

PICTURE WINDOW - NON-IMPACT

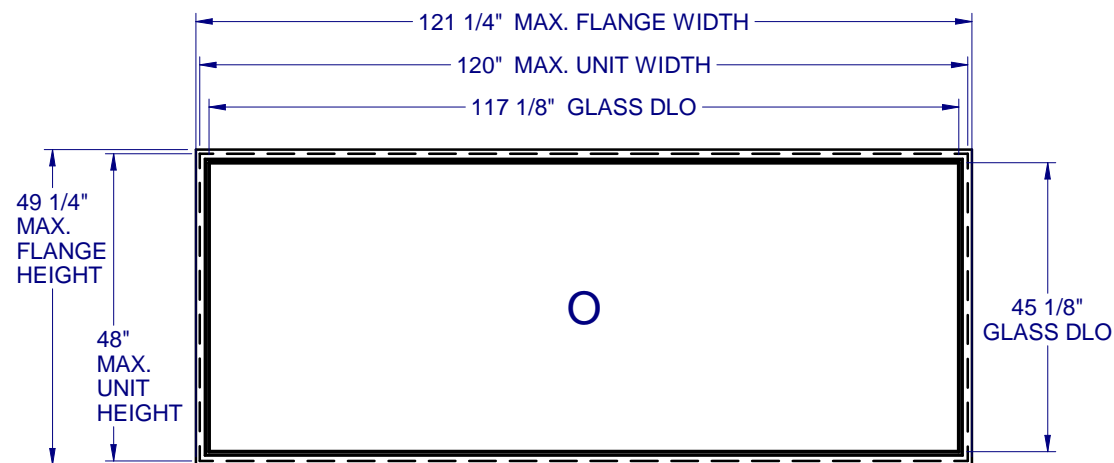
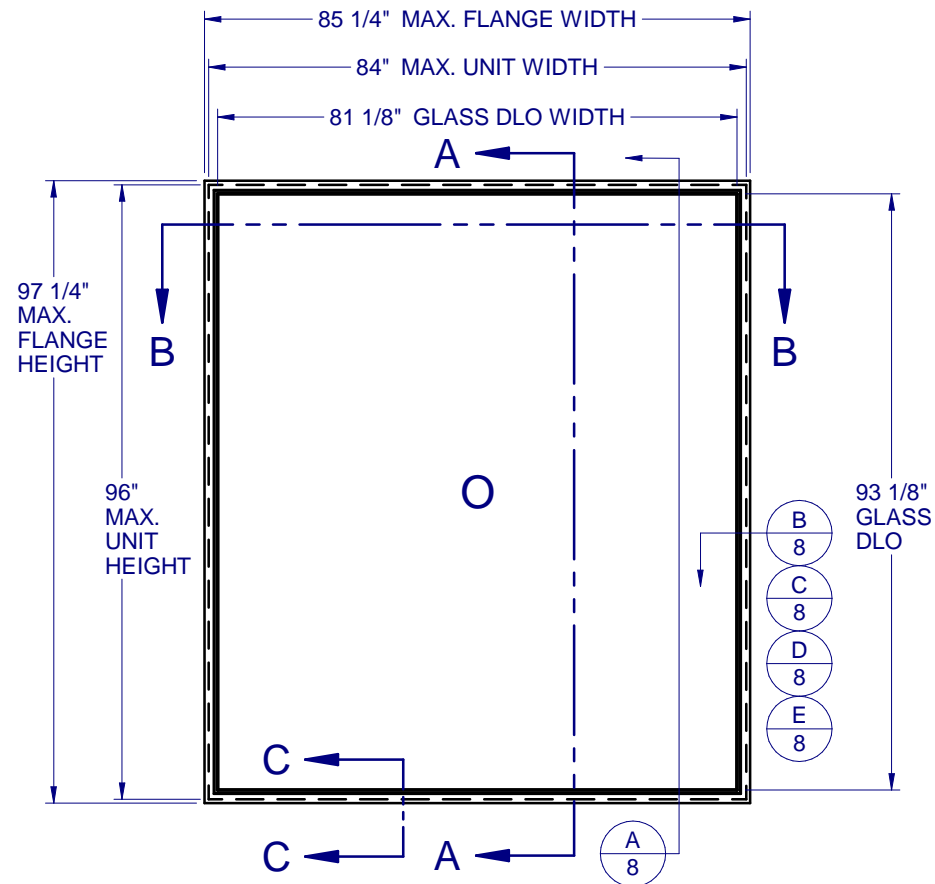


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MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
84" x 96"	SEE COMPARATIVE ANALYSIS CHART, SHEET 4	NONE
120" x 48"		NONE

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 3)
3. CONFIGURATIONS: "O". ARCHITECTURAL SHAPES INCLUDE, BUT ARE NOT LIMITED TO, THOSE SHOWN ON SHEET 2.
4. DESIGN PRESSURE RATING (SEE SHEET 4):
 - 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 8 FOR ANCHOR DETAILS. WINDLOAD 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 FULLY WELDED.
8. SERIES / MODEL DESIGNATION PW-8300.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. PICTURE WINDOWS CAN BE INSTALLED IN ANY ORIENTATION



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8/3/2023

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:
GENERAL NOTES AND ELEVATIONS

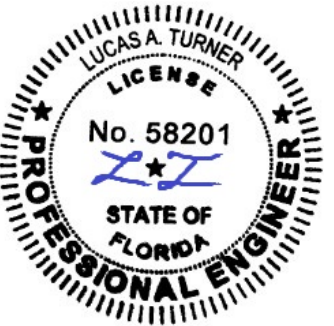
DRAWN BY: MCS	DATE: 8/1/2023
DWG #: CWS-339	REV.: G
SCALE: 1:30	SHEET 1 OF 8

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SHEET DESCRIPTION:

**ARCHITECTURAL
SHAPES**

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REV.:

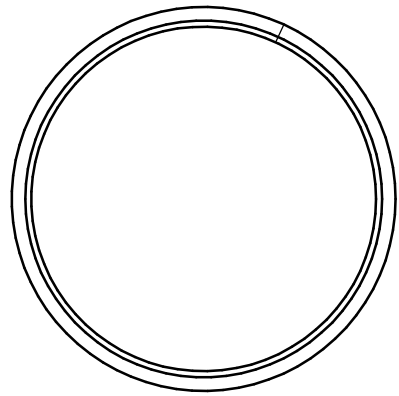
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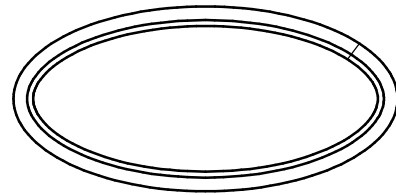
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SHEET

