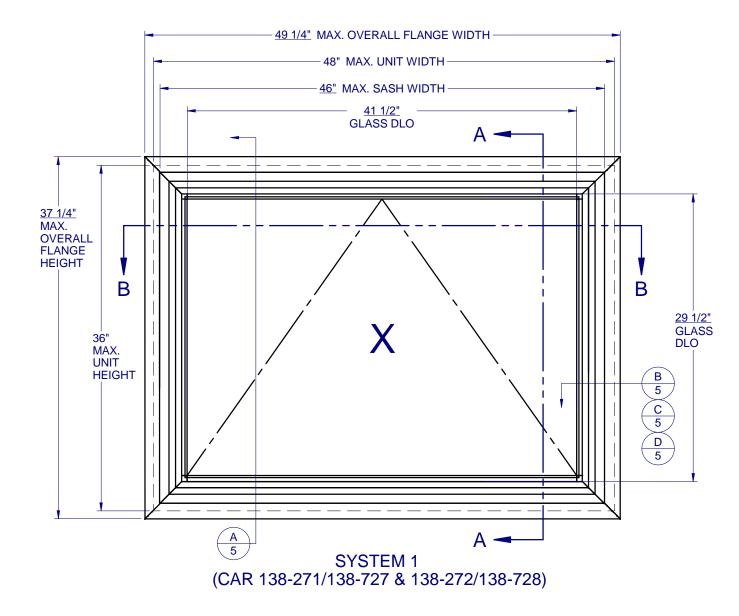
# MODEL 8450 SYSTEM 1 **AWNING - LARGE MISSILE IMPACT**



### GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC). WITH TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008.
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: ALL WINDOWS ARE OPEN FROM BOTTOM TO OUTSIDE.
- 4. 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.
- 5. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- 6. ALL FRAMES ARE PROCESSED AND SCREWED TOGETHER. PVC VENTS FULLY WELDED.
- 7. SERIES/MODEL DESIGNATION AW-8450.
- 8. THE DESIGNATION X STANDS FOR THE FOLLOWING: X = OPERABLE SASH
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

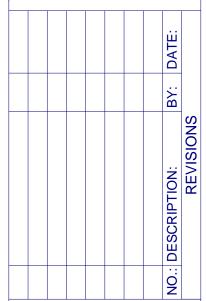
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WINDOW SYSTEMS

