

PICTURE WINDOW - NON-IMPACT

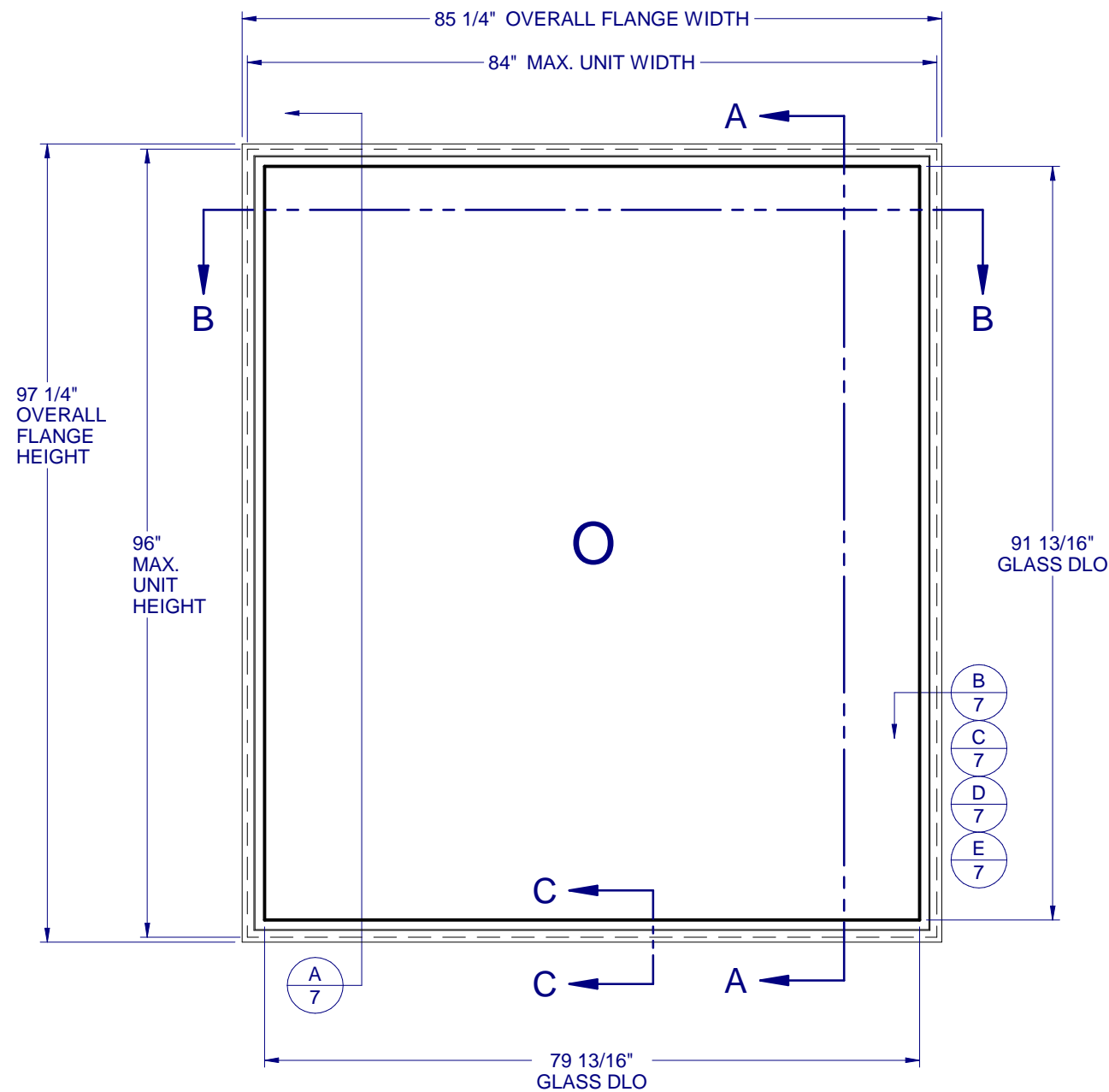


TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS.....	1
ARCHITECTURAL SHAPES.....	2
GLAZING DETAILS.....	3
SECTION VIEWS.....	4
DP CHART, BOM & EXTRUSIONS.....	5
ANCHOR SCHEDULE & NOTES.....	6
INSTALLATION DETAILS.....	7

MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
84" x 96"	SEE COMPARATIVE ANALYSIS CHART, SHEET 5	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 5):
 -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 7 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-8150.
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



1900 SW 44TH AVE.
 OCALA, FLORIDA 34474
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8150 PVC PICTURE WINDOW NON-IMPACT

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FLORIDA APPROVAL NO.:

4093



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

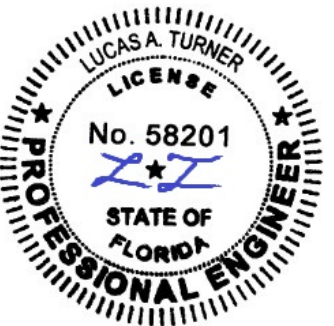
DRAWN BY:	DATE:
MCS	7/31/2023
DWG #:	REV.:
CWS-234	H
SCALE:	SHEET
1:20	1 OF 7

