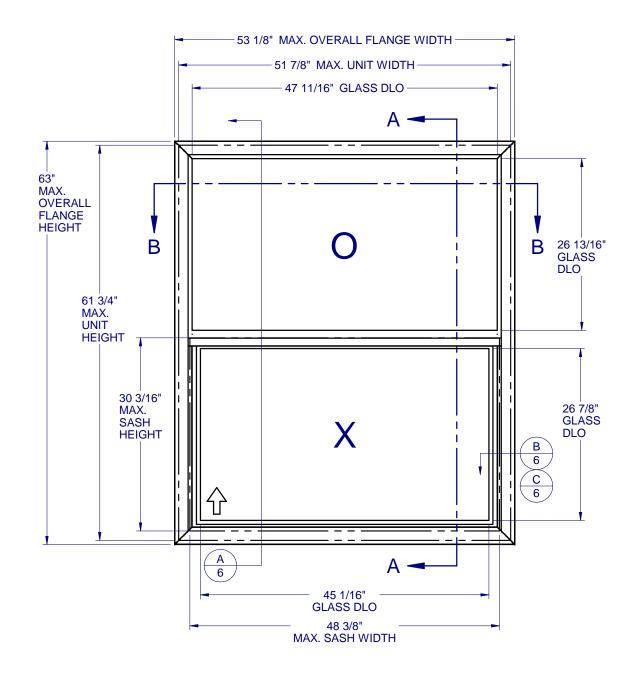
SINGLE HUNG - LARGE MISSILE IMPACT



GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
- 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 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. EXTERNAL WEEP SLOT = 1/4" x 1-1/4" LOCATED 4" FROM BOTH ENDS.

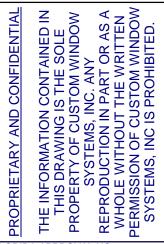
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MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
51-7/8" x 61-3/4"	+/- 70 PSF	LARGE MISSILE IMPACT



8100 PVC **SINGLE HUNG IMPACT**



FLORIDA APPROVAL NO .:

16177

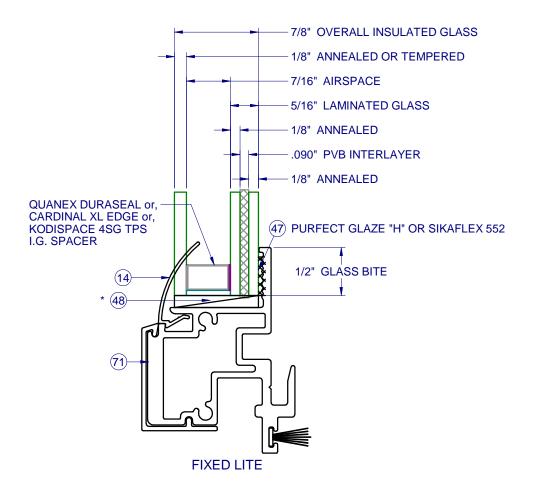


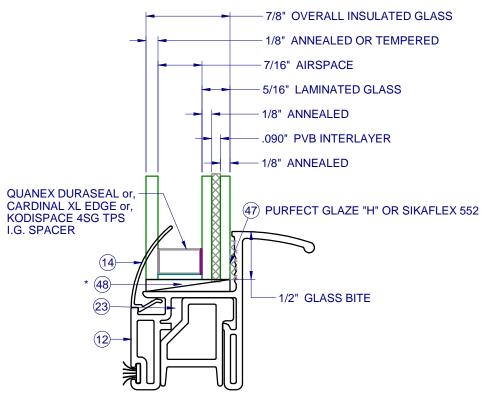
9/13/2023

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	8/22/2023
DWG #:	REV.:
CWS-812	F
SCALE:	SHEET
1:15	1 OF 6





SASH LITE



* SETTING BLOCKS PER FBC 2411.3.3.1

SCALE:

