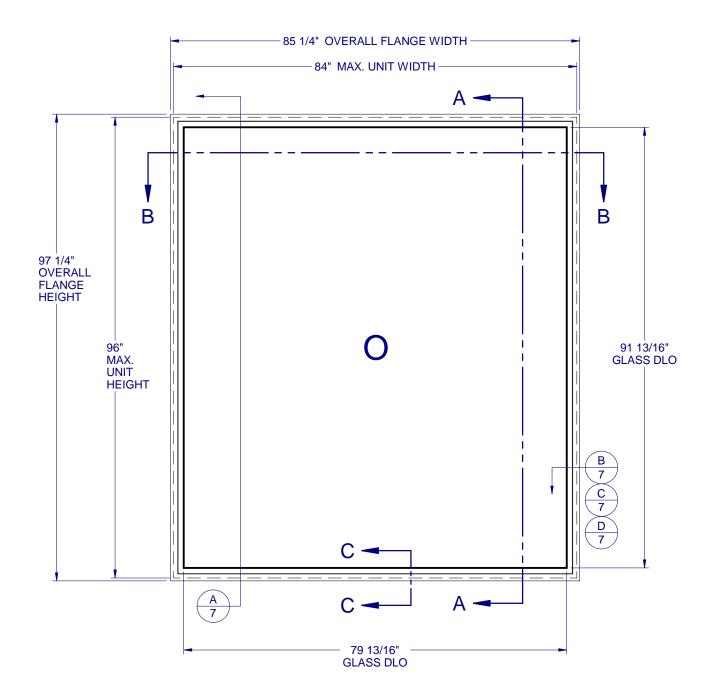
PICTURE WINDOW - NON-IMPACT



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 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.

CUSTOM WINDOW SYSTEMS

1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC PICTURE WINDOW NON-IMPACT

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8/05/2020

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

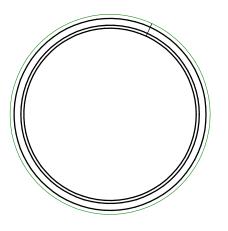
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GENERAL NOTES AND ELEVATIONS

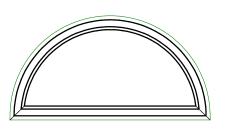
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AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1:20	1 OF 7

TABLE OF CONTENTS

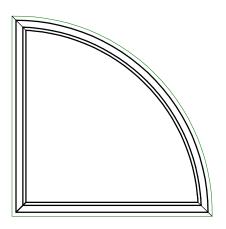
MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
84" x 96"	SEE COMPARATIVE ANALYSIS	NONE
	CHART, SHEET 5	



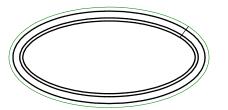
FULL CIRCLE



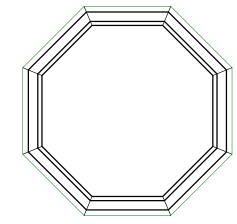
1/2 CIRCLE



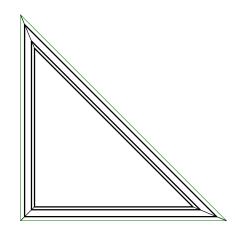
1/4 CIRCLE



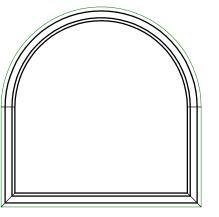
FULL ELLIPSE (OVAL)



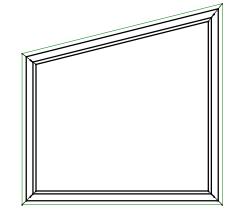
OCTAGON



TRIANGLE



TOMBSTONE



TRAPEZOID

NOTES:

- 1. SEE SHEET 6 FOR DETAILED ANCHOR INSTALLATION REQUIREMENTS.
- 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 ARCHITECTUAL FLANGE AND FIN WINDOWS MUST FOLLOW THE LAYOUTS SHOWN ON SHEET 6, WITH ANCHOR SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.



