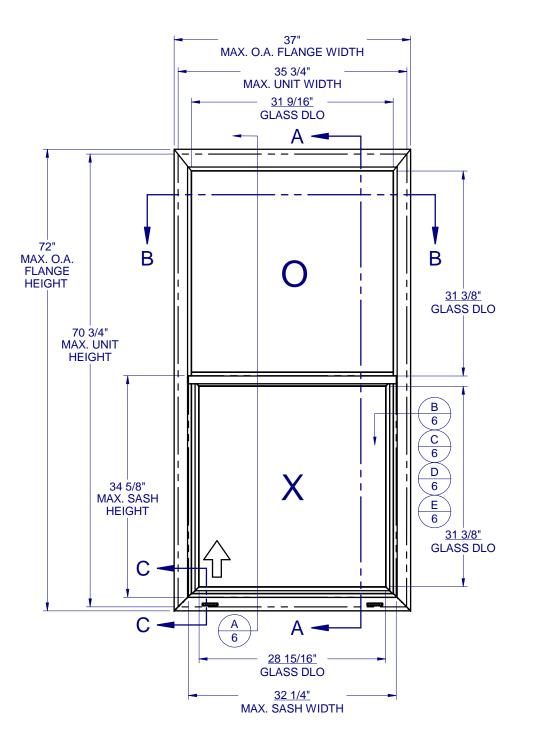
SINGLE HUNG - LARGE MISSILE IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION AND IS RATED FOR MISSILE LEVEL D IMPACT USE IN WIND ZONE 3 AREAS AS DEFINED IN ASTM E 1996 PER THE FBC.

THIS PRODUCT MAY NOT BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OR IN ASTM E 1996 WIND ZONE 4 AREAS.

- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: "O/X".
- 4. DESIGN PRESSURE RATING:
 -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.

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 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- 7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
- 8. SERIES / MODEL DESIGNATION SH-8100.
- 9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: X = OPERABLE SASH, O = FIXED SASH
- 10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
- 11. WEEP SLOTS = 1/4" x 1-1/4" LOCATED 4" FROM BOTH ENDS.

CUSTOM WINDOW SYSTEMS

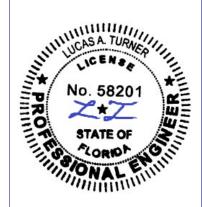
1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

8100 PVC SINGLE HUNG IMPACT

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PROPRIETARY



1/21/2022

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

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

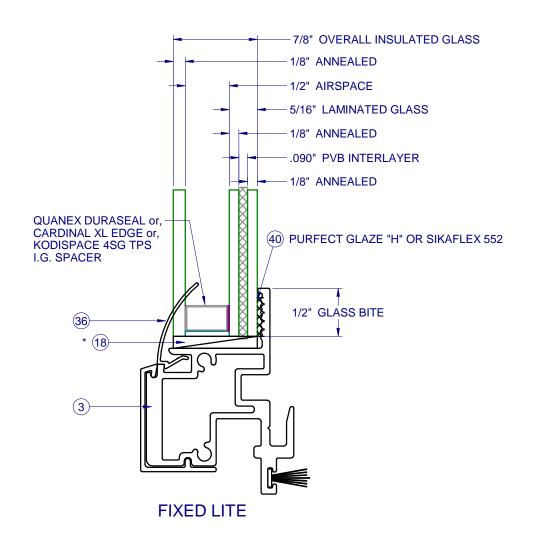
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EMK	09/18/14
DWG #:	REV.:
CWS-957	Е
SCALE:	SHEET
1:15	1 OF 6

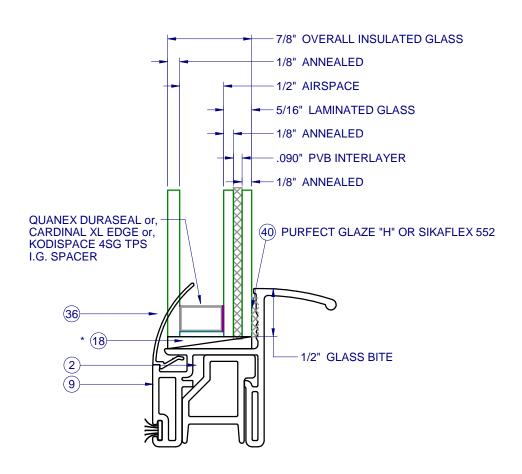
TABLE OF CONTENTS

INSTALLATION DETAILS....