**8150 PVC
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NON-IMPACT**

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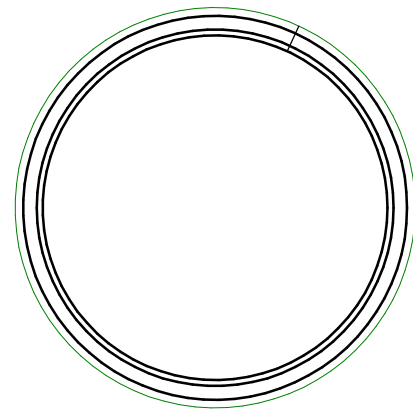
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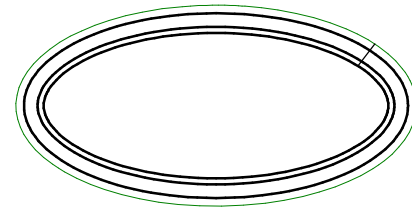
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**ARCHITECTURAL
SHAPES**

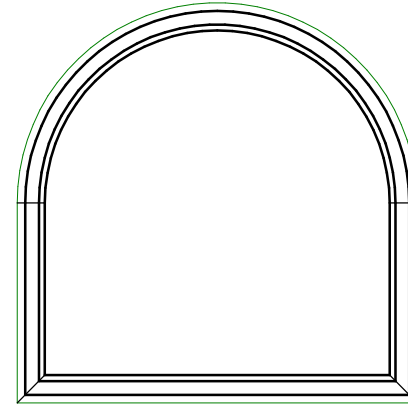
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DWG #: CWS-234	REV.: H
SCALE: 1:20	SHEET 2 OF 7



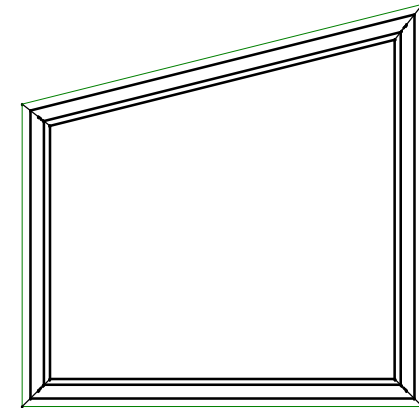
FULL CIRCLE



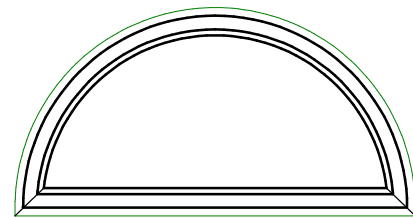
FULL ELLIPSE (OVAL)



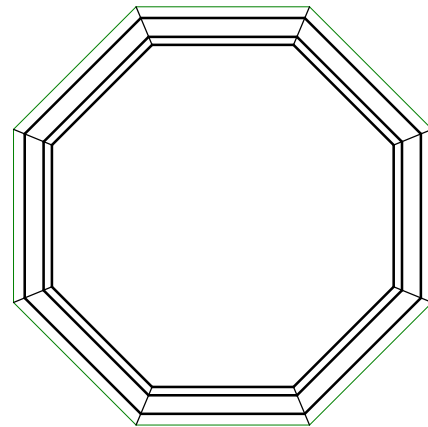
TOMBSTONE



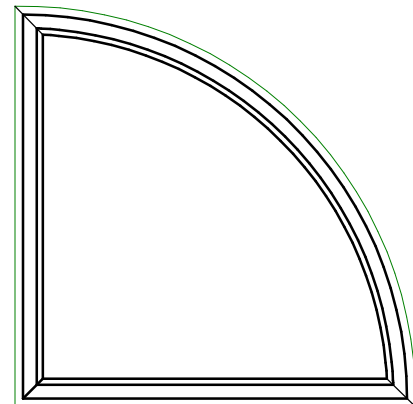
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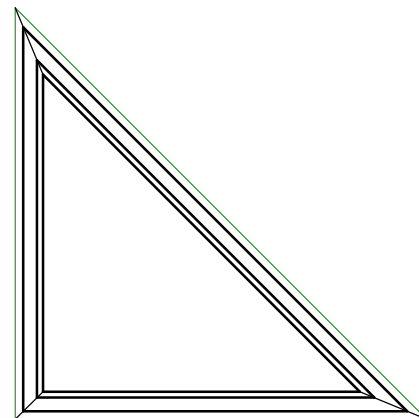
1/2 CIRCLE



OCTAGON



1/4 CIRCLE



TRIANGLE

NOTES:

1. SEE SHEET 6 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 LAYOUTS SHOWN ON SHEET 6, WITH ANCHOR
SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.