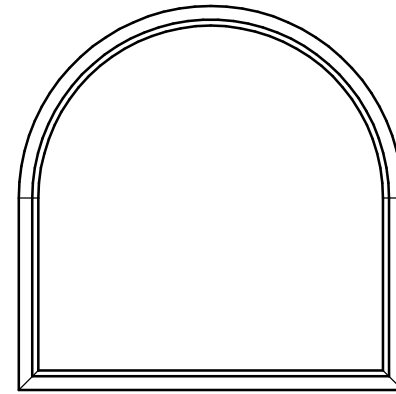
2 OF 8



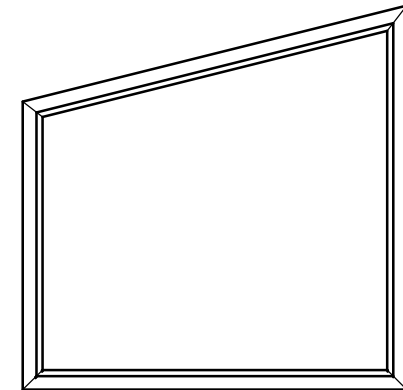
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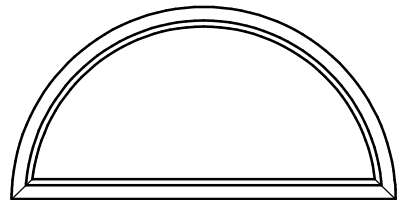
FULL ELLIPSE (OVAL)



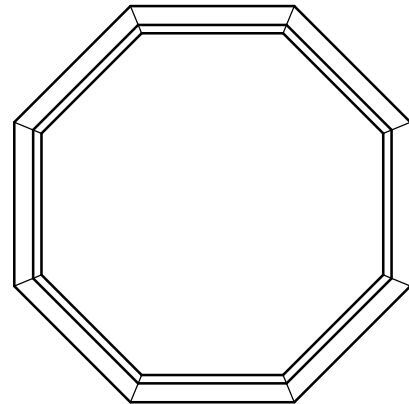
TOMBSTONE



TRAPEZOID



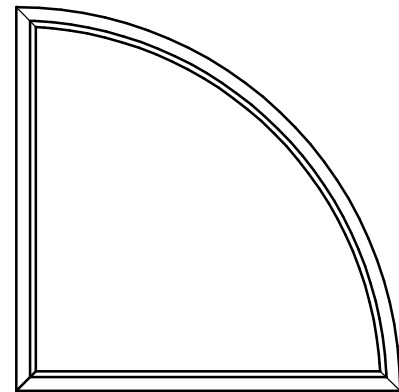
1/2 CIRCLE



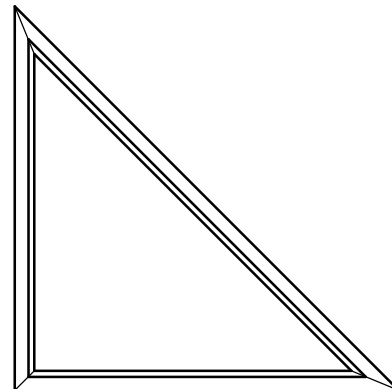
OCTAGON

NOTES:

1. SEE SHEET 7 FOR DETAILED ANCHOR INSTALLATION REQUIREMENTS.
2. THRU FRAME - MASONRY, WOOD OR METAL OPENING.
THRU FIN - WOOD OPENING.
3. OVERALL SIZE MUST NOT EXCEED THE MAX. WIDTH AND HEIGHT OF
RECTANGULAR WINDOWS ON SHEET 1.
4. ANCHOR SPACING FOR ARCHITECTURAL FLANGE AND FIN WINDOWS
MUST FOLLOW THE LAYOUT SHOWN ON SHEET 7, WITH ANCHOR
SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.