1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC PICTURE WINDOW NON-IMPACT

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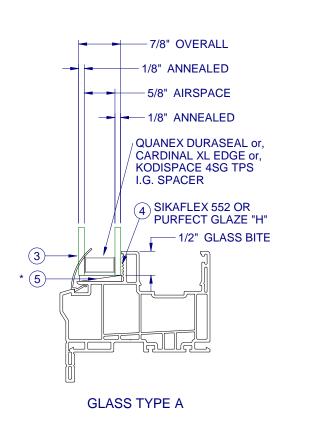
8/05/2020

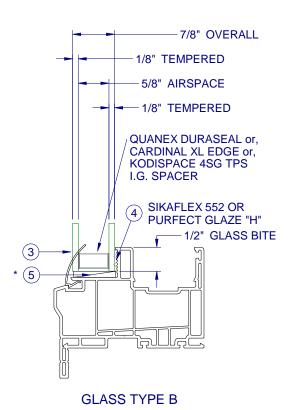
LUCAS A. TURNER, P.E. FL PE # 58201 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

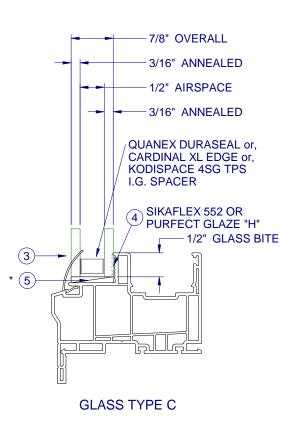
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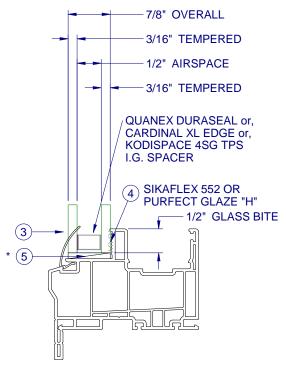
ARCHITECTURAL SHAPES

DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
CW 3-234	G
SCALE:	SHEET







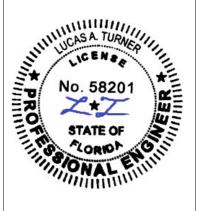


GLASS TYPE D



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WINDOW SYSTEMS



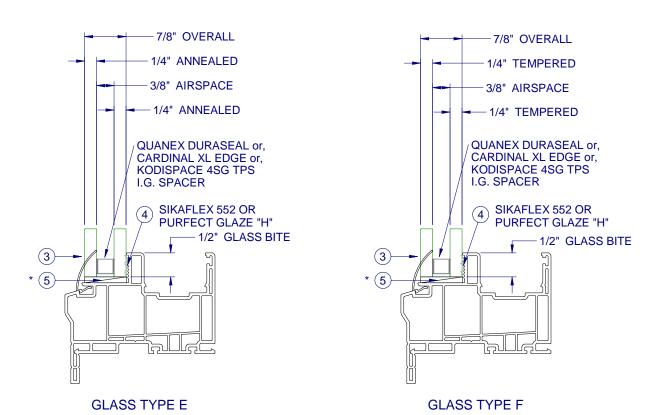
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LUCAS A. TURNER, P.E. FL PE # 58201 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

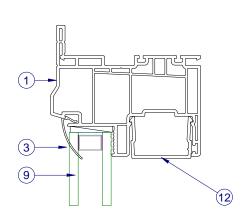
SHEET DESCRIPTION:

GLAZING DETAIL

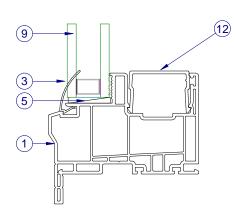
DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1:2	3 OF 7



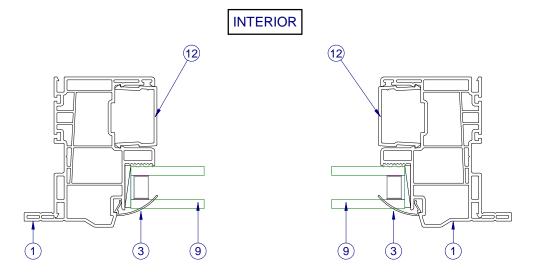
* SETTING BLOCKS PER FBC 2411.3.3.1



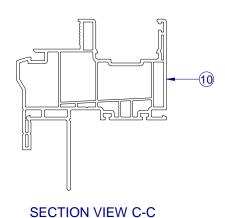
INTERIOR



SECTION VIEW A-A



SECTION VIEW B-B

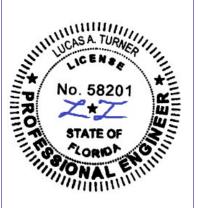


CUSTOMO WINDOW SYSTEMS 1900 SW 44TH AVE.