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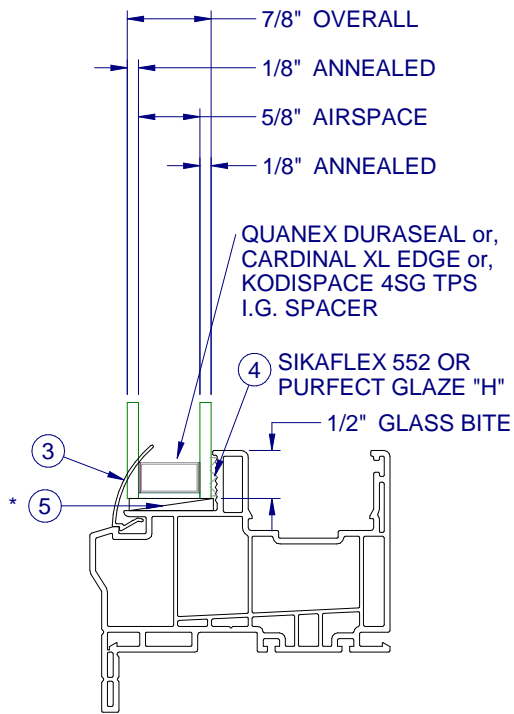
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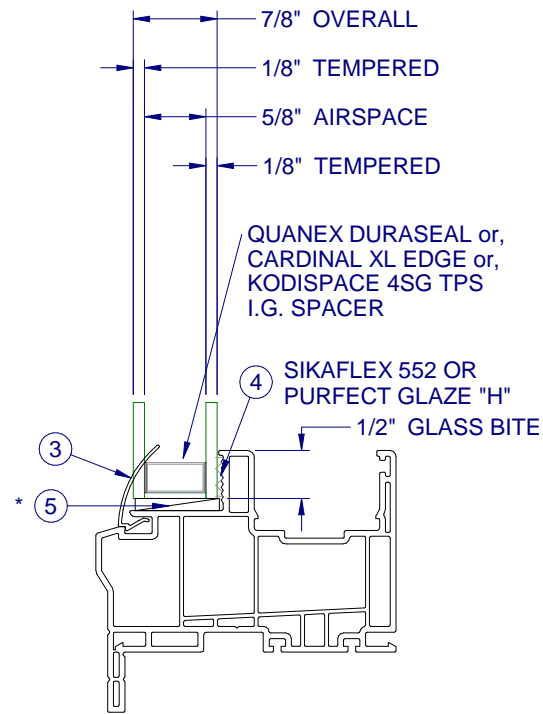
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GLAZING DETAIL

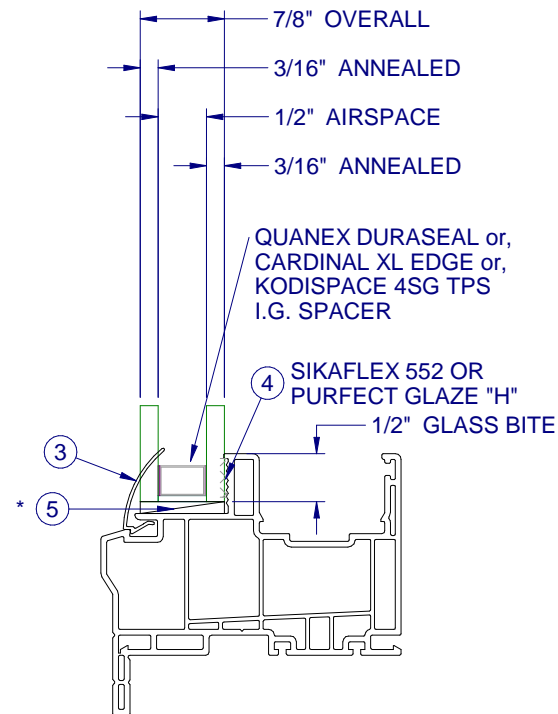
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SCALE:	SHEET
1:2	3 OF 7