FRAME TYPE	MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
FLANGE	35-3/4" x 70-3/4"	+/- 60 PSF	LARGE MISSILE IMPACT
FIN	30-3/4 X / U-3/4	+/- 55 PSF	LARGE MISSILE IMPACT

FL# 17339





SASH LITE

* SETTING BLOCKS PER FBC 2411.3.3.1

FL# 17339

CUSTOMO WINDOW SYSTEMS 1900 SW 44TH AVE. OCALA, FLORIDA 34474

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8100 PVC SINGLE HUNG IMPACT

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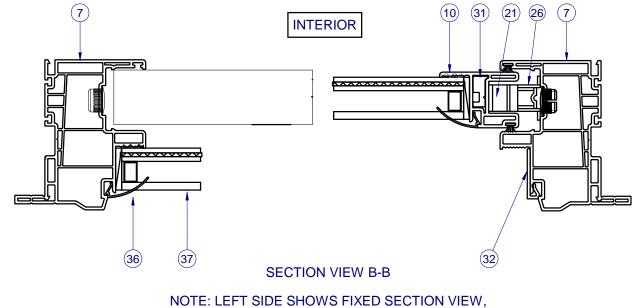
1/21/2022

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

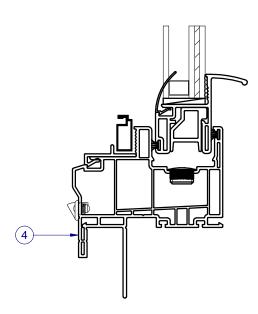
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GLAZING DETAILS

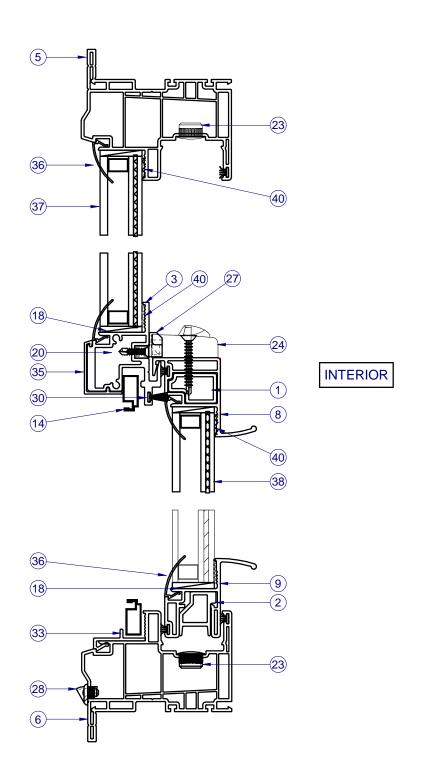
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1:1	2 OF 6