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





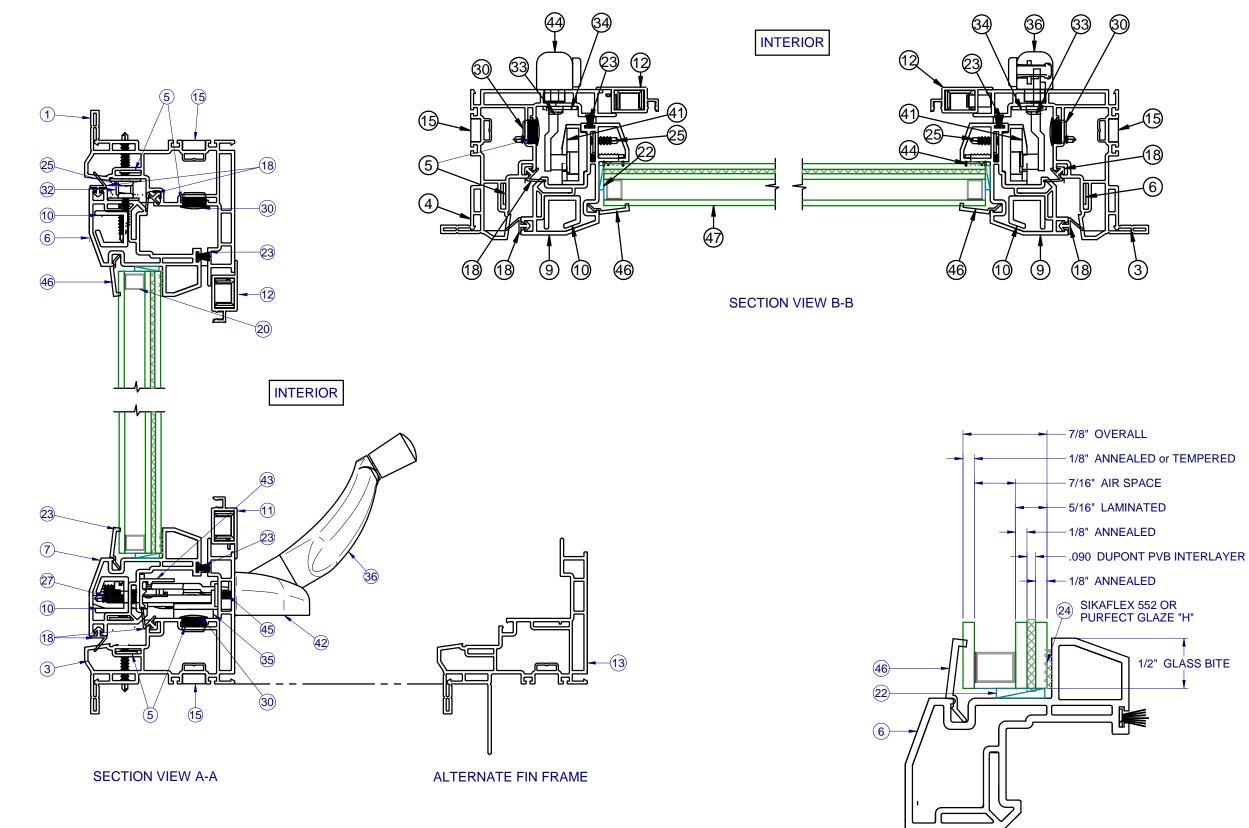


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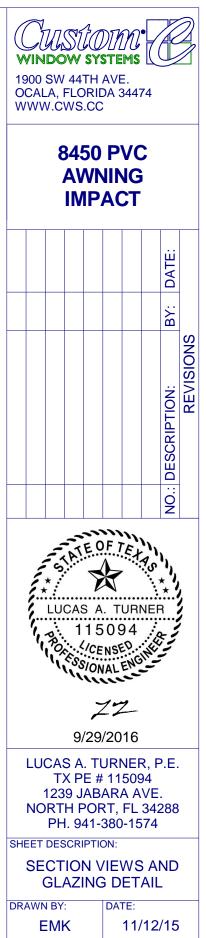
SHEET DESCRIPTION:

## **GENERAL NOTES AND ELEVATIONS**

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-163	-
SCALE:	SHEET
1:10	1 OF 5