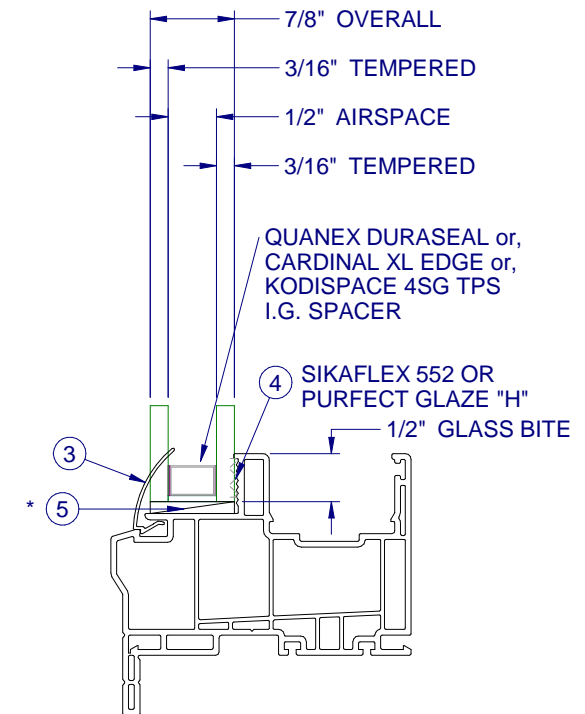
GLASS TYPE A



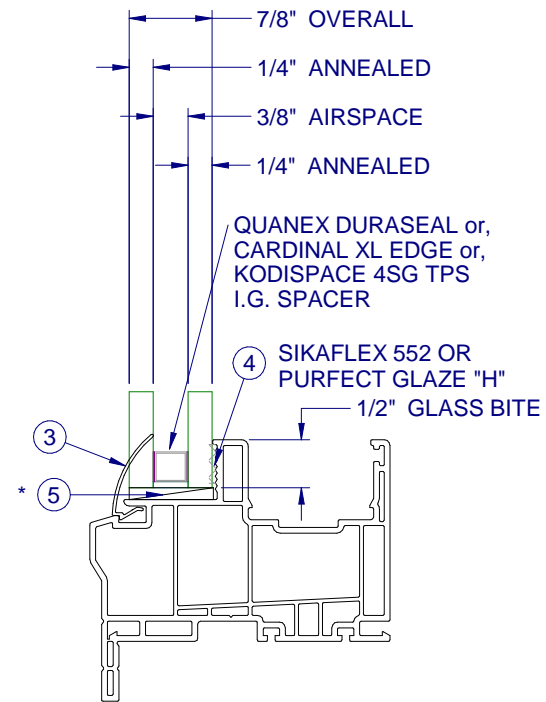
GLASS TYPE B



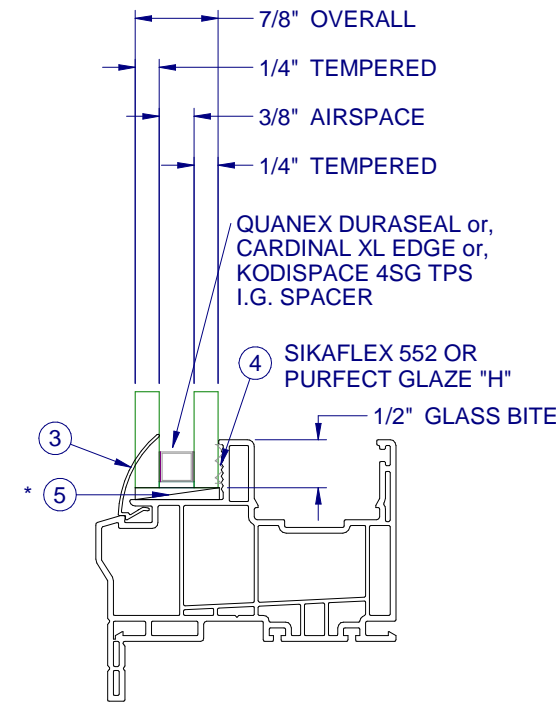
GLASS TYPE C



GLASS TYPE D



GLASS TYPE E



GLASS TYPE F



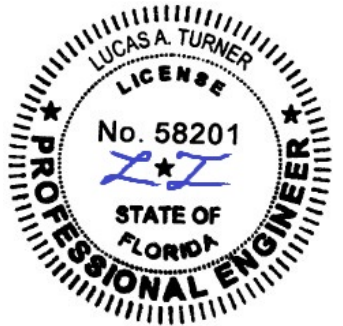
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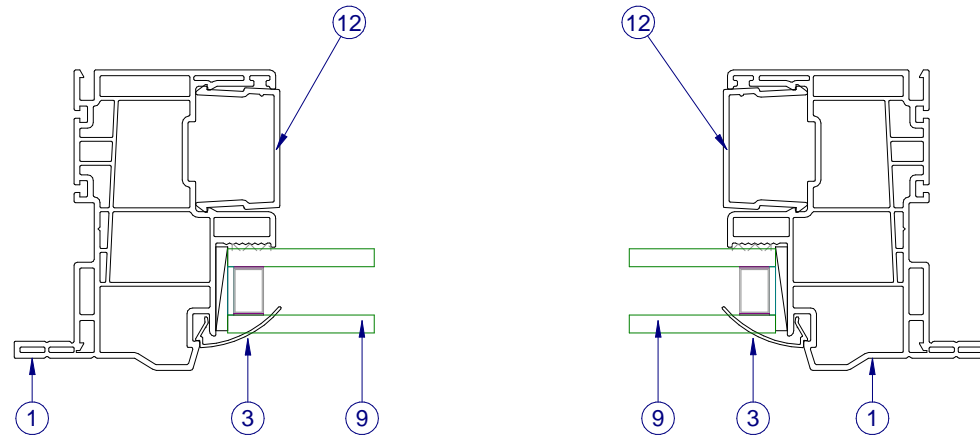
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SHEET DESCRIPTION:

SECTION VIEWS

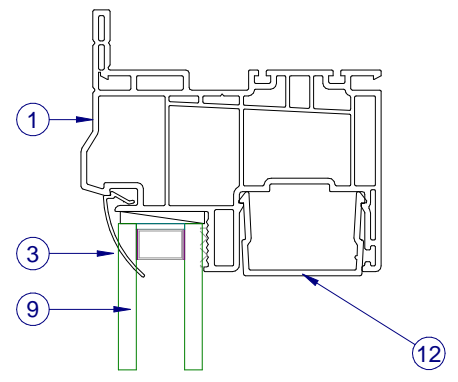
DRAWN BY:	DATE:
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CWS-234	H
SCALE:	SHEET
1:2	4 OF 7

