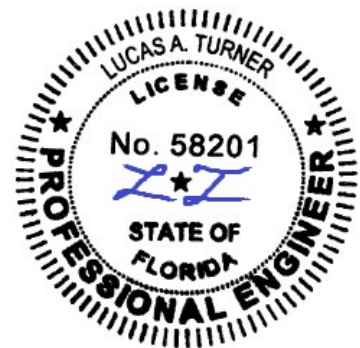
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: ALL WINDOWS ARE OPEN FROM BOTTOM TO OUTSIDE.
4. DESIGN PRESSURES:
 - 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 PRESSURE, 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 5 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
7. ALL FRAMES AND VENTS FULLY WELDED.
8. SERIES/MODEL DESIGNATION AW-8450.
9. THE DESIGNATION X STANDS FOR THE FOLLOWING:
X = OPERABLE SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.



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8450 PVC AWNING IMPACT

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8/05/2020

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Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

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DWG #: CWS-163	REV.: E
SCALE: 1:10	SHEET 1 OF 5

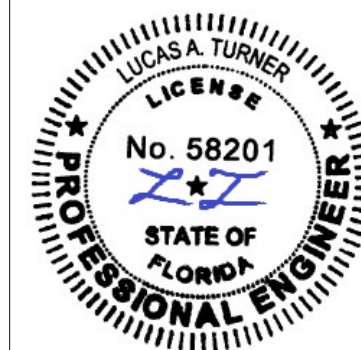
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GENERAL NOTES & ELEVATIONS.....	1
SECTION VIEWS & GLAZING.....	2
EXTRUSIONS & B.O.M.....	3
ANCHOR SCHEDULE & NOTES.....	4
INSTALLATION DETAILS.....	5

LOCATION	MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
NON-HVHZ	48" x 36"	+/- 65 PSF	LARGE MISSILE IMPACT
HVHZ		+/- 67.5 PSF	

**8450 PVC
AWNING
IMPACT**

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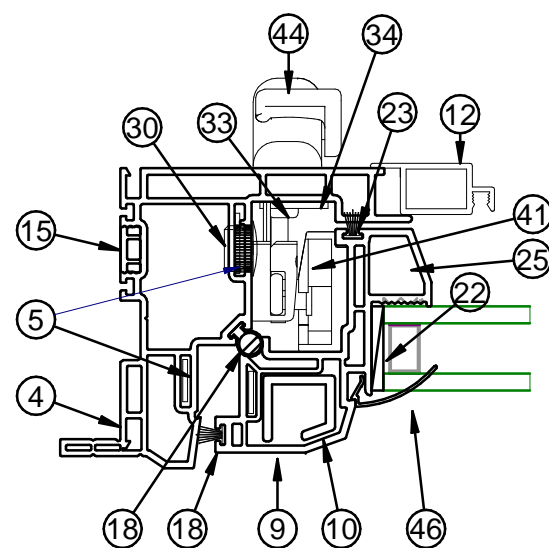
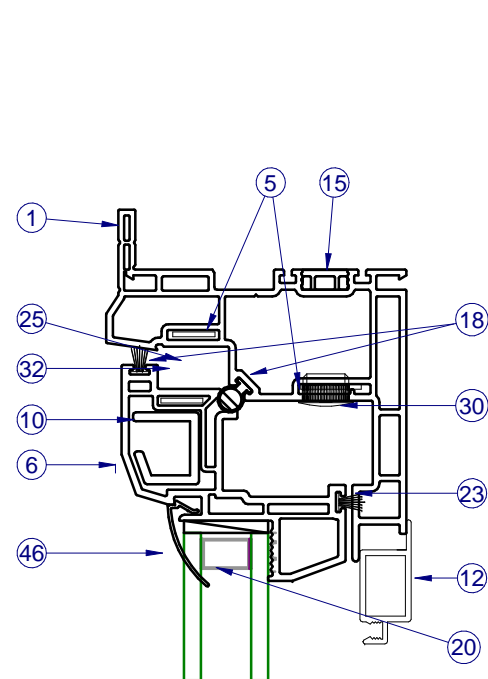
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SHEET DESCRIPTION:

**SECTION VIEWS AND
GLAZING DETAIL**

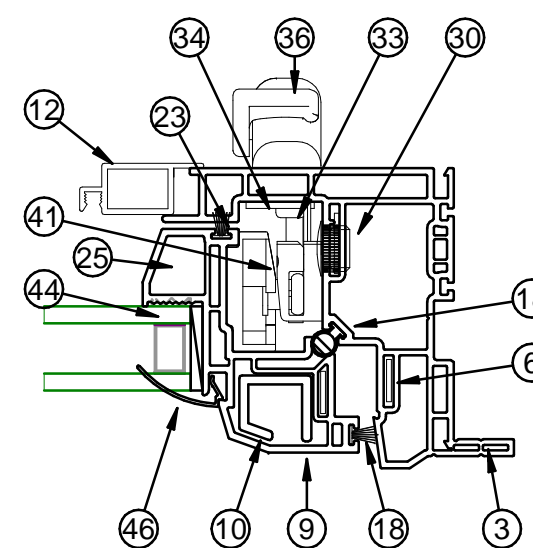
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1:2	2 OF 5



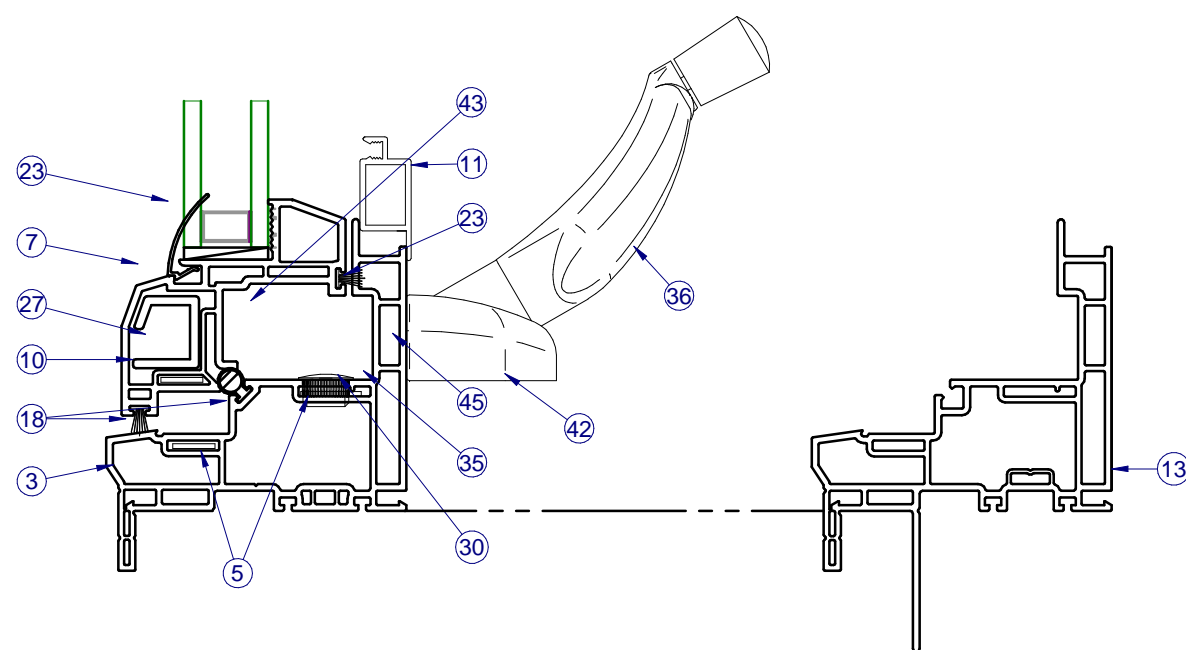
INTERIOR



SECTION VIEW B-B

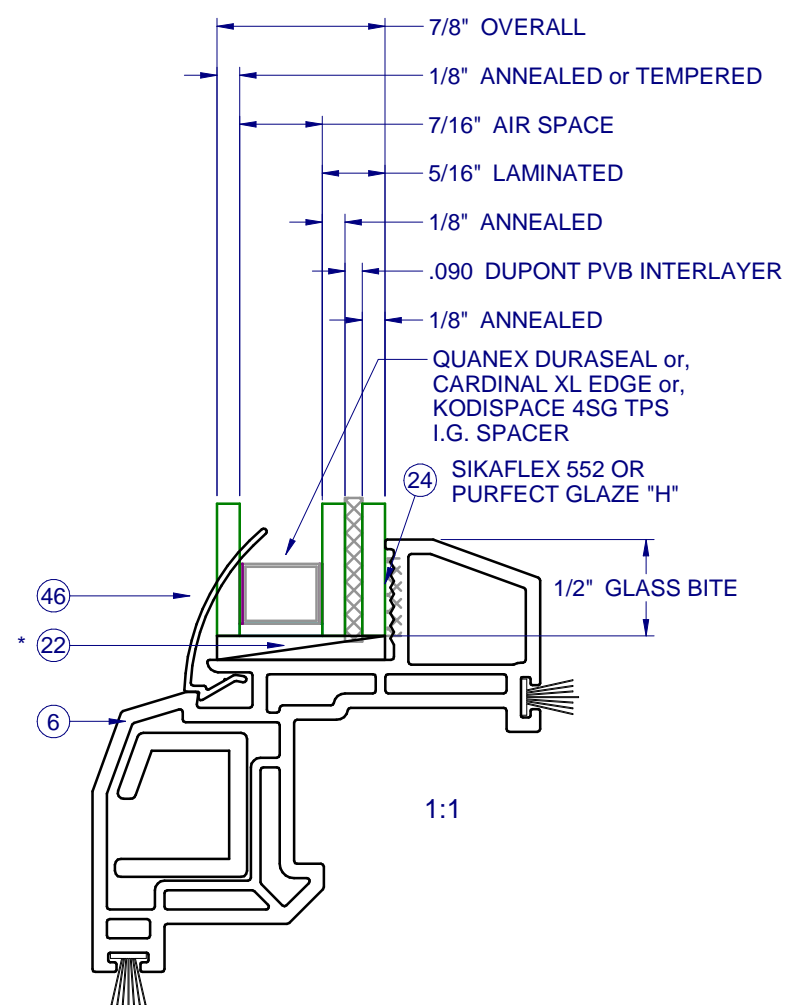


INTERIOR



SECTION VIEW A-A

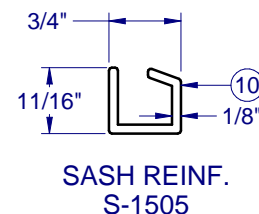