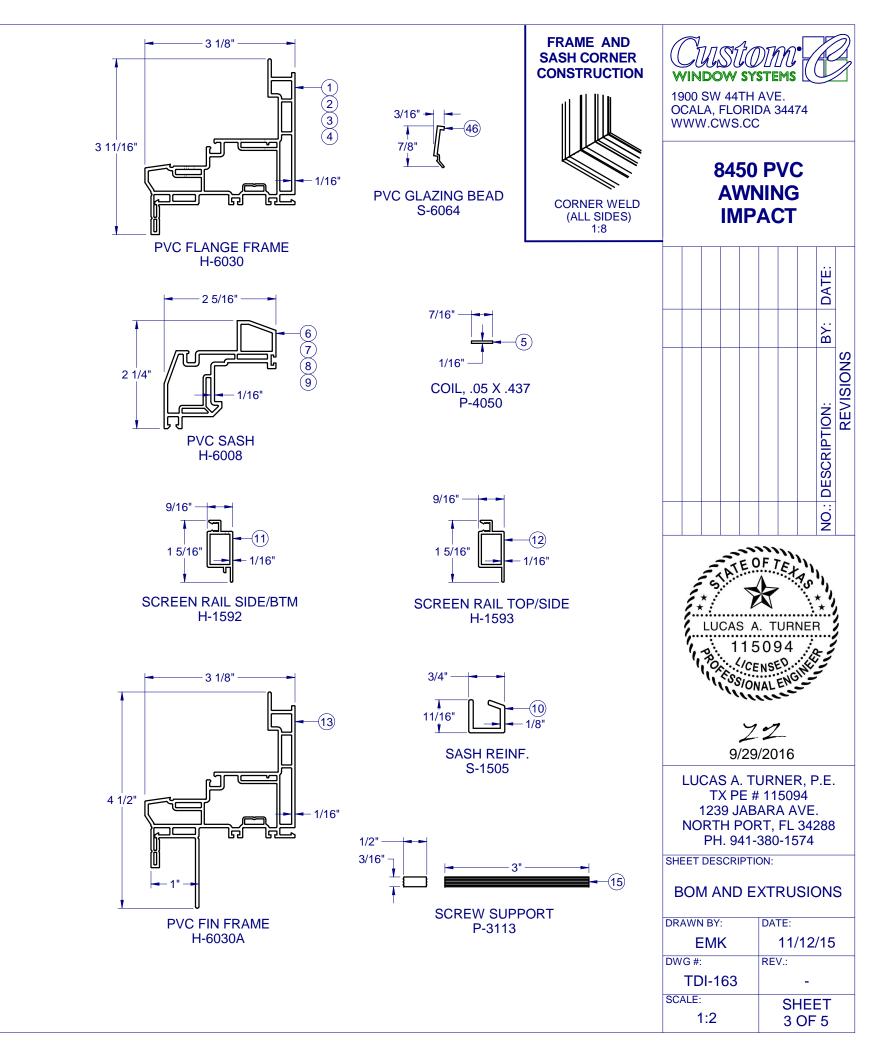


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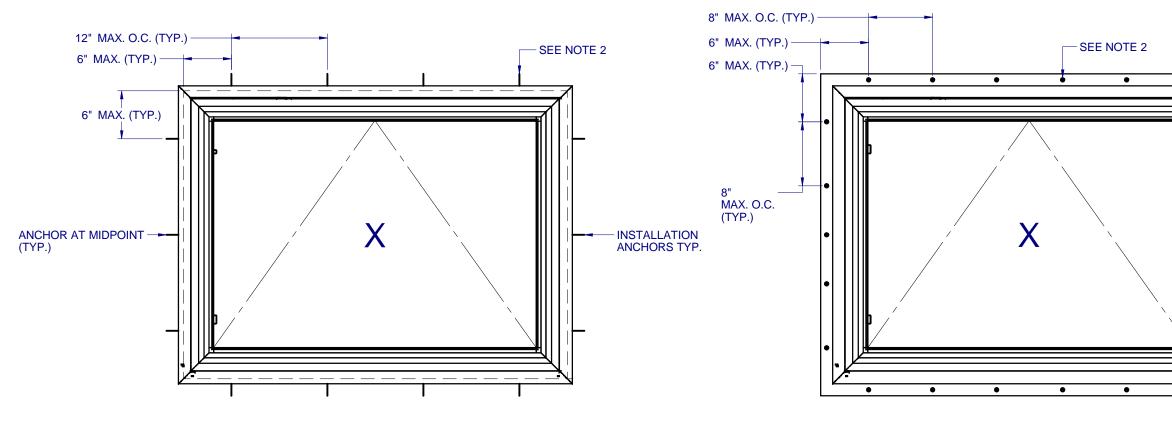


