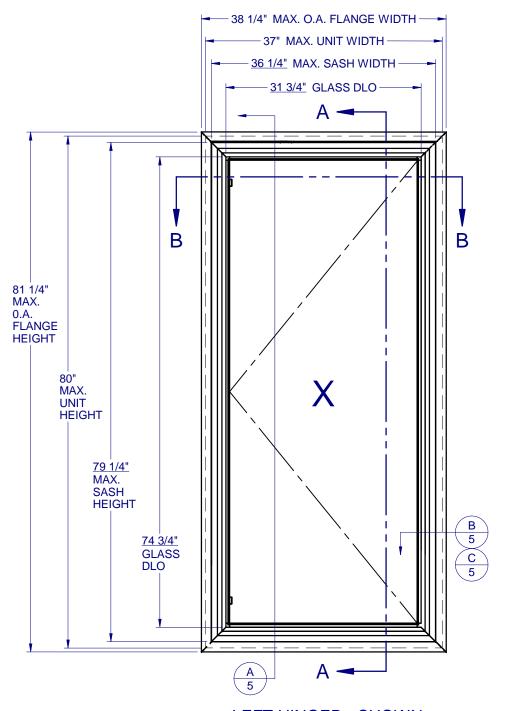
CASEMENT - LARGE MISSILE IMPACT



LEFT HINGED - SHOWN (CAR 138-538/138-1302) MAXIMUM ALLOWABLE DESIGN PRESSURE: +70/-70 PSF

RIGHT HINGED - OPPOSITE

TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS	1
SECTION VIEWS & GLAZING	2
EXTRUSIONS & B.O.M	3
ANCHOR SCHEDULE & NOTES	4
INSTALLATION DETAILS	5

GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND 2018 INTERNATIONAL RESIDENTIAL CODE (IRC).
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: ALL WINDOWS ARE OPEN TO OUTSIDE LEFT OR RIGHT.
- 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 AND VENTS FULLY WELDED.
- 7. SERIES/MODEL DESIGNATION CA-8400.
- 8. THE DESIGNATION X STANDS FOR THE FOLLOWING: X = OPERABLE SASH
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.



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

8400 PVC CASEMENT IMPACT

		01/11/23	02/06/20	3/29/17	BY: DATE:	
		MS		JML	BY:	
		C REMOVED SYSTEM NUMBERS MS	BC/IRC REF. 2018 UPDATE JLD	REVISED TO TDI REQUEST JML 3/29/17	NO.: DESCRIPTION:	REVISIONS
		ပ	В	٧	NO.:	



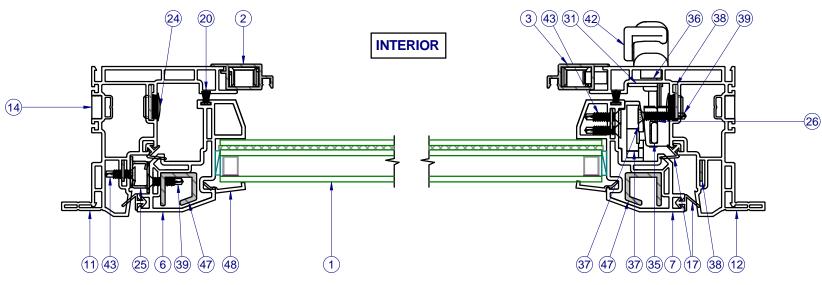
2/28/2023

LUCAS A. TURNER, P.E.
TX PE # 115094
TBPE REG. #FL-18075
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320
PH. 941-380-1574
SHEET DESCRIPTION:

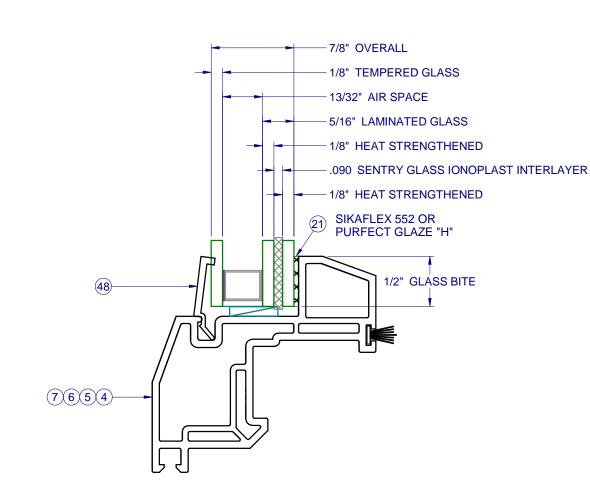
SHEET DESCRIPTION

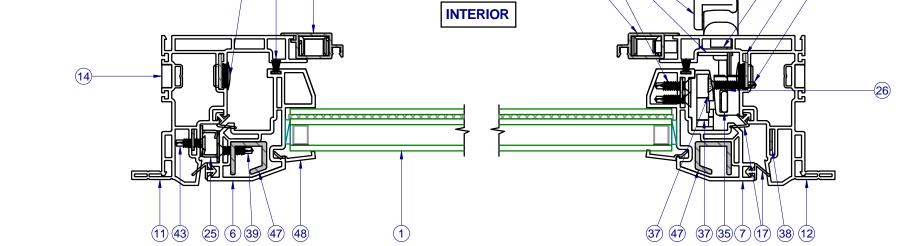
GENERAL NOTES AND ELEVATIONS

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-999	С
SCALE:	SHEET
1:15	1 OF 5



SECTION VIEW B-B





1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC 8400 PVC

CASEMENT IMPACT

WINDOW SYSTEMS

		01/11/23	05/06/20	3/29/17	DATE:	
		MS	JLD	JML	BY:	
		REMOVED SYSTEM NUMBERS MS	BC/IRC REF. 2018 UPDATE JLD	REVISED TO TDI REQUEST JML	NO.: DESCRIPTION:	REVISIONS
		၁	В	A	N O N	



2/28/2023

LUCAS A. TURNER, P.E. TX PE # 115094 TBPE REG. #FL-18075 2428 OLD NATCHEZ TRC TRL CAMDEN, TN 38320 PH. 941-380-1574 SHEET DESCRIPTION:

SECTION VIEWS AND GLAZING DETAIL

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-999	С
SCALE:	SHEET
1:2	2 OF 5

SECTION VIEW A-A

43

9 (38) 46(45)

38

19

30

47

395

32

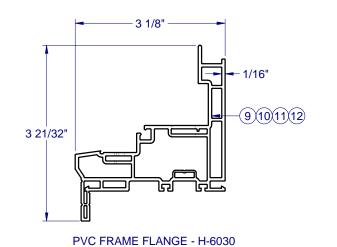
38

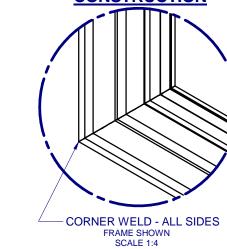
(14)

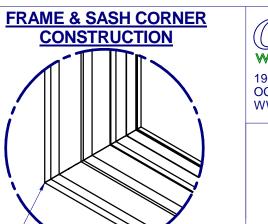
INTERIOR

-(41)