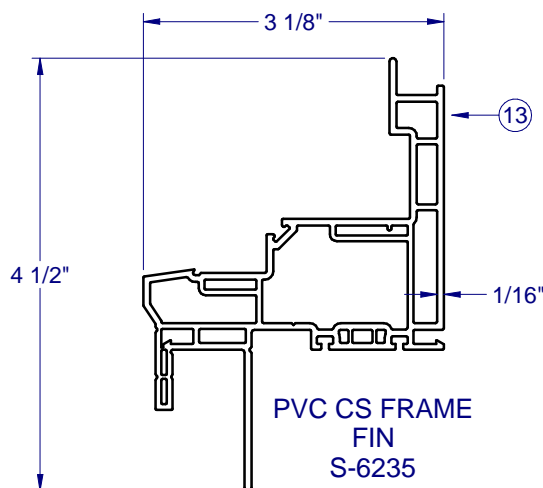
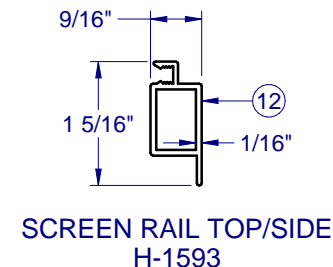
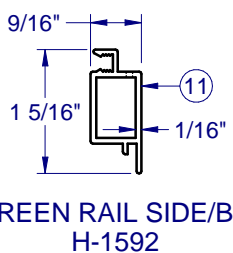
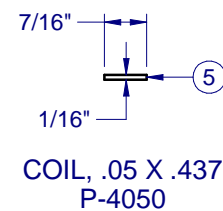
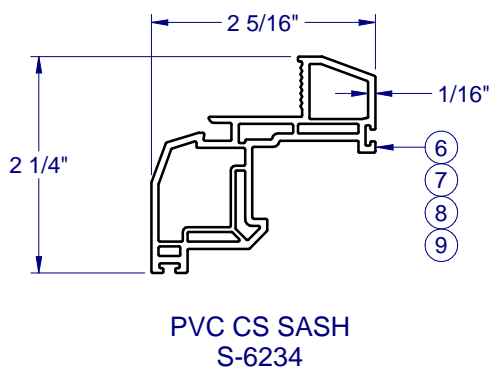
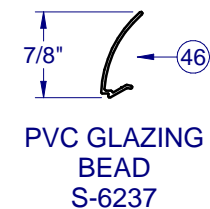
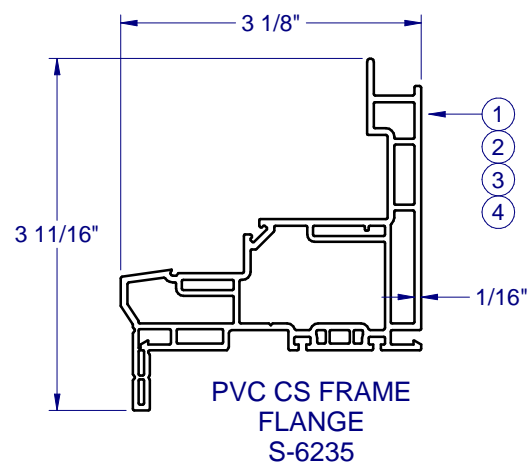
ALTERNATE FIN FRAME