REV.: DWG #: **TDI-163** -SCALE: SHEET 1:2 2 OF 5

ITEM	PART #	DESCRIPTION	VENDOR	MATERIAL
1		FR., AWNING., MAIN, HEAD	Mikron	Rigid PVC
2		FR., AWNING, MAIN, SILL	Mikron	Rigid PVC
3		FR., AWNING, MAIN, JB., RIGHT	Mikron	Rigid PVC
4		FR., AWNING, MAIN, JB., LEFT	Mikron	Rigid PVC
5		COIL-ALUMINUM, 5052-H32 (.050 X .437) JB, LEFT	Precision Steel	Aluminum
6		SASH, AWNING, TOP RAIL	Mikron	Rigid PVC
7		SASH, AWNING, BOT. RAIL	Mikron	Rigid PVC
8		SASH, AWNING, SIDE RAIL, RIGHT	Mikron	Rigid PVC
9		SASH, AWNING, SIDE RAIL, LEFT	Mikron	Rigid PVC
10		REINF. AWNING, SASH SIDE RAIL LEFT	Keymark	Aluminum
11		SCREEN RAIL, SIDE	Keymark	Aluminum
12		SCREEN RAIL, TOP/BTM/SIDE	Keymark	Aluminum
13		FR., AWNING., MAIN, HEAD, W/ INTEGRAL FIN	Mikron	Rigid PVC
14		SCREEN LIFT-OUT	Hurley	Steel
15		SCREW SUPPORT FOR PVC	Team	Rubber
16		SCREEN SPRING, NO HOLE TENSION	Hurley	Steel
17	P-3197	SCREEN CORNER KEY	M&M	Nylon
18		WSTP., WHITE LEAF SEAL, FRAME	Amesbury	Rubber
19	P-3228	SCREEN SPLINE, .155 DIA, BLK	Dapa	Foam
20	P-3281	SPACER, DURASEAL, .SEE SHEET 3	Truseal	
21	P-3342	SEAM SEALER, SM-5504	Schnee	Silicone
22	P-3352	SET. BLK., 85 DUR., 1/8" X 5/8" X 2" LG.	Frank Lowe	Rubber
23	P-3429	WSTP., .270 X.187 BACK, ULTRA FIN, BLACK, SASH	Ultrafab	Nylon
24	P-3438	PURFECT GLAZE "H", SIKA FLEX 552	Truseal/Sika	Silicone
25	P-3539	#8 X 3/4" QUAD PH TEK, ZINC, SCREW	Fastenal	Steel
26	P-3581	SCREEN CLOTH, 18 X 16 FIBERGLASS	Wier	Fiberglass
27	P-3587	#8 X 1" PH FH TEK 2, ZINC, SCREW	Fastenal	Steel
28	P-3613	CWS LBL. (LOGO)		
29	P-3736	AW-8400 GOLD CERT. LABEL, NFRC TAB		
30	P-3752	CAP PLUG, 1/2" HOLE	M&M	Nylon
31		TEMPORARY LBL. (NFRC/DP)		
32		SNUBBER, SS, PVC		
33		#8-32 X 1/2" PH PH, MS, SS (ROTO HDWE. LOCK)	Fastenal	Steel
34		SUPPORT PLATE, LOCK, SS, ROTO HDWE. (Use w/ P-		Stainless
35		SHIM, ROTO OPERATOR, ROTO HDWE. (4.8mm)	Roto	Stainless
36		HANDLE, STD, ROTO OPER, ROTO HDWE. (WHITE)	Roto	Stainless
37		HINGE ARM, WASHABILITY, 13", ROTO HARDWARE	Roto	Stainless
38	P-4018	HINGE TRACK, 13" ROTO HDWE., "A" & "B"	Roto	Stainless
39	P-4024	GASKET, ROTO OPER., ROTO HDWE., 1/16"	HOP	Closed Cell
40	P-4042	GASKET, LOCK	HOP	Closed Cell
41	P-4043	STRIKE, MULTI-POINT	Progress Plastics	Plastic
42		ROTO OPER., SCISSOR ARM, AWNING	Roto	Stainless
43	P-4045	SWIVEL BRACKET, ROTO OPER., AWNING	Roto	Stainless
44		LOCK, SINGLE-POINT, ROTO HDWE., WHITE	Roto	Stainless
45		#8-32 x 3/4" Phil Trilobe Truss, SS	Fastenal	Steel
46	S-6064	GLZ. BD., 7/8"	Mikron	Rigid PVC
47	GLASS	SEE SHEET 2		



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

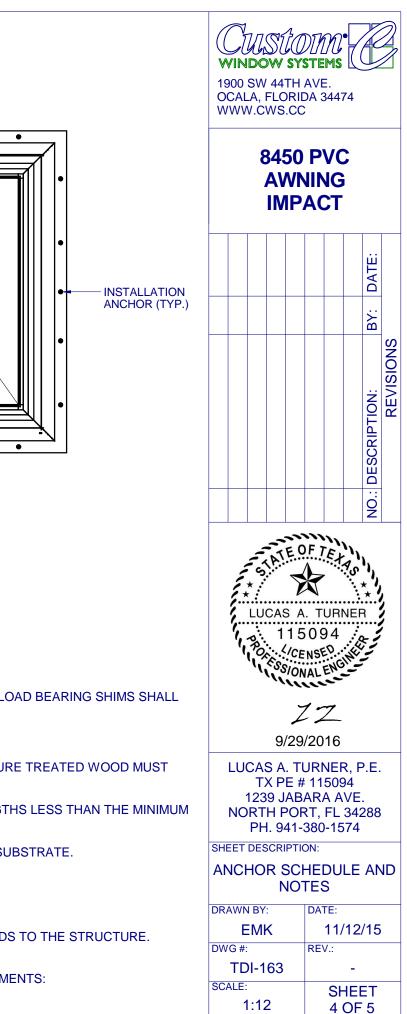


ANCHOR LAYOUT - (FLANGE)