1:1

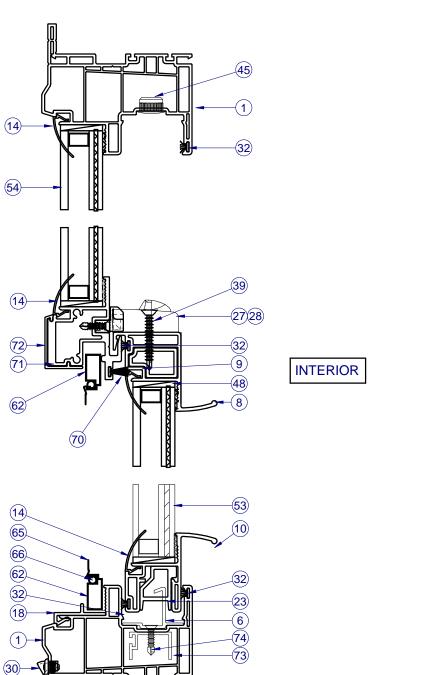
SHEET

2 OF 6

INTERIOR

53

(12)(74)(13) (32) (32) (24)



(27)

(45)

(32)

NOTE: LEFT SIDE SHOWS FIXED SECTION VIEW, RIGHT SIDE SHOWS SASH SECTION VIEW.

SECTION A-A

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NOTE: ITEMS NOT SHOWN FOR CLARITY: 20, 25-26, 36-37, 44, 51-52, 55-56, 64, 67-68

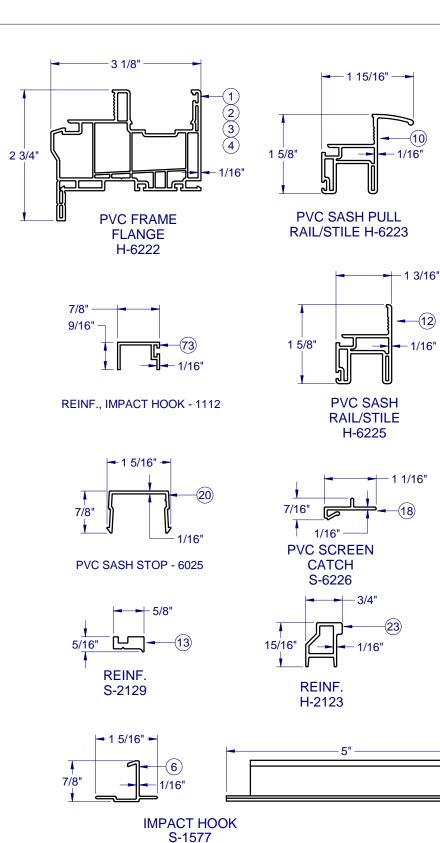




8100 PVC SINGLE HUNG IMPACT



	PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL	
1	H-6222	Main Frame, SH, w/Flg., PVC	Vinyl	
6	S-1577	Impact Hook	Alum	
8	H-6224	Sash Meet. Rail, PVC	Vinyl	
9	H-2124	Reinf. Sash Meet. Rail	Alum	
10	H-6223	Sash Bottom Rail, PVC	Vinyl	
12	H-6225	Sash Side/Top/Bot. Rail	Vinyl	
13	S-2129	Reinf. S.B.R./S.S.R		
14	S-6237	Glz. Bd., 7/8"	Vinyl	
18	S-6226	Scrn. Adapt., w/Nib, PVC, Horiz.	Vinyl	
19	S-6227	Scrn. Adapt., PVC, Vert.	Vinyl	
20	S-6025	Sash Stop / Filler, PVC, Vert.	Vinyl	
23	H-2123	Reinforcement, SBR	Alum	
24		SASH BALANCE		
25	P-4056	SASH CAM FOR PVC WINDOW	Plastic	
26	P-3295	TAKE OUT CLIP	SS	
27	P-3783	Lock, Impact, PVC		
28	P-4069	Keeper, Impact, PVC	Zamac	
30	P-4479	WEEP HOLE COVER	Plastic	
32	P-3305	Wstp., 0.270 x .187 High Density		
37	P-4638	#8 x 2-1/2 PH Mod. Truss, Type A, TEK 2	Steel	
39	P-4051W	#8 x 1.250 Ph FH TEK, Wht.	Steel	
40	P-3539	#8 x 3/4" Phillips Square SMS	Steel	
44	P-3342	Seam Sealer, SM-5504		
45	P-5588	Cap Plug, 1/2" Hole	Nylon	
47		Sikaflex 552 or Purfect Glaze "H"		
48	P-5615	Set. Blk., 85 Dur., 1/8" x 1" x 2" Lg.	Rubber	
53	Sash	SEE SHEET 2		
54	Fixed	SEE SHEET 2		
56		Spacer (SEE SHEET 2)		
62	P-3218	Screen Frame	Alum	
64	P-4754	SCREEN CORNER KEY	Plastic	
65	P-4771	36"-BetterVue Insect Screen, 18x16	Fiberglass	
66	P-5576	Screen Spline, .125" Black PE Ribbed	Vinyl	
67	P-4755	Screen Corner Key W/ Safety Pull Tab	Alum	
68	P-3195	SPRING, NO HOLE TENSION C-8400	SS	
70	P-4959	Wstp., .420 x .187 High Density		
71	H-2121	Alum. Fixed Rail	Alum	
72	S-6228	Cover, Fixed Rail	Vinyl	
73	S-1112	Reinforcement, Impact Hook	Alum	
74	P-3541	#8 x 1/2", Quadrex PH, TEK	Steel	