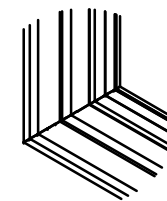
* SETTING BLOCKS PER FBC 2411.3.3.1

ITEMS NOT SHOWN FOR CLARITY:
22,25,33,38,42,46-48,51-56

ITEM	PART #	DESCRIPTION	MATERIAL
1	H-6235	FR., AWNING., MAIN, HEAD	Rigid PVC
2	H-6235	FR., AWNING, MAIN, SILL	Rigid PVC
3	H-6235	FR., AWNING, MAIN, JB., RIGHT	Rigid PVC
4	H-6235	FR., AWNING, MAIN, JB., LEFT	Rigid PVC
5	P-4050	COIL-ALUMINUM, 5052-H32 (.050 X .437) JB, LEFT	Aluminum
6	H-6234	SASH, AWNING, TOP RAIL	Rigid PVC
7	H-6234	SASH, AWNING, BOT. RAIL	Rigid PVC
8	H-6234	SASH, AWNING, SIDE RAIL, RIGHT	Rigid PVC
9	H-6234	SASH, AWNING, SIDE RAIL, LEFT	Rigid PVC
10	S-1505	REINF. AWNING, SASH SIDE RAIL LEFT	Aluminum
11	H-1592	SCREEN RAIL, SIDE	Aluminum
12	H-1593	SCREEN RAIL, TOP/BTM/SIDE	Aluminum
13	H-6235	FR., AWNING., MAIN, HEAD, W/ INTEGRAL FIN	Rigid PVC
14	P-3029	SCREEN LIFT-OUT	Steel
16	P-3195	SCREEN SPRING, NO HOLE TENSION	Steel
17	P-3197	SCREEN CORNER KEY	Nylon
18	P-5573	WSTP., BULB, HOLLOW, T-SLOT, .187 X .358	Rubber
19	P-3228	SCREEN SPLINE, .155 DIA, BLK	Foam
20		SPACER, SEE SHEET 3	
21	P-3342	SEAM SEALER, SM-5504	Silicone
22	P-5615	SET. BLK., 85 DUR., 1/8" X 1" X 2" LG.	Rubber
23	P-3429	WSTP., .270 X .187 BACK, ULTRA FIN, BLACK, SASH	Nylon
24	P-3438	PURFECT GLAZE "H", SIKA FLEX 552	Silicone
25	P-3539	#8 X 3/4" QUAD PH TEK, ZINC, SCREW	Steel
26	P-3581	SCREEN CLOTH, 18 X 16 FIBERGLASS	Fiberglass
27	P-3587	#8 X 1" PH FH TEK 2, ZINC, SCREW	Steel
28	P-3613	CWS LBL. (LOGO)	
29	P-3736	AW-8400 GOLD CERT. LABEL, NFRC TAB	
30	P-5588	CAP PLUG, 1/2" HOLE	Nylon
31	P-3881	TEMPORARY LBL. (NFRC/DP)	
32	P-3940	SNUBBER, SS, PVC	
33	P-4004	#8-32 X 1/2" PH PH, MS, SS (ROTO HDWE. LOCK)	Steel
34	P-4005	SUPPORT PLATE, LOCK, SS, ROTO HDWE. (Use w/ P-	Stainless
35	P-4012	SHIM, ROTO OPERATOR, ROTO HDWE. (4.8mm)	Stainless
36	P-4503	HANDLE, STD, ROTO OPER, ROTO HDWE. (WHITE)	Stainless
37	P-4015	HINGE ARM, WASHABILITY, 13", ROTO HARDWARE	Stainless
38	P-4018	HINGE TRACK, 13" ROTO HDWE., "A" & "B"	Stainless
39	P-4024	GASKET, ROTO OPER., ROTO HDWE., 1/16"	Closed Cell
40	P-4042	GASKET, LOCK	Closed Cell
41	P-4043	STRIKE, MULTI-POINT	Plastic
42	P-4044	ROTO OPER., SCISSOR ARM, AWNING	Stainless
43	P-4045	SWIVEL BRACKET, ROTO OPER., AWNING	Stainless
44	P-4047	LOCK, SINGLE-POINT, ROTO HDWE., WHITE	Stainless
45	P-4521	#8-32 x 3/4" Phil Trilobe Truss, SS	Steel
46	S-6237	GLZ. BD.,	Rigid PVC
47	GLASS	SEE SHEET 2	