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 BECONSTRUCTED 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)



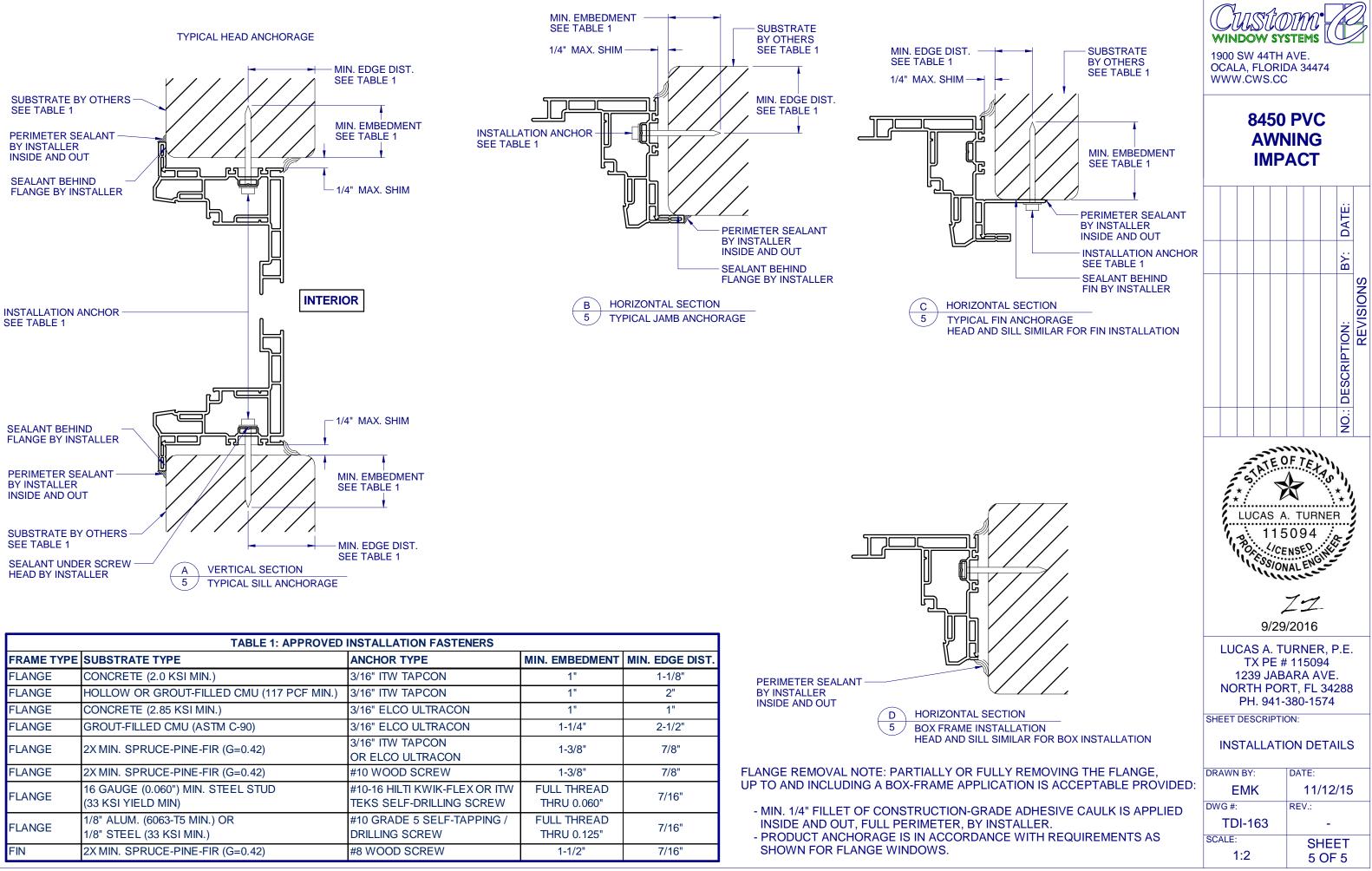


TABLE 1: APPROVED INSTALLATION FASTENERS					
FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.	
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"	
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"	
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	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"	