INTERIOR

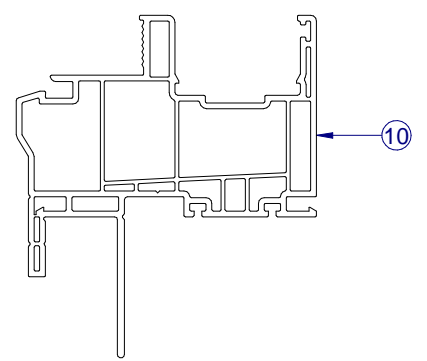


SECTION VIEW B-B

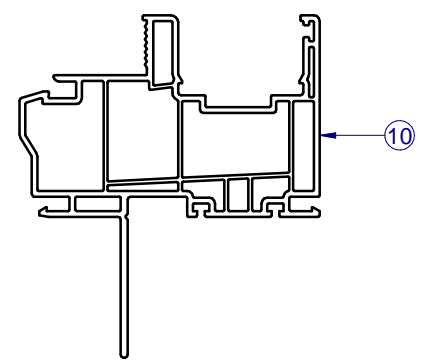
INTERIOR



SECTION VIEW A-A



SECTION VIEW C-C
FIN/FLANGE FRAME



SECTION VIEW C-C
FIN ONLY FRAME

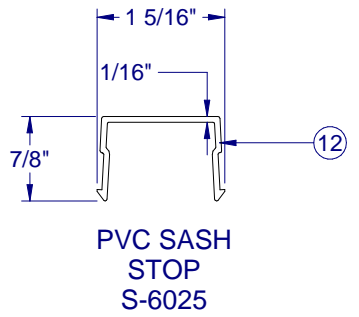
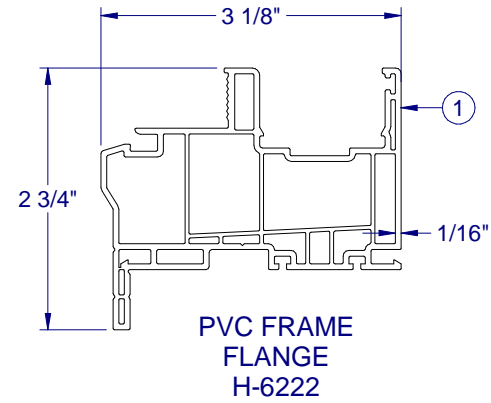
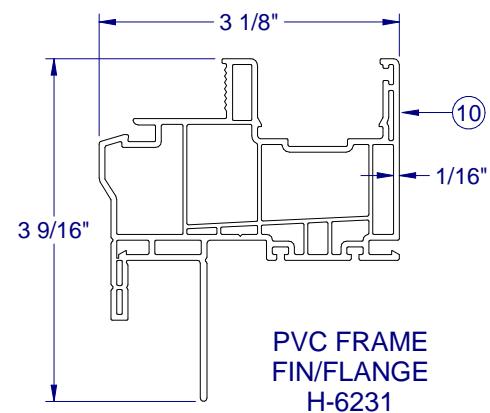
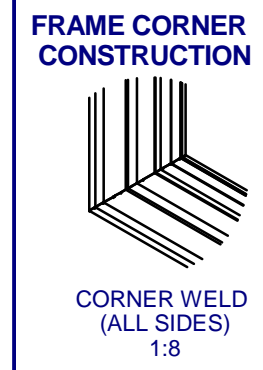
"O" CONFIG. ANNEALED GLASS DESIGN PRESSURES, PSF (POSITIVE AND NEGATIVE PRESSURES ARE EQUAL)																
WINDOW SHORT DIMENSION, UNIT SIZE (IN.)	GLASS TYPE	WINDOW LONG DIMENSION, UNIT SIZE (IN.)														
		18	24	30	36	42	48	54	60	66	72	78	84	90	96	
18	A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
	C	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	
	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	
	24	A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.7	51.1	46.6	43.6	41.6		
		C	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
		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
	30	A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.8	50.4	44.3				
		C	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
		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
	36	A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.7	49.7	45.2				
		C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.9	50.6	47.0
		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
42	A	60.0	60.0	60.0	60.0	60.0	59.8	53.1	48.4	44.6	41.6					
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.2	49.1	45.0	
	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	55.4	
48	A	60.0	60.0	60.0	60.0	59.8	52.7	46.6	43.0							
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	54.2	49.5	45.5	
	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	57.3	52.5	
54	A	60.0	60.0	60.0	60.0	53.1	46.6	42.1								
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.6	51.8	48.2	45.0	
	E	60.0	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	
60	A	60.0	56.7	57.8	54.7	48.4	43.0									
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.4	51.5	48.1	45.4	42.8	
	E	60.0	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	
66	A	60.0	51.1	50.4	49.7	44.6										
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.3	51.3	47.2	44.6	42.1		
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.9	48.2	43.6	
72	A	60.0	46.6	44.3	45.2	41.6										
	C	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.4	51.3	47.3	43.9	41.2		
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.4	54.4	52.5	46.7	
78	A	60.0	43.6													
	C	60.0	60.0	60.0	60.0	60.0	58.9	55.6	51.5	47.2	43.9	41.0				
	E	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.4	46.4	46.4	45.6	40.8	
84	A	60.0	41.6													
	C	60.0	60.0	60.0	54.9	54.2	54.2	51.8	48.1	44.6	41.2					
	E	60.0	60.0	60.0	60.0	60.0	60.0	58.9	56.0	53.9	52.5	46.4	40.0	40.0	40.0	