SECTION VIEW A-A



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

8100 PVC **SINGLE HUNG IMPACT**

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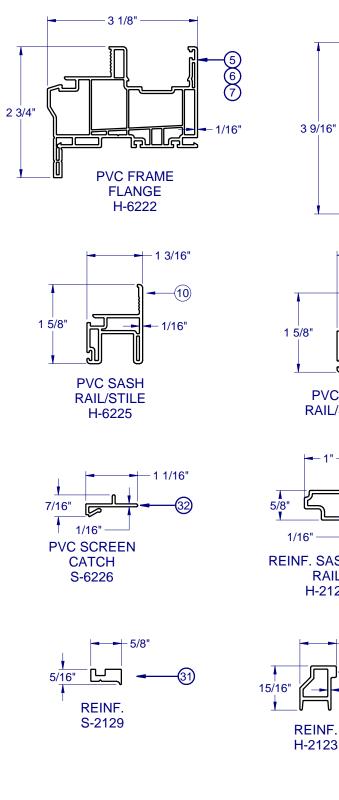
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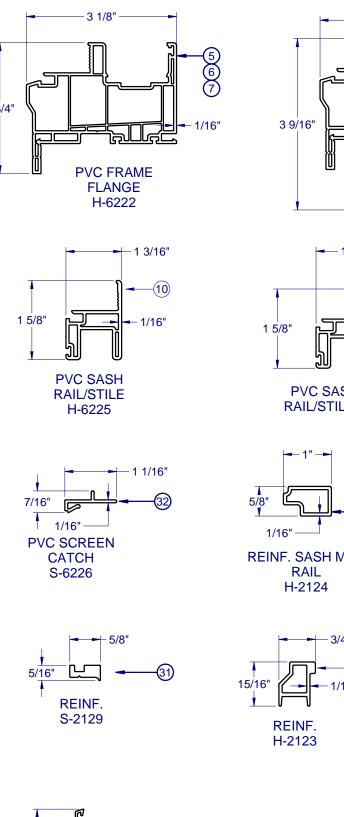
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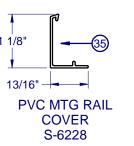
SECTION VIEWS

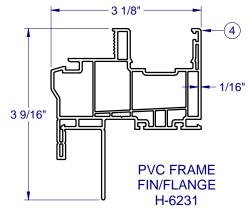
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SCALE:	SHEET	
1:2	3 OF 6	

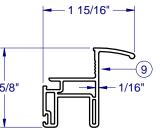
ITEM# PART#		DESCRIPTION	MATERIAL	
1	H-2124	Reinforcement for STR	ALUMINUM	
2	H-2123	Reinforcement for SBR	ALUMINUM	
3	H-2121	Alum Fixed Meet. Rail	ALUMINUM	
4	H-6231	Main Frame, Fin, Single Hung	PVC	
5	H-6222	Frame Head, Flg, Single Hung	PVC	
6	H-6222	Frame Sill, Flg, Single Hung	PVC	
7	H-6222	Frame Jamb, Flg, Single Hung	PVC	
8	H-6224	Sash Top Rail	PVC	
9	H-6223	Sash Bottom Rail	PVC	
10	H-6225	Sash Side Rail	PVC	
11	P-3029	Screen Pull tab	STEEL	
12	P-3033	Screen Spring	STEEL	
14	P-3218	Screen Frame	ALUMINUM	
15	P-3228	Spline	MNYL FOAM	
16	P-3321	Screen Corner Key	NYLON	
17	P-3342	Seam Sealer		
18	P-5615	Setting Block, 1/8" X 1" X 2"	RUBBER	
19	P-3429	Wstp., 0.270 x 0.187 back FinSeal	NYLON	
20	P-3539	#8 x 3/4" Ph PH TEK	STEEL	
21	P-3541	#8 x 3/8 Pan Phil Tek	STEEL	
22	P-3581	Screen Cloth	VINYL	
23	P-5588	Hole Plug, 1/2"	NYLON	
24		Lock, Impact		
25		#8 x 1 1/4" Ph Fh TEK, Wht.	STEEL	
26	P-4056	Sash Cam	NYLON	
27	P-4069	Keeper, Impact	ZAMAC	
28		Weep Housing & Flap Assm	PVC	
29	P-4638	#8 x 2 1/2 Phil Truss SMS	STEEL	
30	P-4959	Wstp., 0.420 x 0.187 back FinSeal	NYLON	
31		Reinforcement for SSR	ALUMINUM	
32	S-6226	Screen Support	PVC	
33		Screen Adaptor	PVC	
34		Sash Stop	PVC	
35		Fixed Rail Cover	PVC	
36	S-6237	Glazing Bead	PVC	
37	FIXED SEE SHEET2		GLASS	
38	SASH SEE SHEET2 GLAS		GLASS	
39	9 Block & Tackle Balance STEE		STEEL	
40		Purfect Glaze "H" or Sikaflex 552	SILICONE	
41		#10 x 2" Pan Phil sms	STEEL	