1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC PICTURE WINDOW NON-IMPACT

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

SHEET DESCRIPTION:

SECTION VIEWS

DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1:2	4 OF 7

		"(D" CONFI	G. ANNEA	LED GLA	SS DESIG	ON PRESS	SURES, P	SF (POSI	TIVE AND	NEGATI	VE PRESS	SURES AF	RE EQUAL)	
		GLASS				WI	NDOW LC	NG DIME	NSION, U	NIT SIZE (IN.)					
		TYPE	18	24	30	36	42	48	54	60	66	72	78	84	90	96
		Α	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
	18	С	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
		Е	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
		Α	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.7	51.1	46.6	43.6	41.6		
	24	С	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
		Е	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
		Α	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.8	50.4	44.3				
	30	С	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
		Е	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
		Α	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.7	49.7	45.2				
(IN.)	36	С	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
		Е	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
SIZE		Α	60.0	60.0	60.0	60.0	60.0	59.8	53.1	48.4	44.6	41.6				
b	42	С	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
LINO	l	Е	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
ź		Α	60.0	60.0	60.0	60.0	59.8	52.7	46.6	43.0						
DIMENSION,	48	С	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
S		Е	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
≝		Α	60.0	60.0	60.0	60.0	53.1	46.6	42.1							
□	54	С	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
ᅜ		Е	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
오		Α	60.0	56.7	57.8	54.7	48.4	43.0								
S >	60	С	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
ŏ		Е	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
WINDOW SHORT		Α	60.0	51.1	50.4	49.7	44.6									
≥	66	С	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	
		Е	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
		Α	60.0	46.6	44.3	45.2	41.6									
	72	С	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.4	51.3	47.3	43.9	41.2		
		Е	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	42.0
		Α	60.0	43.6												
	78	С	60.0	60.0	60.0	60.0	60.0	58.9	55.6	51.5	47.2	43.9	41.0			
		Е	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
		Α	60.0	41.6												
	84	С	60.0	60.0	60.0	54.9	54.2	54.2	51.8	48.1	44.6	41.2				
		Е	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)												
		GLASS	WINDOW LONG DIMENSION, UNIT SIZE (IN.)										
		TYPE	36	42	48	54	60	66	72	78	84	90	96
	36	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
(IN.)	30	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	42	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.6
SIZE	42	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.6
	48	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.3	52.5
UNIT	40	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.3	52.5
	54	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	53.3	48.7
DIMENSION,	54	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	53.3	48.7
N.	60	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.0	50.4	45.8
ME	00	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	В	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.9	48.2	43.6
SHORT	00	D, F	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	53.9	48.2	43.6
H	72	В	60.0	60.0	60.0	60.0	60.0	60.0	54.4	54.4	52.5	46.7	42.0
	12	D, F	60.0	60.0	60.0	60.0	60.0	60.0	54.4	54.4	52.5	46.7	42.0
ò	78	В	60.0	60.0	60.0	60.0	60.0	60.0	54.4	46.4	46.4	45.6	40.8
WINDOW	10	D, F	60.0	60.0	60.0	60.0	60.0	60.0	54.4	46.4	46.4	45.6	40.8
\wedge	84	В	60.0	60.0	60.0	58.9	56.0	53.9	52.5	46.4			
	04	D, F	60.0	60.0	60.0	58.9	56.0	53.9	52.5	46.4	40.0	40.0	40.0

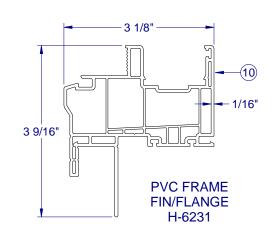
1. IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.

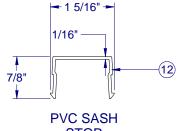
2. IF SIZE IS SHADED, IT IS NOT AVAILABLE WITH THAT GLASS TYPE.