FRAME AND SASH CORNER CONSTRUCTION



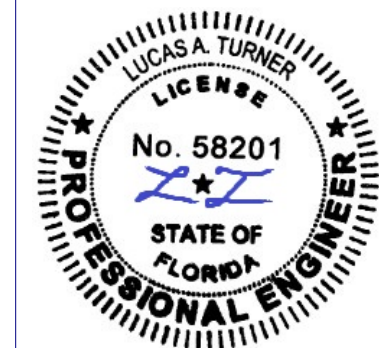
CORNER WELD (ALL SIDES) 1:8



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8450 PVC AWNING IMPACT

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SHEET DESCRIPTION:

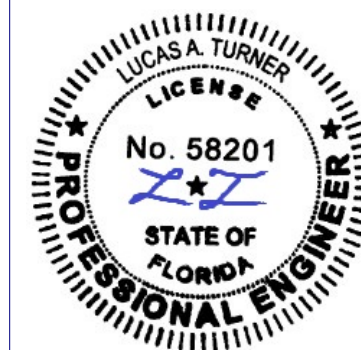
BOM AND EXTRUSIONS

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

**8450 PVC
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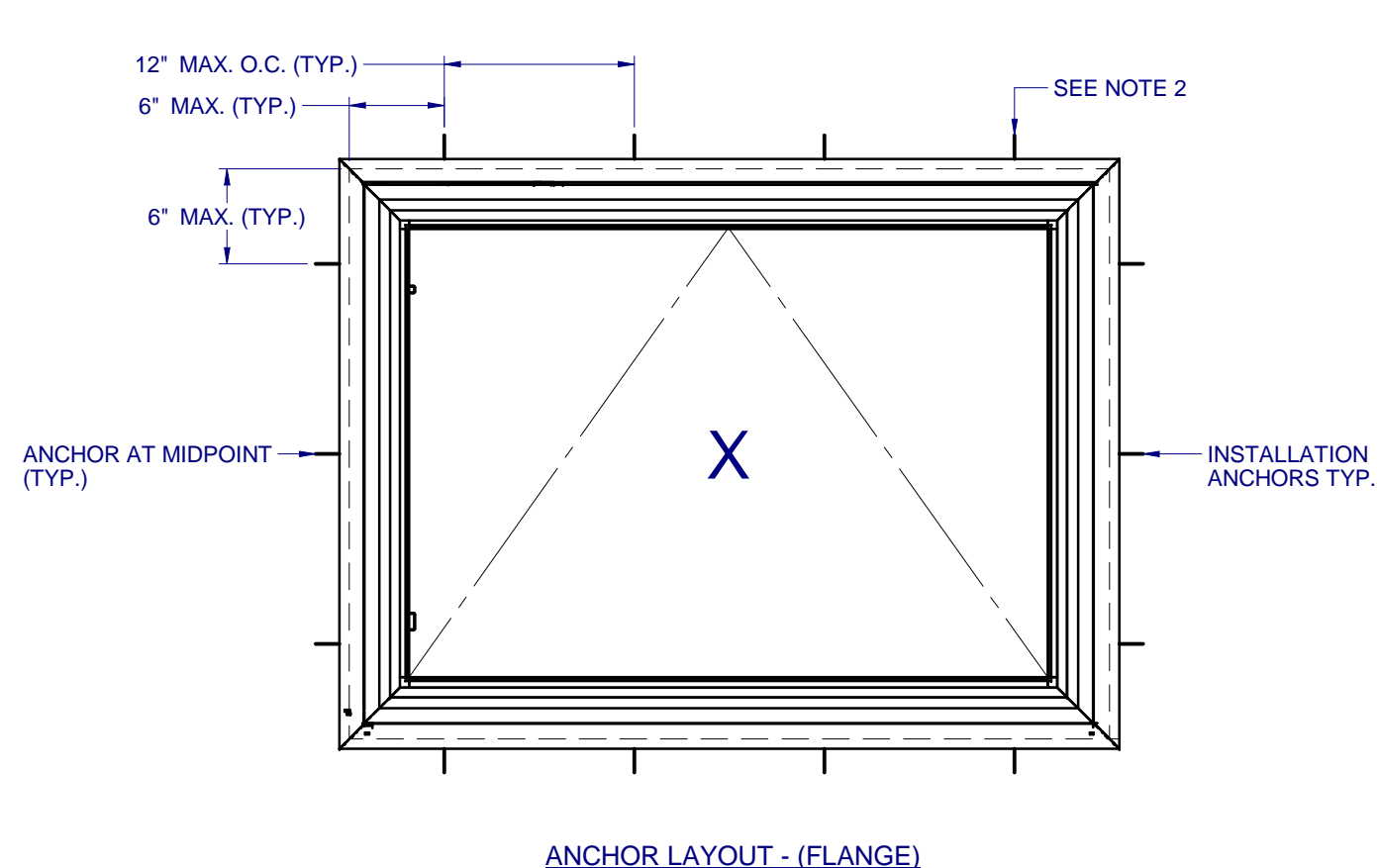


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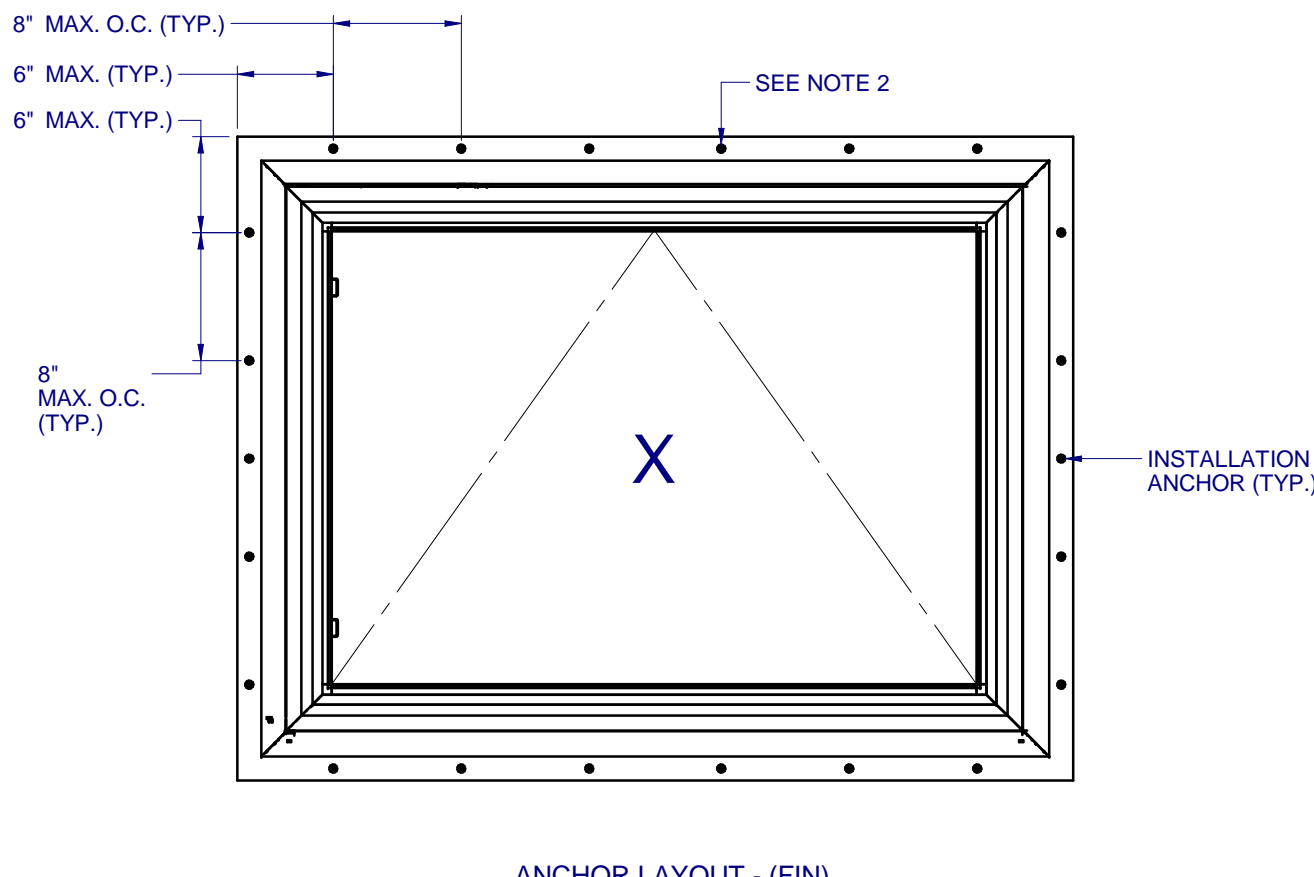
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SHEET DESCRIPTION:
**ANCHOR SCHEDULE AND
NOTES**

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ANCHOR LAYOUT - (FLANGE)



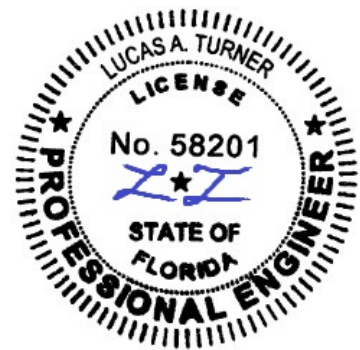
ANCHOR LAYOUT - (FIN)