"O" CONFIG. TEMPERED DESIGN PRESSURES, PSF (POSITIVE AND NEGATIVE PRESSURES ARE EQUAL)														
WINDOW SHORT DIMENSION, UNIT SIZE (IN.)	GLASS TYPE	WINDOW LONG DIMENSION, UNIT SIZE (IN.)												
		36	42	48	54	60	66	72	78	84	90	96		
36	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	
	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
	42	B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.6
		D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.6
	48	B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.3	52.5
		D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.3	52.5
	54	B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	53.3	48.7	
		D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	53.3	48.7	
	60	B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.0	50.4	45.8	
		D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.0	50.4	45.8	
	66	B	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.9	48.2	43.6	
		D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.9	48.2	43.6	
72	B	60.0	60.0	60.0	60.0	60.0	60.0	54.4	54.4	52.5	46.7	42.0		
	D, F	60.0	60.0	60.0	60.0	60.0	60.0	54.4	54.4	52.5	46.7	42.0		
78	B	60.0	60.0	60.0	60.0	60.0	60.0	54.4	46.4	46.4	45.6	40.8		
	D, F	60.0	60.0	60.0	60.0	60.0	60.0	54.4	46.4	46.4	45.6	40.8		
84	B	60.0	60.0	60.0	58.9	56.0	53.9	52.5	46.4					
	D, F	60.0	60.0	60.0	58.9	56.0	53.9	52.5	46.4	40.0	40.0	40.0		

NOTES:
1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.
2. IF SIZE IS SHADED, IT IS NOT AVAILABLE WITH THAT GLASS TYPE.

PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	H-6222	FRAME W/FLANGE -SH	PVC
3	S-6237	GLAZING BEAD, FIXED (7/8" OA IG)	PVC
4	P-3438	PURFECT GLAZE "H" OR SIKAFLEX 552	
5	P-5612	Setting Block, .12 x 1 x 2	Rubber
7	P-5579	NFRC LABEL, BLANK, 4 X 8 LABEL	
8	P-5304	LABEL, 9X9 CWS LOGO LABEL	
9		Glass, Fixed (See Sheet 7)	
10	H-6231	FRAME W/FIN & FLANGE	PVC
12	H-6025	SASH STOP	PVC

LINE ITEMS NOT USED:
2, 6, 11



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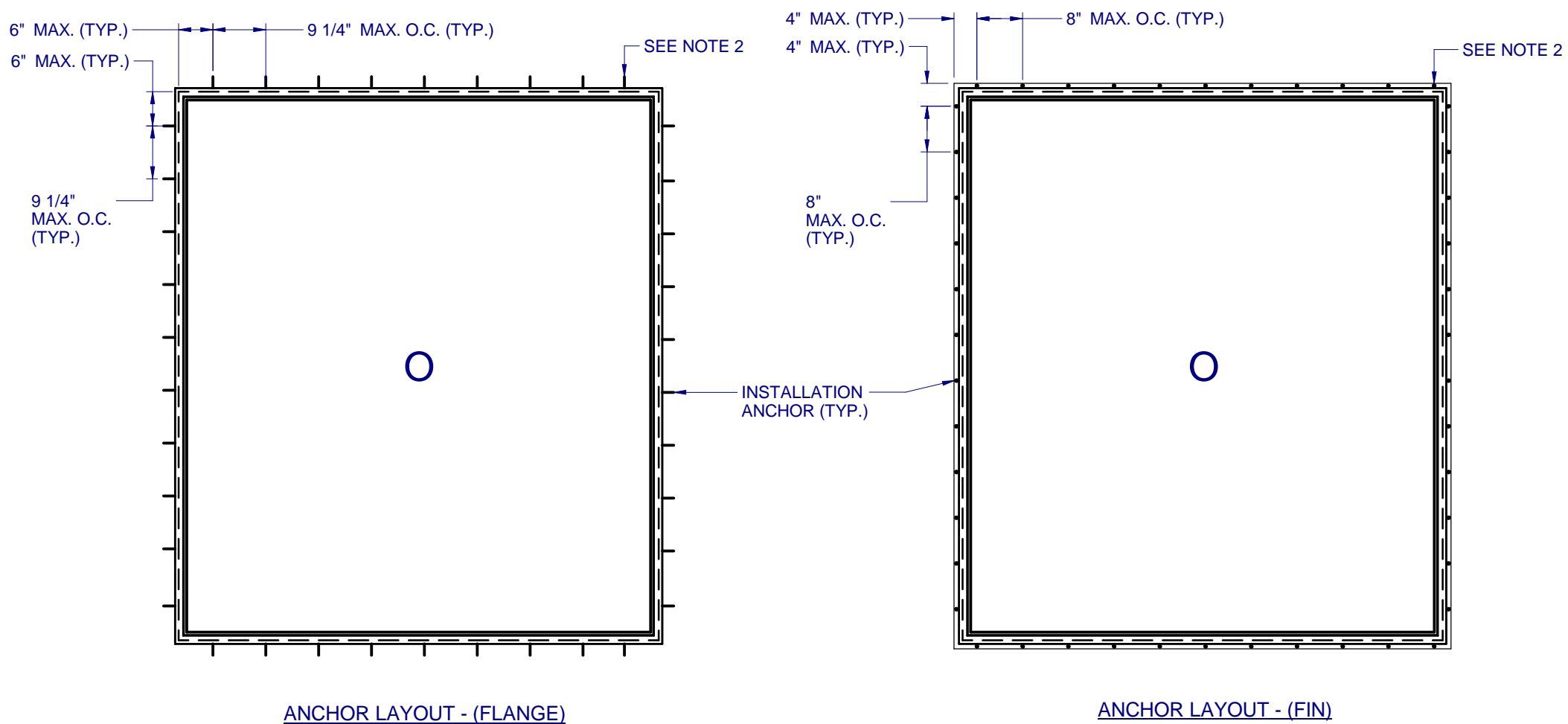
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SHEET DESCRIPTION:
DP CHART, BOM AND EXTRUSIONS