PARTS LIST PART # DESCRIPTION MATERIAL ITEM PVC H-6222 Fr., PW, Main, Flg 3 S-6237 Glz. Bd., Fxd. (7/8" O.A. I.G.) PVC P-3438 Sikaflex 552 or Purfect Glaze "H" 4 P-5582 Set. Blk., 85 Dur., 1/8" x 5/8" x 2" Lg. Rubber P-3881 Temporary Lbl. (NFRC/DP) 8 P-3613 CWS Lbl. (logo) 9 Glass, Fixed (See Sheet 7) Fr. Main, PVC, Fin PVC 10 H-6231 12 PVC H-6025 Frame Filler

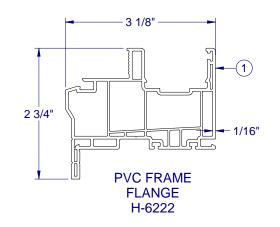
LINE ITEMS NOT USED: 2, 6, 11

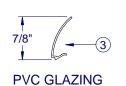












BEAD

S-6237



1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC **PICTURE WINDOW NON-IMPACT**

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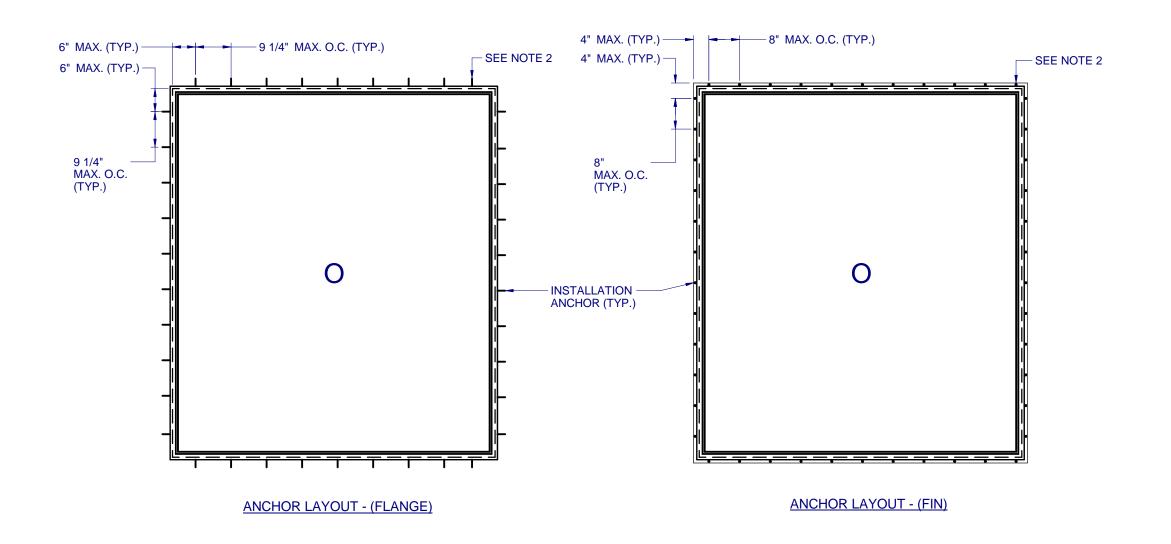
8/05/2020

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

SHEET DESCRIPTION:

DP CHART, BOM AND **EXTRUSIONS**

DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1:1	5 OF 7



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 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)



1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC PICTURE WINDOW NON-IMPACT