1/4 CIRCLE



TRIANGLE



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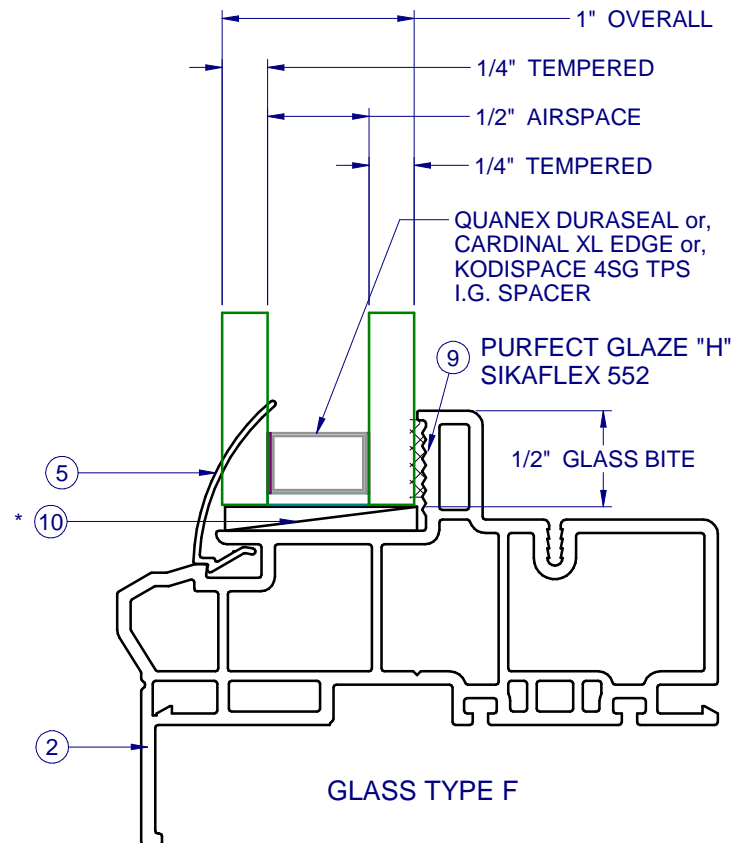
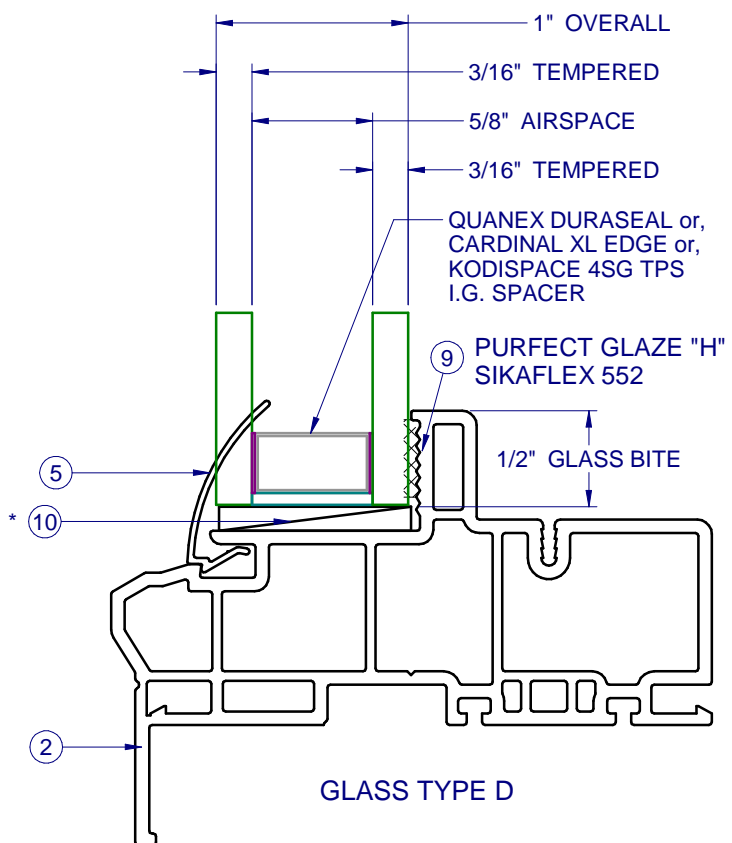
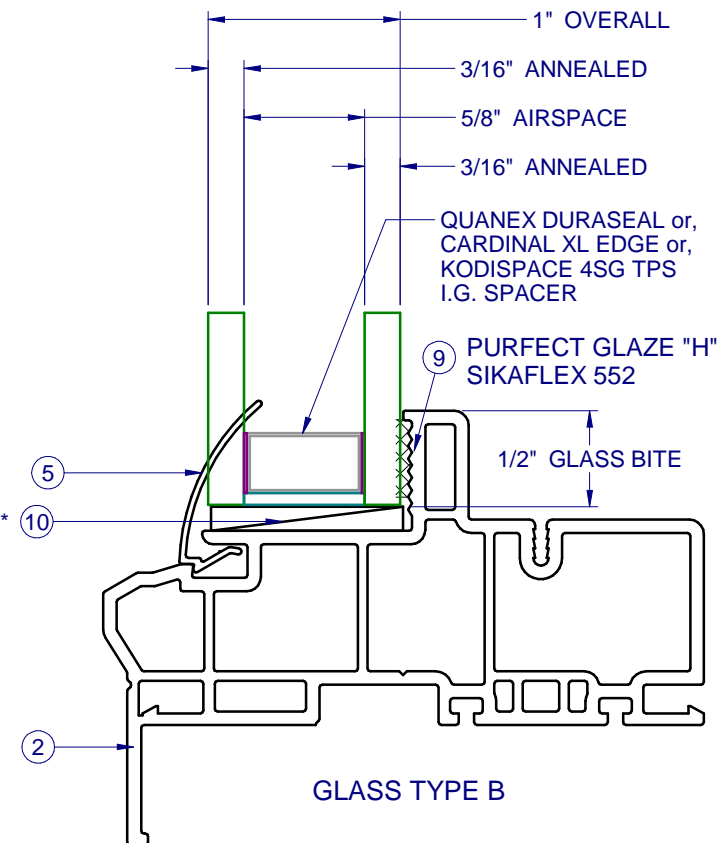
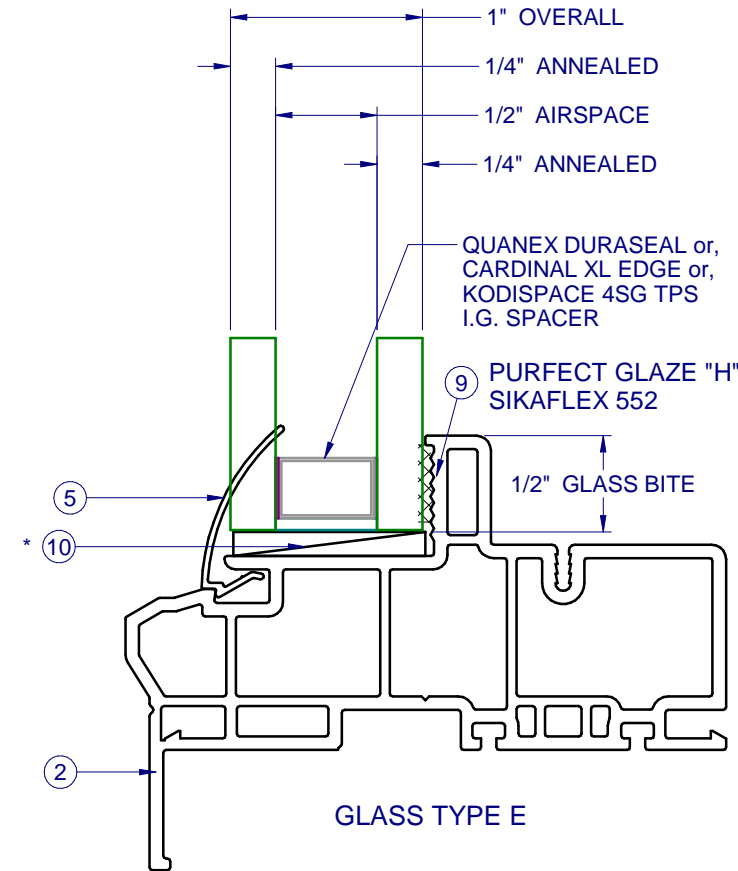
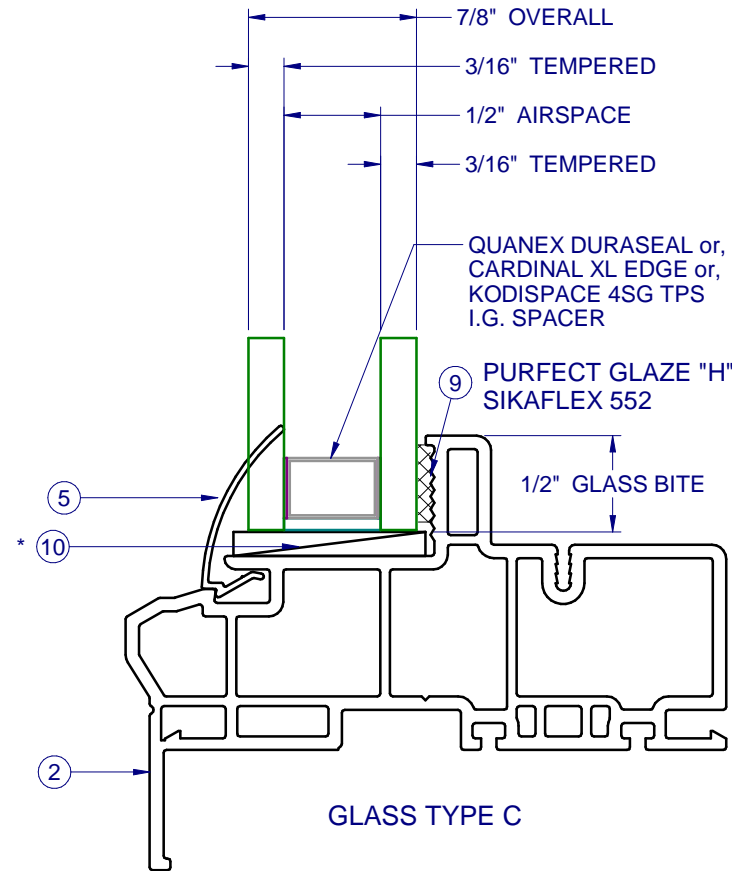
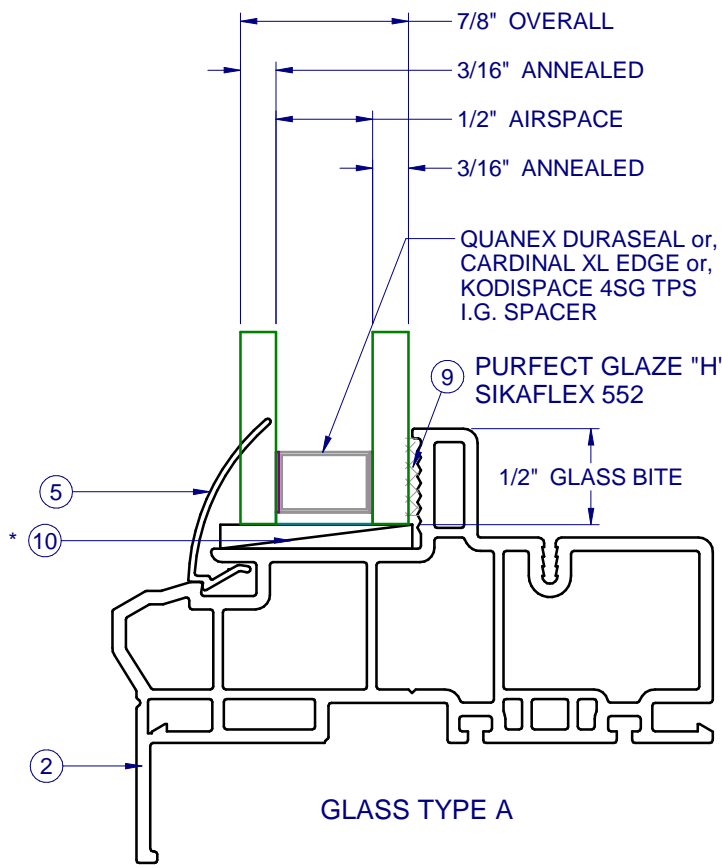