NOTES:

1. INSTALL ONE ANCHOR AT EACH LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ'D 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 5.
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 5.
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 CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
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 TABLE 1, SHEET 5. 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)

**8450 PVC
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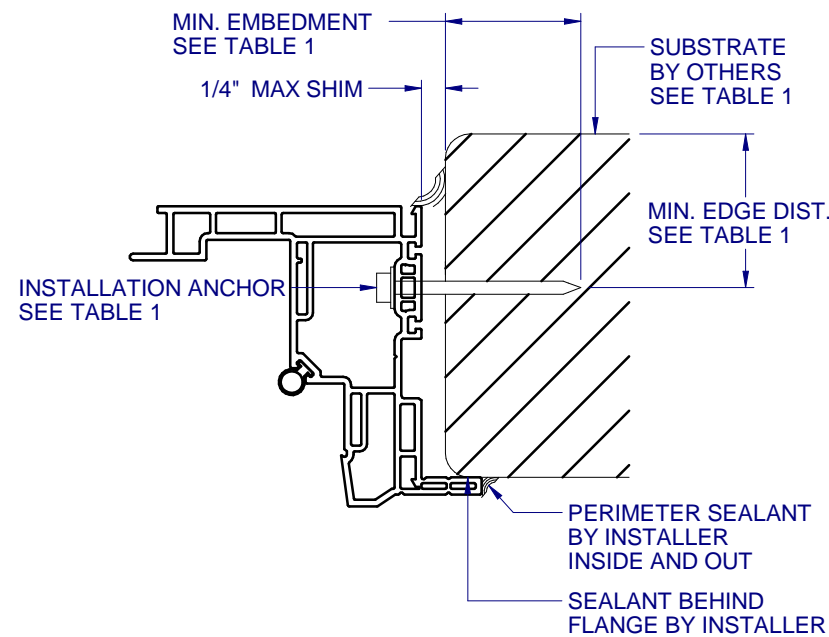
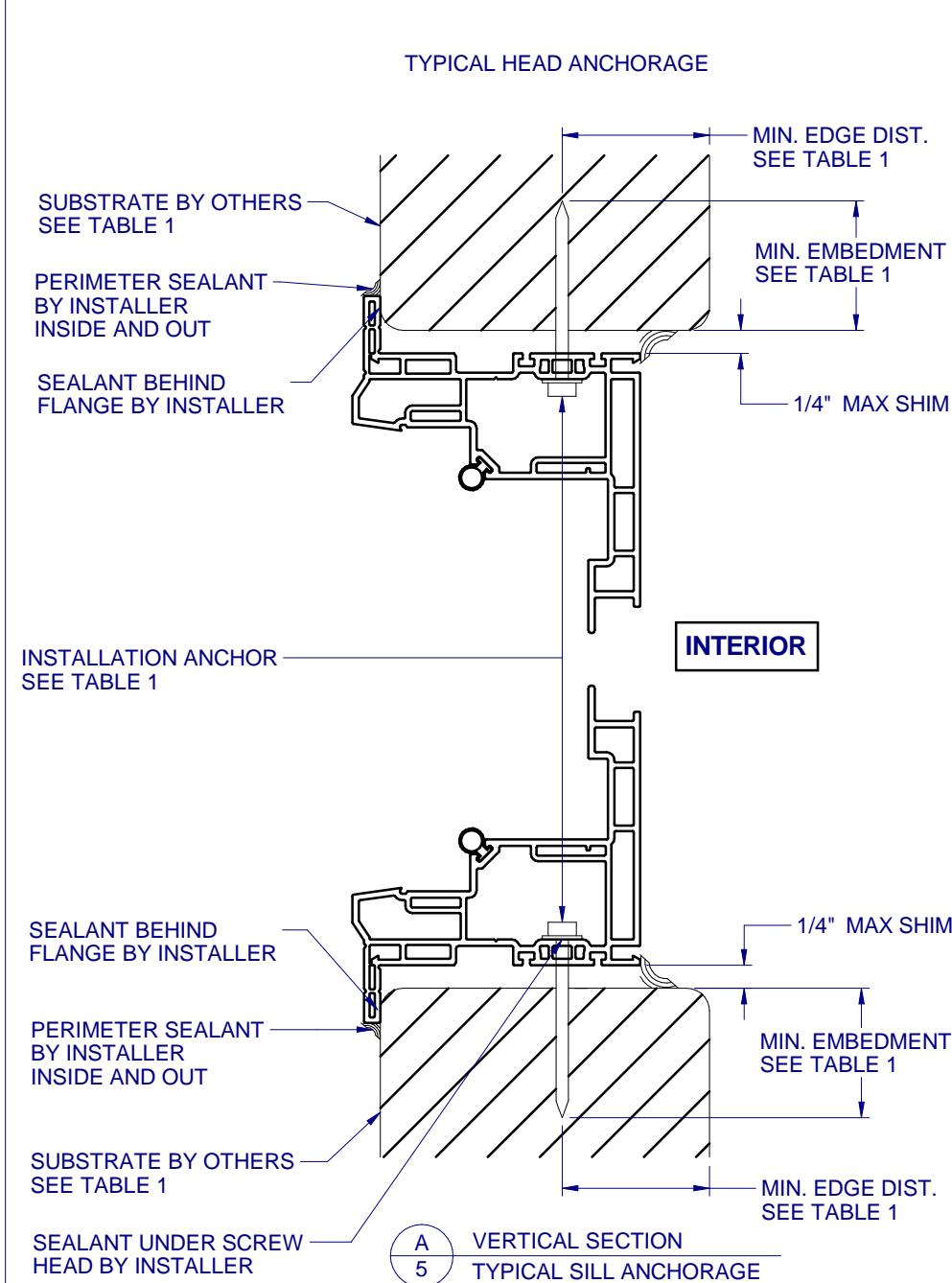
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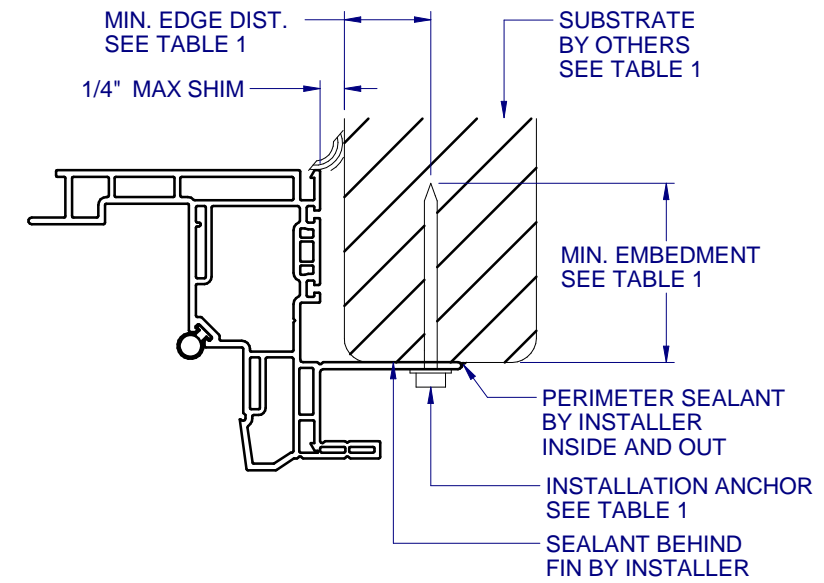
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INSTALLATION DETAILS