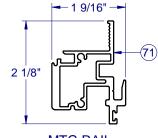


1 5/8" PVC SASH MTG RAIL H-6224

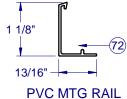
-23/16"

(8)

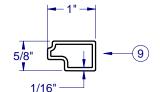
1/16"



MTG RAIL H-2121



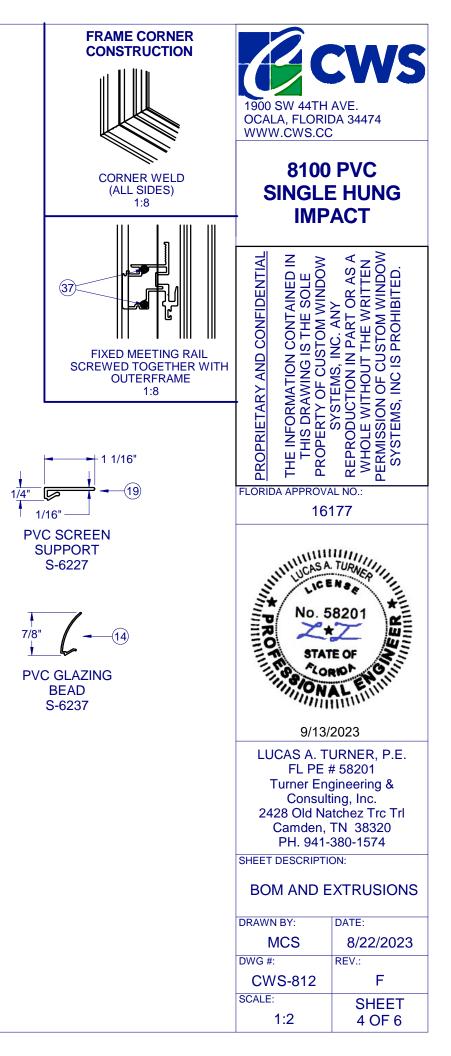
COVER S-6228

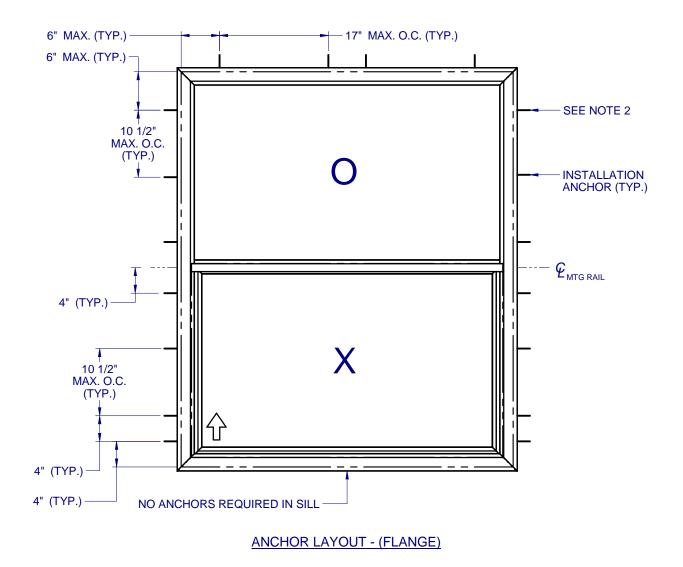


REINF. SASH MTG RAIL H-2124



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





NOTES:

- 1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. NO ANCHORS REQUIRED IN SILL.
- 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)



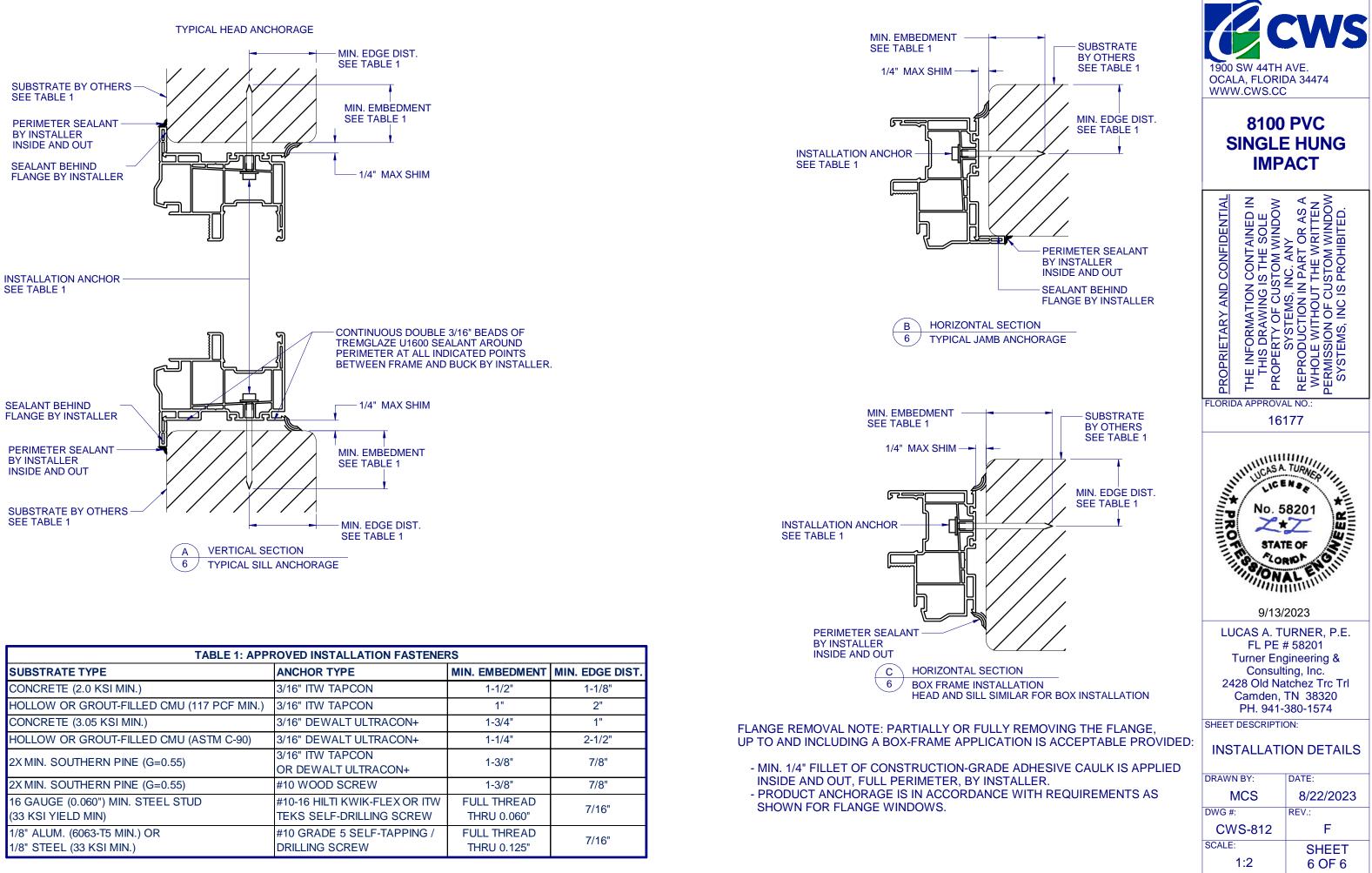


TABLE 1: APP	ROVED INSTALLATION FASTENE	RS	
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
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"
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"