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SHEET DESCRIPTION:

GLAZING DETAILS

DRAWN BY:	DATE:
MCS	8/1/2023
DWG #:	REV.:
CWS-339	G
SCALE:	SHEET
1:1	3 OF 8



"O" CONFIG. DESIGN PRESSURES, PSF (POSITIVE AND NEGATIVE PRESSURES ARE EQUAL)

WINDOW SHORT DIMENSION, UNIT SIZE (IN.)	GLASS TYPE	WINDOW LONG DIMENSION, UNIT SIZE (IN.)																
		30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
30	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.3	57.8	
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.5	
	C,D,F	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	60.0	60.0	58.5	
36	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.2	52.0	48.4	46.1	44.4	42.8	41.2
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.9	53.3	50.2
	C,D,F	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	60.0	56.9	53.3	50.2
42	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.0	49.8	45.5	41.9			
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.4	52.2	50.4	47.2	44.3
	C,D,F	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	93.6	52.2	50.4	47.2	44.3
48	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.0	50.0	45.8	40.0			
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.3	52.5	40.0	40.0	40.0	40.0
	C,D,F	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	93.1	85.3	40.0	40.0	40.0	40.0
54	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.0	52.9	49.0	45.5				
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	53.3	48.7				
	C,D,F	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	95.8	86.7	79.1				
60	A,B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.4	52.8	49.3	46.1	43.5				
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.0	50.4	45.8				
	C,D,F	97.5	97.5	97.5	97.5	97.5	91.6	91.6	91.6	91.6	91.6	91.0	81.9	74.5				
66	A,B	60.0	60.0	60.0	60.0	60.0	60.0	55.7	52.2	48.6	45.6	42.8	40.4					
	E	60.0	60.0	60.0	60.0	60.0	60.0	55.7	55.7	55.7	53.9	48.2	43.6					
	C,D,F	97.5	97.5	97.5	97.5	97.5	91.6	83.3	83.3	83.3	83.3	83.3	78.4	70.9				
72	A,B	60.0	60.0	60.0	60.0	60.0	56.4	52.2	48.3	45.0	42.3							
	E	60.0	60.0	60.0	60.0	60.0	60.0	55.7	51.1	51.1	51.1	46.7	42.0					
	C,D,F	97.5	97.5	97.5	97.5	97.5	91.6	83.3	76.3	76.3	76.3	75.8	68.3					
78	A,B	60.0	60.0	60.0	60.0	57.0	52.8	48.6	45.0	41.9								
	E	60.0	60.0	60.0	60.0	60.0	60.0	55.7	51.1	46.4	46.4	45.6	40.8					
	C,D,F	97.5	97.5	97.5	97.5	97.5	91.6	83.3	76.3	70.4	70.4	70.4	66.3					
84	A,B	60.0	56.2	55.0	55.0	52.9	49.3	45.6	42.3									
	E	60.0	60.0	60.0	60.0	58.9	56.0	53.9	51.1	46.4	40.0	40.0	40.0					
	C,D,F	97.5	97.5	97.5	97.5	95.8	91.0	83.3	76.3	70.4	65.0	65.0	65.0					

NOTES:
 1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.
 2. SHADED SIZES ARE NOT ALLOWED FOR THAT GLASS TYPE.