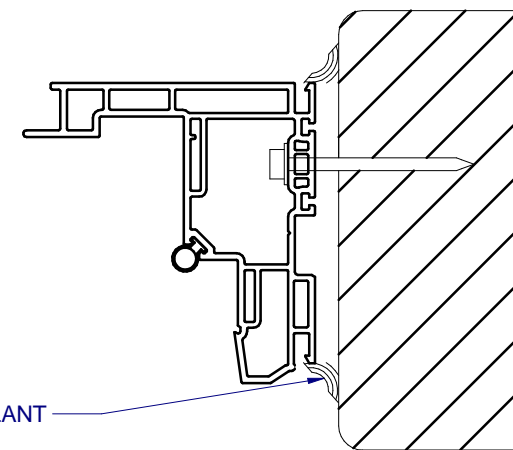
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B
5 HORIZONTAL SECTION
TYPICAL JAMB ANCHORAGE



C
5 HORIZONTAL SECTION
TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN INSTALLATION



D
5 HORIZONTAL SECTION
BOX FRAME INSTALLATION
HEAD AND SILL SIMILAR FOR BOX INSTALLATION

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

TABLE 1: APPROVED INSTALLATION FASTENERS

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
FLANGE	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-1/4"	2-1/2"
FLANGE	2X MIN. SPRUCE-PINE-FIR (G=0.42)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
FLANGE	2X MIN. SPRUCE-PINE-FIR (G=0.42)	#10 WOOD SCREW	1-3/8"	7/8"
FLANGE	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
FLANGE	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"	7/16"
FIN	2X MIN. SPRUCE-PINE-FIR (G=0.42)	#8 WOOD SCREW	1-1/2"	7/16"