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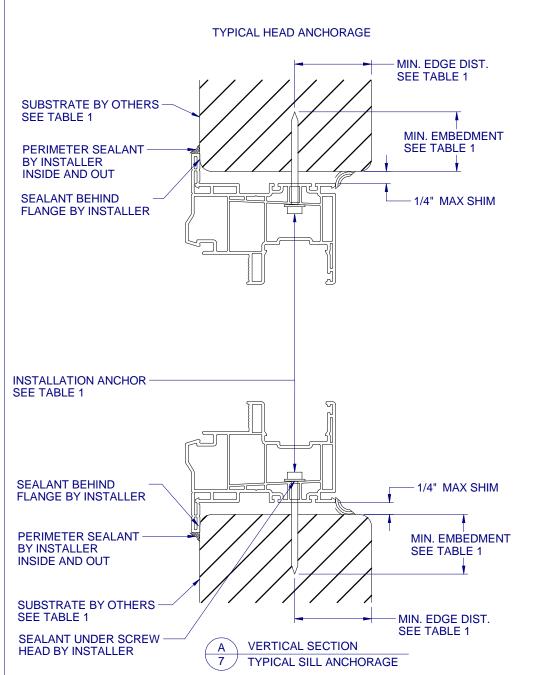
8/05/2020

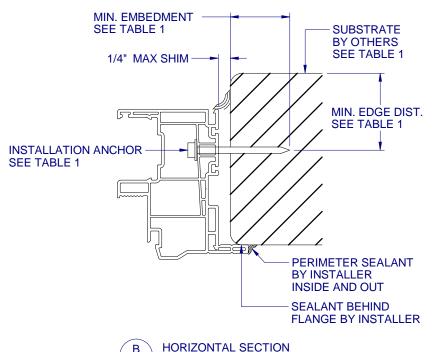
LUCAS A. TURNER, P.E. FL PE # 58201 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

SHEET DESCRIPTION:

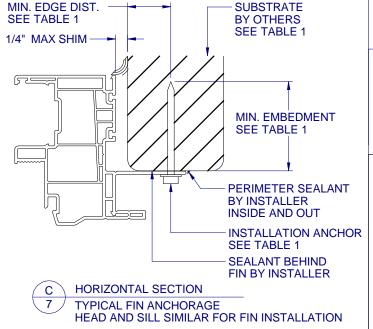
ANCHOR SCHEDULE AND NOTES

DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1:25	6 OF 7





TYPICAL JAMB ANCHORAGE



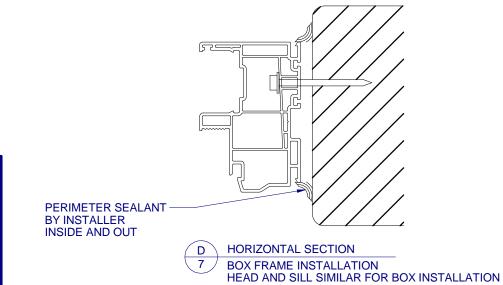


TABLE 1: APPROVED INSTALLATION FASTENERS FRAME TYPE SUBSTRATE TYPE **ANCHOR TYPE** MIN. EMBEDMENT MIN. EDGE DIST. **FLANGE** 3/16" ITW TAPCON CONCRETE (2.0 KSI MIN.) 1-1/21-1/8 FLANGE HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.) 3/16" ITW TAPCON 2" 1" **FLANGE** CONCRETE (2.85 KSI MIN.) 3/16" ELCO ULTRACON 1" 1" 3/16" ELCO ULTRACON **FLANGE** GROUT-FILLED CMU (ASTM C-90) 1-1/4" 2-1/2" 3/16" ITW TAPCON **FLANGE** 2X MIN. SOUTHERN PINE (G=0.55) 1-3/8" 7/8" OR ELCO ULTRACON FLANGE 2X MIN. SOUTHERN PINE (G=0.55) #10 WOOD SCREW 1-3/8" 7/8" FULL THREAD 16 GAUGE (0.060") MIN. STEEL STUD #10-16 HILTI KWIK-FLEX OR ITW **FLANGE** 7/16" (33 KSI YIELD MIN) TEKS SELF-DRILLING SCREW THRU 0.060" 1/8" ALUM. (6063-T5 MIN.) OR #10 GRADE 5 SELF-TAPPING / **FULL THREAD FLANGE** 7/16" 1/8" STEEL (33 KSI MIN.) **DRILLING SCREW** THRU 0.125' 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.



1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8150 PVC PICTURE WINDOW NON-IMPACT

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8/05/2020

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

SHEET DESCRIPTION:

INSTALLATION DETAILS

DRAWN BY:	DATE:
AAJ	06/17/08
DWG #:	REV.:
CWS-234	G
SCALE:	SHEET
1.2	7 OF 7