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

SHEET DESCRIPTION:
COMPARATIVE ANALYSIS

DRAWN BY: MCS	DATE: 8/1/2023
DWG #: CWS-339	REV.: G
SCALE: 1:1	SHEET 4 OF 8



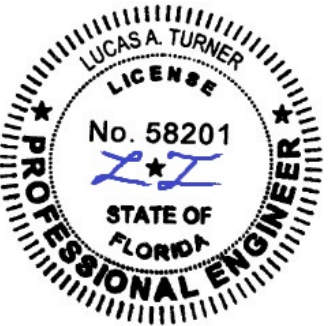
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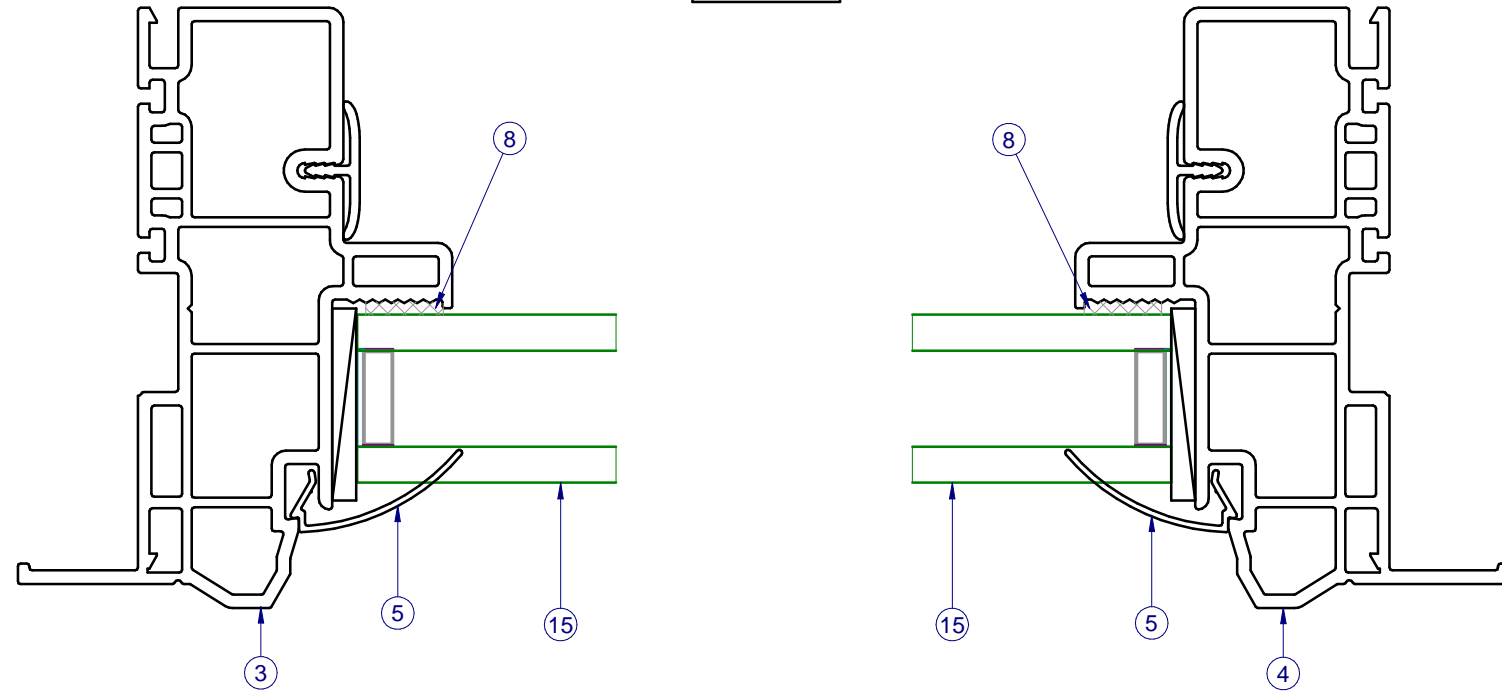
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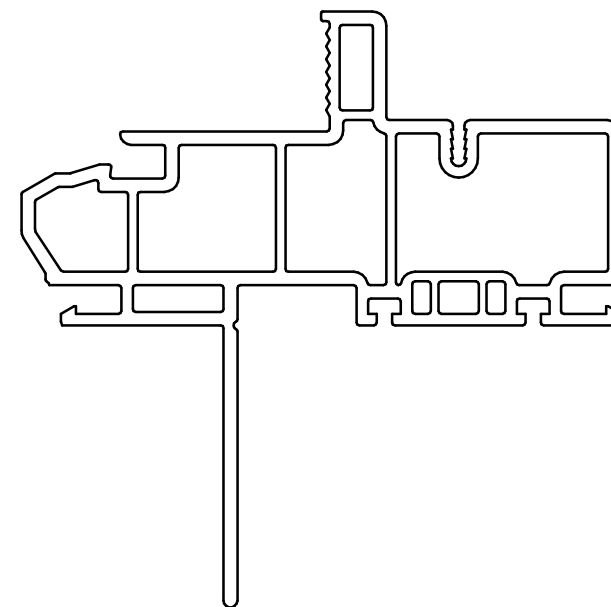
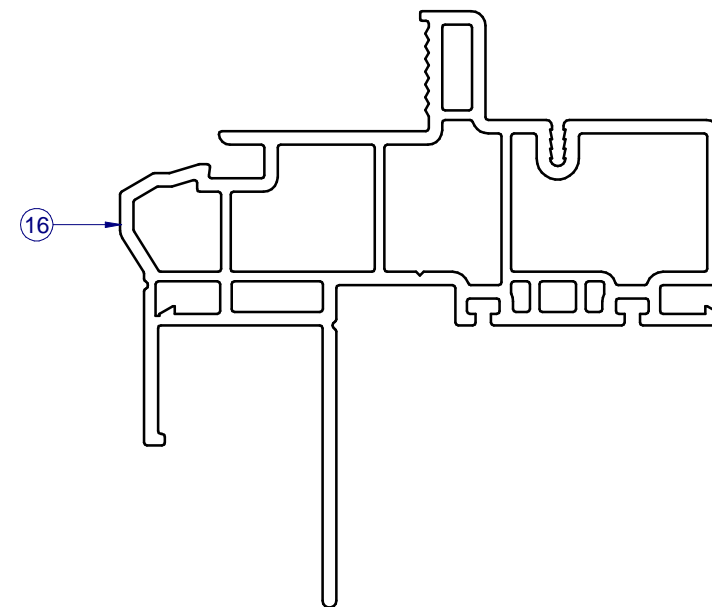
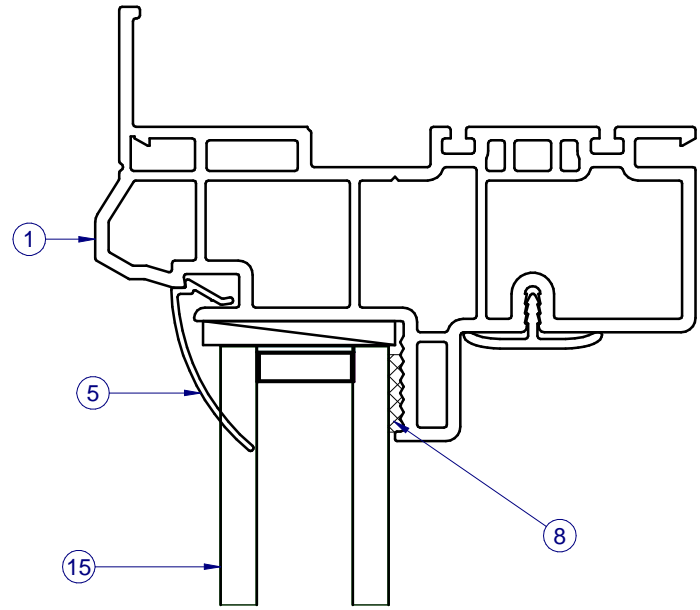
SECTION VIEWS