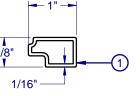




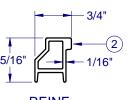


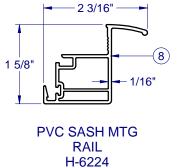


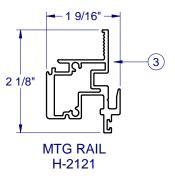


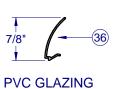


REINF. SASH MTG



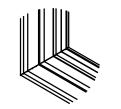




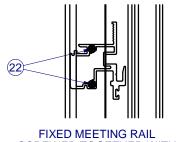




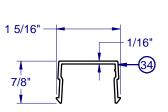
FRAME CORNER CONSTRUCTION



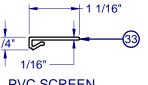
CORNER WELD (ALL SIDES) 1:8



SCREWED TOGETHER WITH OUTERFRAME



SASH STOP - S-6025



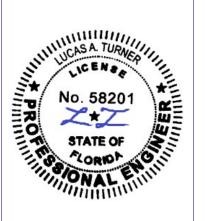
PVC SCREEN SUPPORT S-6227

CUSTOM* WINDOW SYSTEMS

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

8100 PVC **SINGLE HUNG IMPACT**

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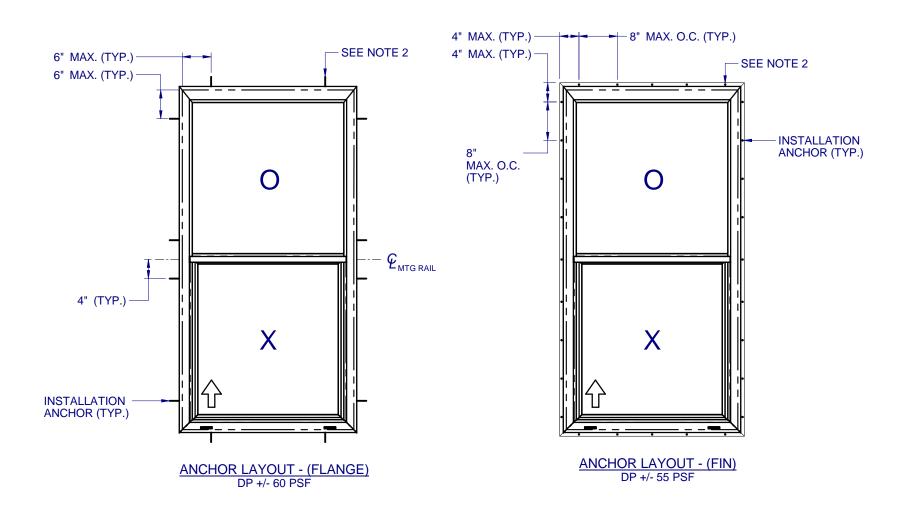
SHEET DESCRIPTION:

BOM AND EXTRUSIONS

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EMK	09/18/14
DWG #:	REV.:
CWS-957	Е
SCALE:	SHEET
1:2	4 OF 6

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

FL# 17339



NOTES:

- 1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. 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 6.
- 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 6.
- 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 TABLE1, SHEET 6. 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)

FL# 17339



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8100 PVC SINGLE HUNG IMPACT

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SHEET DESCRIPTION:

ANCHOR SCHEDULE AND NOTES

DRAWN BY:	DATE:
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EMK	09/18/14
DWG #:	REV.:
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SCALE:	SHEET
1:20	5 OF 6