DRAWN BY: MCS	DATE: 7/31/2023
DWG #: CWS-234	REV.: H
SCALE: 1:2	SHEET 5 OF 7



ANCHOR LAYOUT - (FLANGE)

ANCHOR LAYOUT - (FIN)

- 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 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 - 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 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)

**8150 PVC
PICTURE WINDOW
NON-IMPACT**

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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:
ANCHOR SCHEDULE AND NOTES

DRAWN BY:	DATE:
MCS	7/31/2023
DWG #:	REV.:
CWS-234	H
SCALE:	SHEET
1:25	6 OF 7



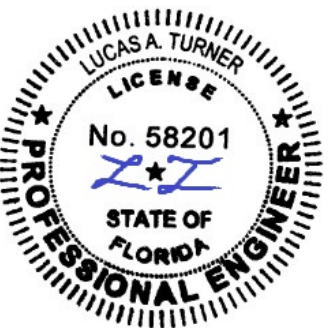
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OCALA, FLORIDA 34474
WWW.CWS.CC

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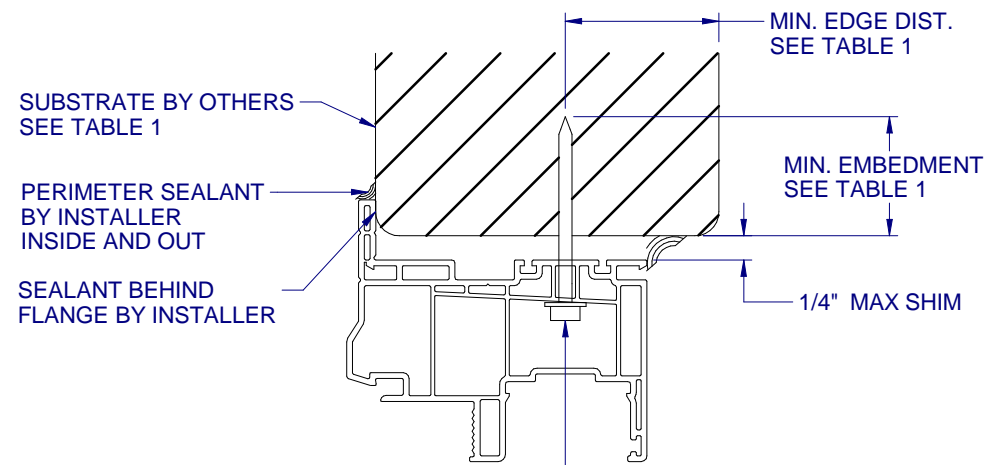
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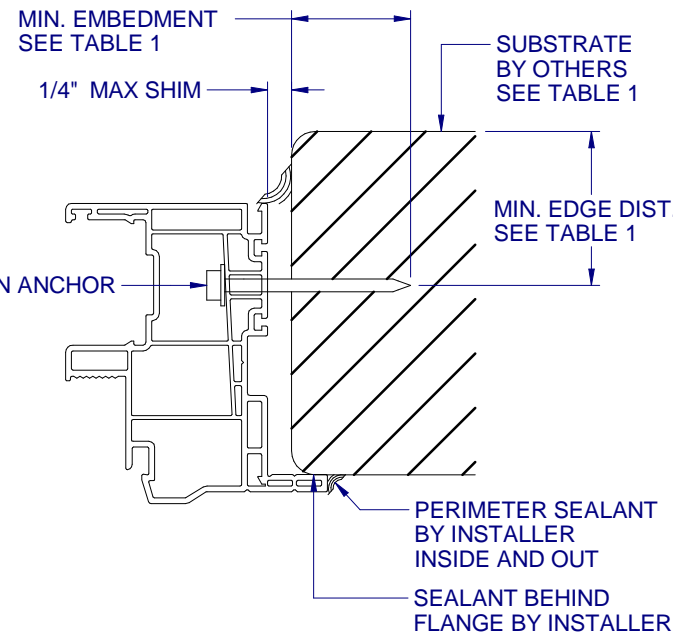
INSTALLATION DETAILS

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DWG #:	REV.:
CWS-234	H
SCALE:	SHEET
1:2	7 OF 7