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DWG #:	REV.:
CWS-339	G
SCALE:	SHEET
1:1	5 OF 8

INTERIOR



INTERIOR

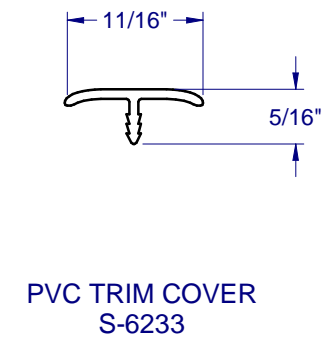
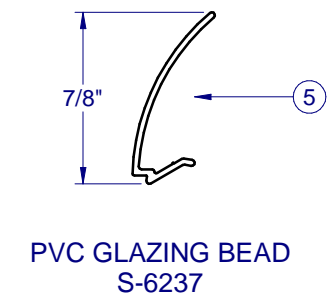
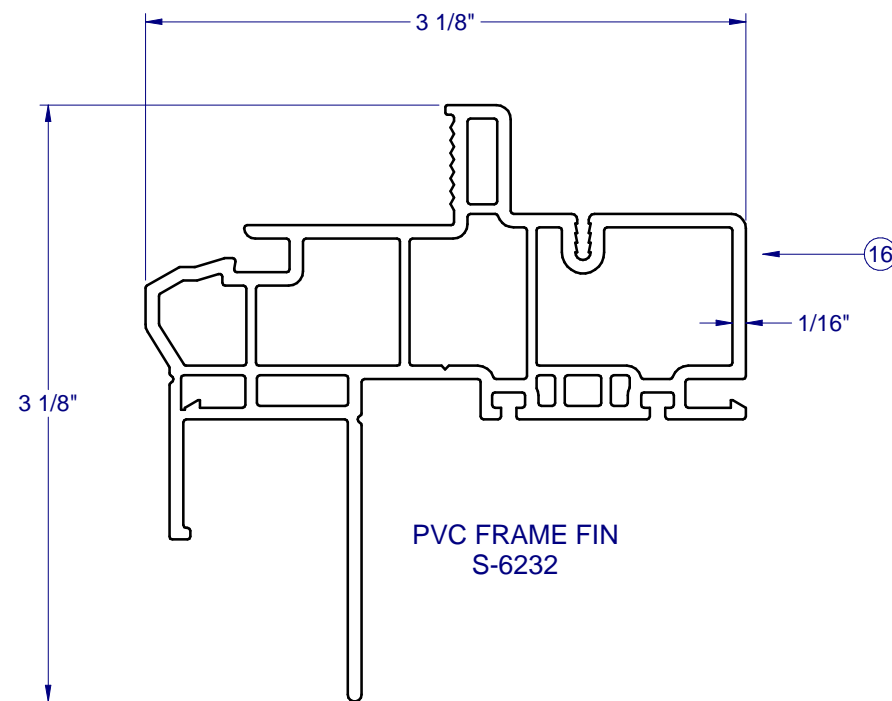
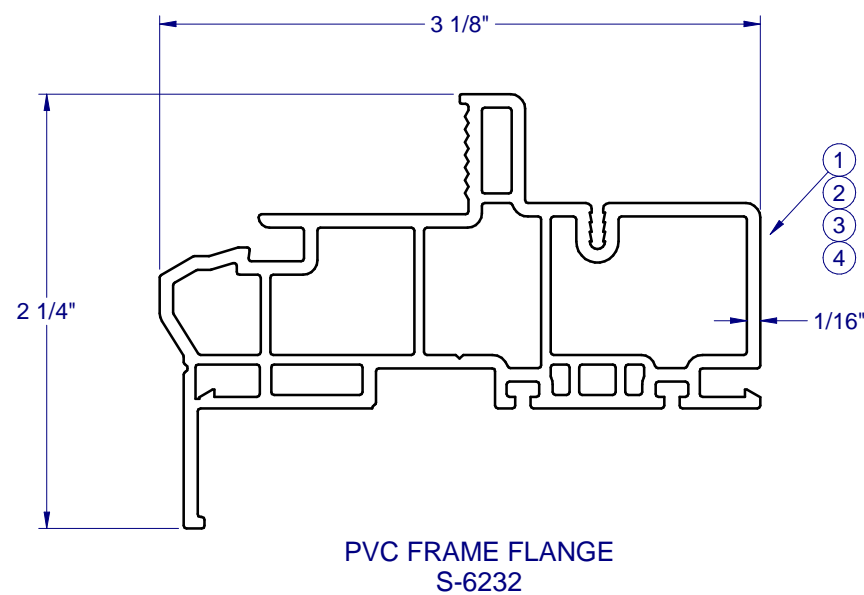


ITEMS NOT SHOWN FOR CLARITY:
9, 11-14

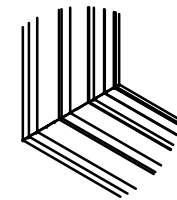
PARTS LIST

ITEM	PART #	DESCRIPTION	MATERIAL
1	H-6232	FRAME-PVC, FIN/FLANGE	PVC
2	H-6232	FRAME-PVC, FIN/FLANGE	PVC
3	H-6232	FRAME-PVC, FIN/FLANGE	PVC
4	H-6232	FRAME-PVC, FIN/FLANGE	PVC
5	S-6237	GLAZING BEAD, FIXED	PVC
8	S-6233	Trim Cover	PVC
9		SIKAFLEX 552 OR PURFECT GLAZE "H"	
10	P-5531	Set. Bk., 85 Dur., 1/8" x 1" x 2" Lg.	Rubber
11		PW-8300 Gold Cert. Label, NFRC Tab	
13		NFRC LABEL, BLANK 4 X 8 LABEL	
14	P-5304	LABEL, 9X9 CWS Logo Label	
15	GLASS	SEE SHEET 3	
16	H-6232	Fr. Main, PVC, Fin	PVC