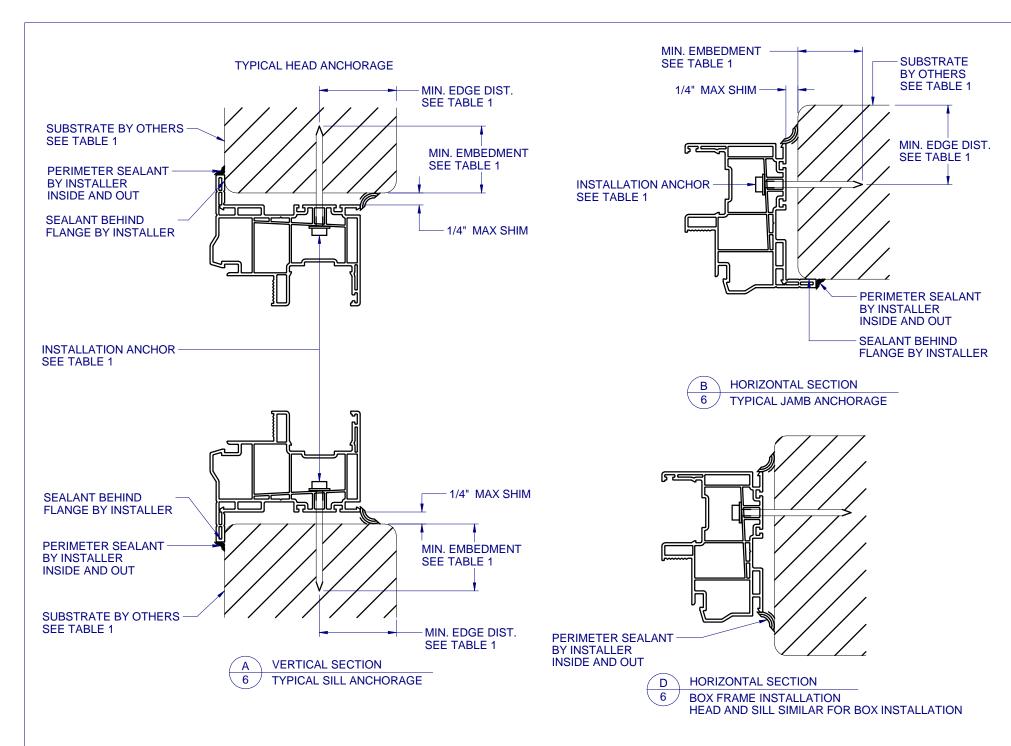
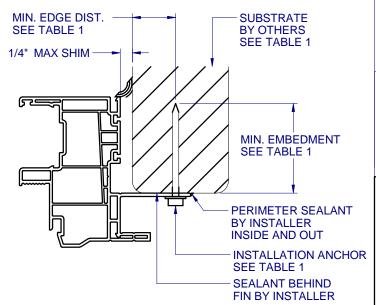
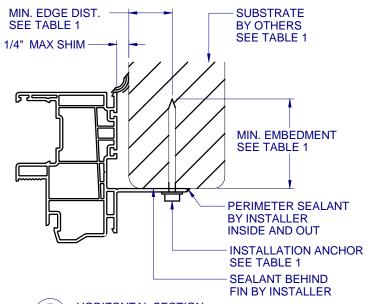


TABLE 1: APPROVED INSTALLATION FASTENERS				
FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
FLANGE	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-1/4"	2-1/2"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR ELCO 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"



C HORIZONTAL SECTION

6 TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN INSTALLATION



HEAD AND SILL SIMILAR FOR FIN INSTALLATION

E HORIZONTAL SECTION

6 TYPICAL FIN ANCHORAGE

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.

CUSTOM VINDOW SYSTEMS

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SHEET DESCRIPTION:

INSTALLATION DETAILS

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DWG #:	REV.:
CWS-957	E
SCALE:	SHEET
1:2	6 OF 6

FL# 17339