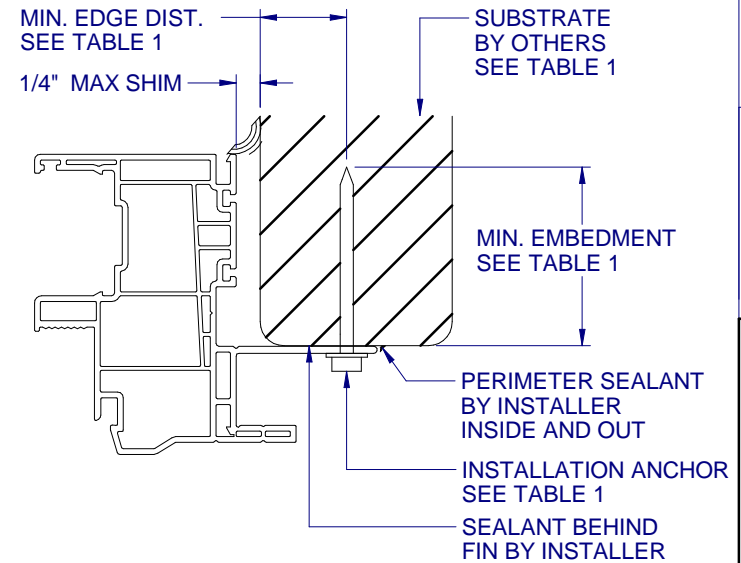
TYPICAL HEAD ANCHORAGE



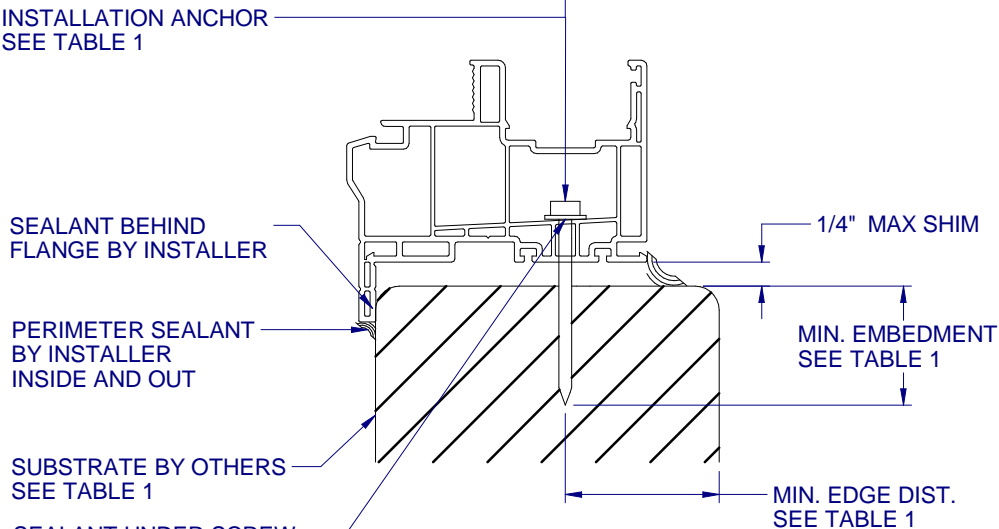
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VERTICAL SECTION
TYPICAL SILL ANCHORAGE



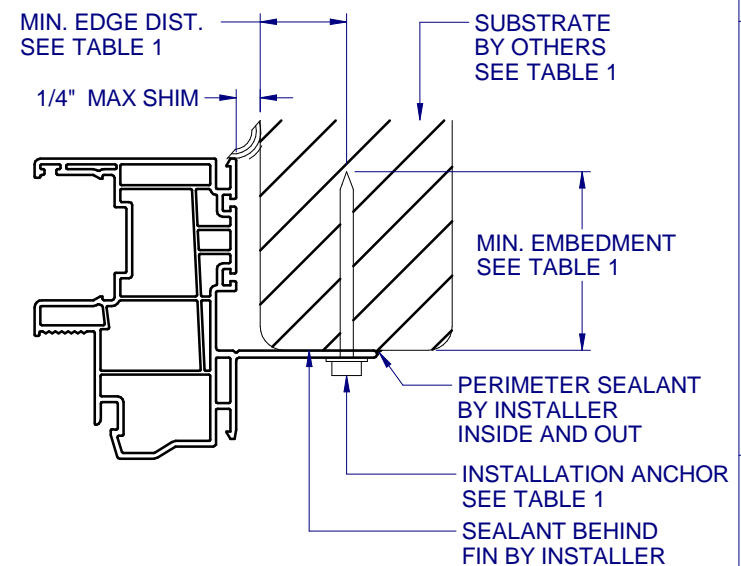
B
7
HORIZONTAL SECTION
TYPICAL JAMB ANCHORAGE



C
7
HORIZONTAL SECTION
TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN INSTALLATION



D
7
HORIZONTAL SECTION
BOX FRAME INSTALLATION
HEAD AND SILL SIMILAR FOR BOX INSTALLATION



E
7
HORIZONTAL SECTION
TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN INSTALLATION

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)	#8 WOOD SCREW	1-1/2"	7/16"

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.