LINE ITEMS NOT USED:
6-7, 12



FRAME CORNER CONSTRUCTION



CORNER WELD
(ALL SIDES)
1:8



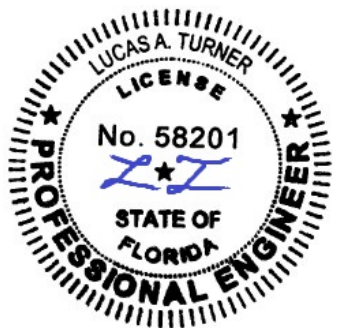
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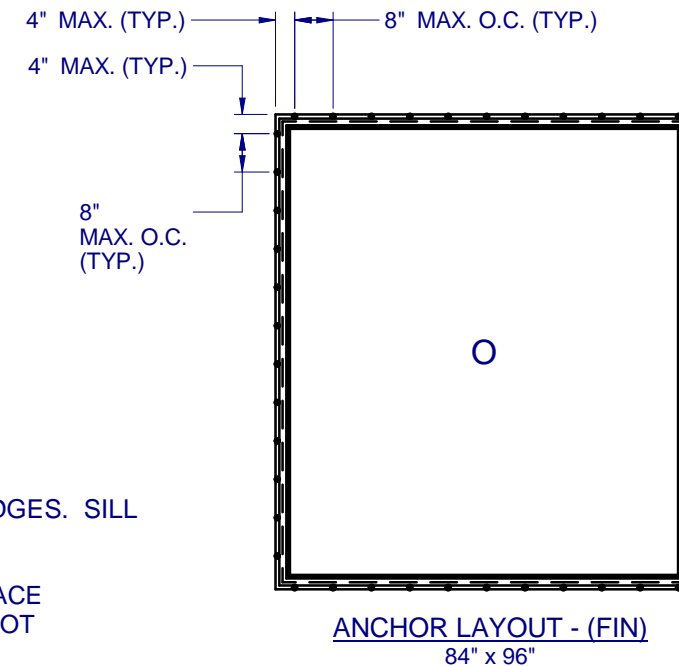
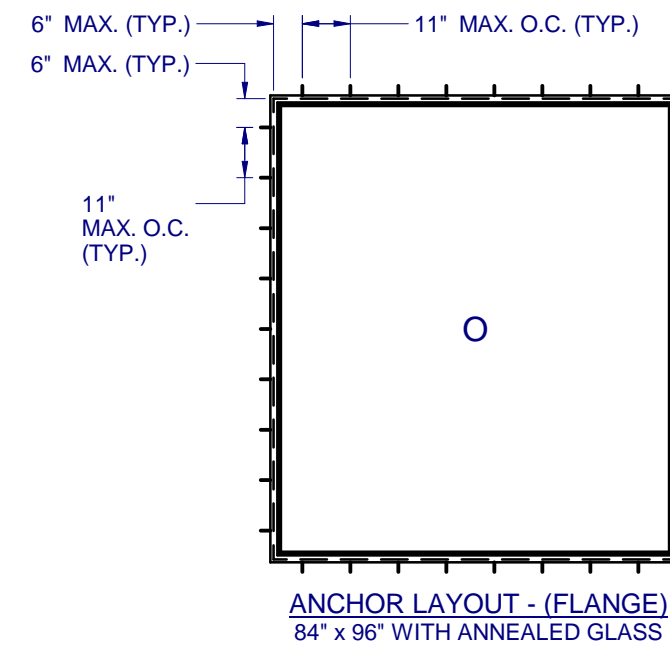
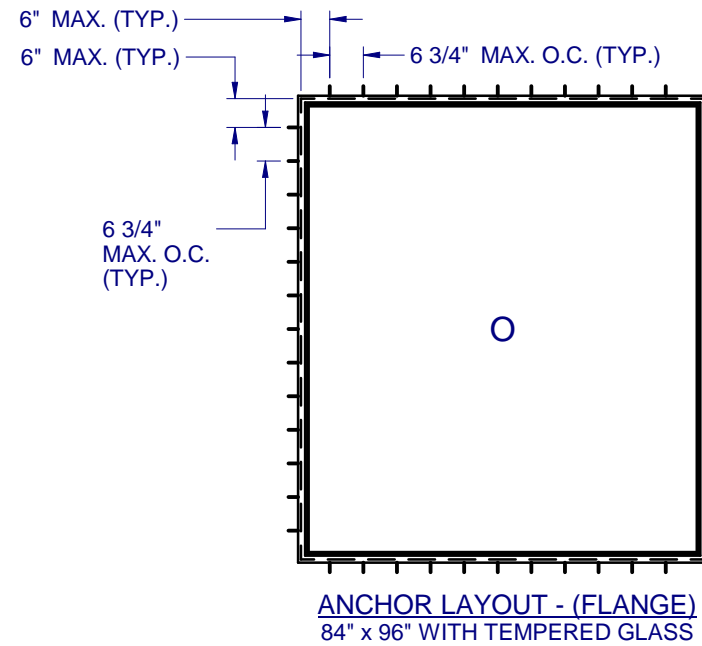
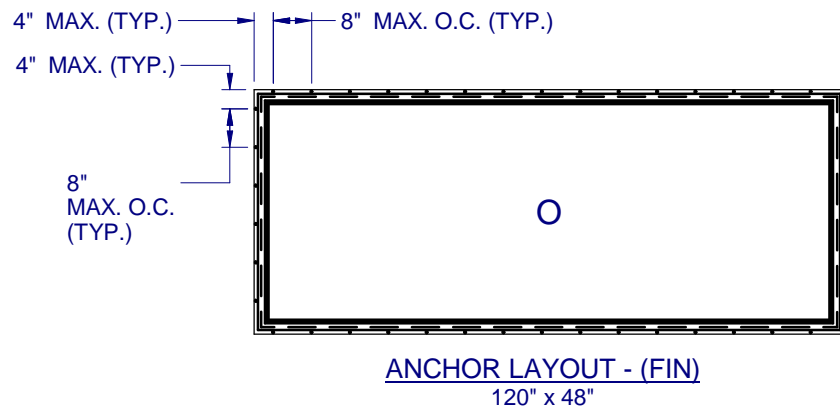
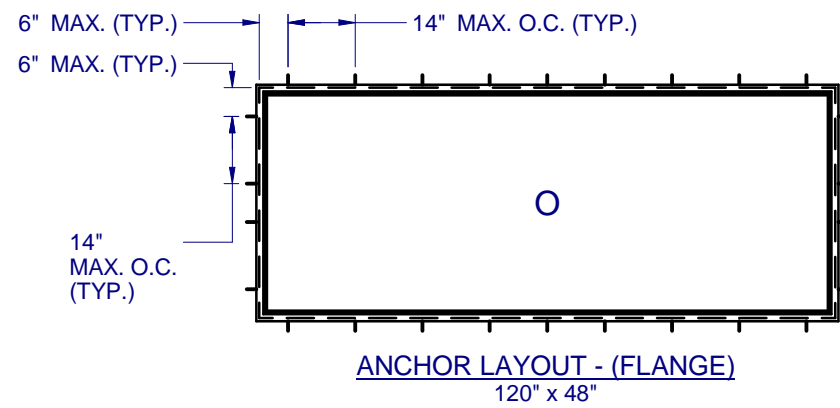
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SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DRAWN BY: MCS	DATE: 8/1/2023
DWG #: CWS-339	REV.: G
SCALE: 1:1	SHEET 6 OF 8



NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. ANCHOR SPACING APPLIES TO ALL SHAPES (SEE SHEET 2) ALONG ALL FRAME EDGES. 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 8.
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 8.
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 - 1X BUCKS ARE OPTIONAL.
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 8. 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)

**8300 PVC
PICTURE WINDOW
NON-IMPACT**

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4093



8/3/2023

LUCAS A. TURNER, P.E.
FL PE # 58201
Turner Engineering & Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
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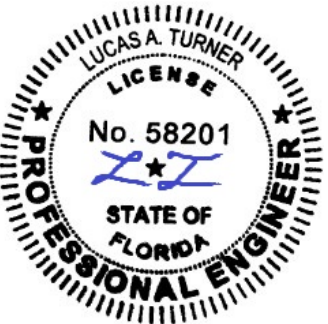
SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES

DRAWN BY: MCS	DATE: 8/1/2023
DWG #: CWS-339	REV.: G
SCALE: 1:40	SHEET 7 OF 8

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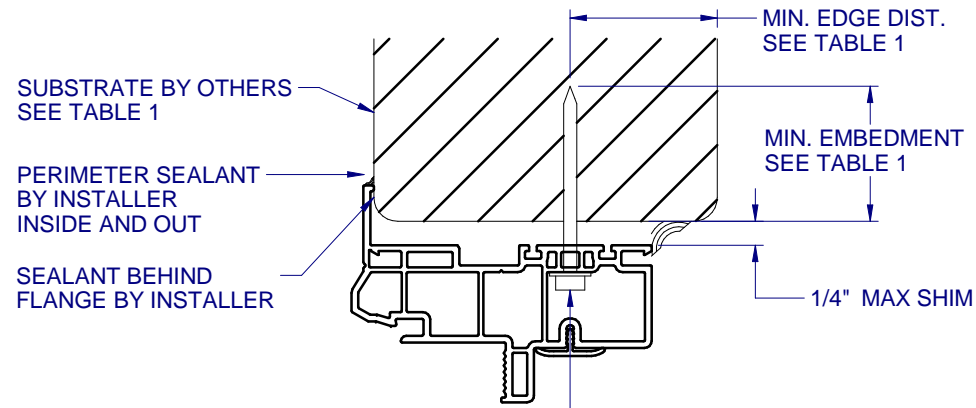
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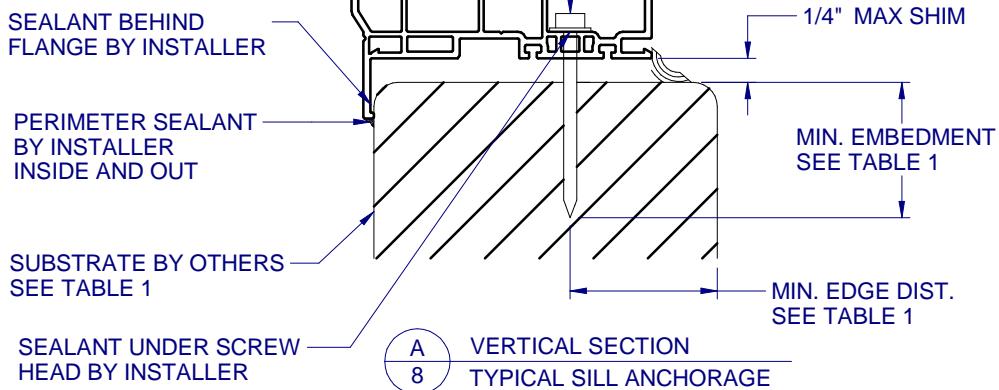
INSTALLATION DETAILS

DRAWN BY:	DATE:
MCS	8/1/2023
DWG #:	REV.:
CWS-339	G
SCALE:	SHEET
1:2	8 OF 8

TYPICAL HEAD ANCHORAGE



INSTALLATION ANCHOR
SEE TABLE 1



A
8 VERTICAL SECTION
TYPICAL SILL ANCHORAGE

MIN. EMBEDMENT
SEE TABLE 1

1/4" MAX SHIM

SUBSTRATE
BY OTHERS
SEE TABLE 1

INSTALLATION ANCHOR
SEE TABLE 1

MIN. EDGE DIST.
SEE TABLE 1

B
8 HORIZONTAL SECTION
TYPICAL JAMB ANCHORAGE

MIN. EMBEDMENT
SEE TABLE 1

1/4" MAX SHIM

SUBSTRATE
BY OTHERS
SEE TABLE 1

INSTALLATION ANCHOR
SEE TABLE 1

MIN. EDGE DIST.
SEE TABLE 1

PERIMETER SEALANT
BY INSTALLER
INSIDE AND OUT

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

MIN. EDGE DIST.
SEE TABLE 1

1/4" MAX SHIM

SUBSTRATE
BY OTHERS
SEE TABLE 1

MIN. EMBEDMENT
SEE TABLE 1

PERIMETER SEALANT
BY INSTALLER
INSIDE AND OUT
INSTALLATION ANCHOR
SEE TABLE 1
SEALANT BEHIND
FIN BY INSTALLER

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

MIN. EDGE DIST.
SEE TABLE 1

1/4" MAX SHIM

SUBSTRATE
BY OTHERS
SEE TABLE 1

MIN. EMBEDMENT
SEE TABLE 1

PERIMETER SEALANT
BY INSTALLER
INSIDE AND OUT
INSTALLATION ANCHOR
SEE TABLE 1
SEALANT BEHIND
FIN BY INSTALLER

E
8 HORIZONTAL SECTION
TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN 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	1-1/2"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
FLANGE	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#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. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-1/2"	1/2"