ITEM	PART#	DESCRIPTION	VENDOR	MATERIAL
1	GLASS	SEE SHEET 2		
2	H-1592	SCREEN RAIL, SIDE/BTM.	KEYMARK	ALUM
3	H-1593	SCREEN RAIL, TOP/SIDE	KEYMARK	ALUM
4	H-6008	SASH, CASEMENT, TOP RAIL	MIKRON	PVC
5	H-6008	SASH, CASEMENT, BTM. RAIL	MIKRON	PVC
6	H-6008	SASH, CASEMENT, SIDE RAIL, HINGE	MIKRON	PVC
7	H-6008	SASH, CASEMENT, SIDE RAIL, LOCK	MIKRON	PVC
9		FRAME, CASEMENT, MAIN, HEAD	MIKRON	PVC
10	H-6030	FRAME, CASEMENT, MAIN, SILL	MIKRON	PVC
11	H-6030	FRAME, CASEMENT, MAIN, L. JAMB	MIKRON	PVC
12	H-6030	FRAME, CASEMENT, MAIN, R. JAMB	MIKRON	PVC
13	P-3029	SCREEN LIFT-OUT	SUMMIT	
14	P-3113	SCREW SUPPORTS	TEAM PLASTICS	RUBBER
15	P-3195	SCREEN SPRING, NO HOLE TENSION		
16	P-3197	SCREEN CORNER KEY	M&M	NYLON
17	P-3217	WSTP., WHITE LEAF SEAL, FRAME	AMESBURY	RUBBER
18	P-3228	SCREEN SPLINE, 0.155 DIA., BLACK	DAPA	
19	P-3352	SET. BLK., 85 DUR., 1/8" X 5/8" X 2" LG.	FRANK LOWE	RUBBER
20	P-3429	WSTP., .270" x .187" BACK, ULTRA FIN, BLACK, SASH	ULTRAFAB	
21	P-3438	HOT MELT, TRU SEAL, "H" OR SIKAFLEX 552	TRUSEAL / SIKA	SILICONE
22	P-3581	SCREEN CLOTH, 18 x 16 FIBERLGLASS	PHIFER	
23	P-3587	#8 X 1" PH FH TEK 2, ZINC, SCREW	FASTENAL	SS
24	P-3752	CAP PLUG, 1/2" HOLE	M&M	NYLON
25	P-3940	SNUBBER, SS, PVC		SS
26	P-4003	TIE BAR GUIDE, ROTO. HDWE.	ROTO	SS
27	P-4004	#8-32 X 1/2" PH PH, MS, SS (ROTO HDWE. LOCK)	FASTENAL	SS
28	P-4005	SUPPORT PLATE, LOCK, SS, ROTO HDWE. (Use w/ P-4006)	ROTO	NYLON
29	P-4006	LOCK, MULTI-POINT, ROTO HDWE., WHITE	ROTO	ZINC
30	P-4009	TRACK & SLIDER ASSM., ROTO OPER., ROTO HDWE., (13")	ROTO	SS
31	P-4011	STUD BRKT., ROTO OPER., R.H., ROTO HDWE.	ROTO	SS
32	P-4012	SHIM, ROTO OPERATOR, ROTO HDWE. (4.8mm)	ROTO	NYLON
33	P-4020	SUPPORT WASHER, ROTO OPER, ROTO HDWE. (SS)	ROTO	SS
34	P-4024	GASKET, ROTO OPER., ROTO HDWE., 1/16"	HO PRODUCTS	CLIP FOAM
35	P-4038	TIE-BARS, ROTO HDWE. 1-5 LOCKPOINTS, SS (BY OA HGT.)	ROTO	SS
36	P-4042	GASKET, FOR MULTI-POINT LOCK (P-4006), ROTO HDWE.	HO PRODUCTS	CLIP FOAM
37	P-4043	STRIKE, MULTI-POINT	M&M	NYLON
38	P-4050	REINF. COIL-ALUMINUM, 5052-H32 (.050" x .437") HD	PRECISION STEEL	ALUM
39	P-4146	#8 X 3/4" PHIL FLAT TEK	FASTENAL	SS
40	P-4361	SPACER, DURASEAL	TRUSEAL	
41	P-4502	ROTO. OPERATORS (FOR LEFT/RIGHT OPEN CASEMENT)	ROTO	SS
42	P-4503	ROTO OPER., DUAL ARM, R.H., ROTO HDWE. (X-Drive SS)	ROTO	SS
43	P-4641	#8 X 5/8" PHIL FLAT TEK	FASTENAL	SS
44	P-4658	SASH LIMITER, CASEMENT, SS	TRUTH HARDWARE	SS
45	P-5040/1	HINGES (LEFT/RIGHT FOR CASEMENT)	ROTO	SS
46	P-5046/7	TRACK, HINGE	ROTO	SS
47	S-1505	REINF. CASE.	KEYMARK	ALUM
48	S-6064	GLAZING BEAD	MIKRON	PVC



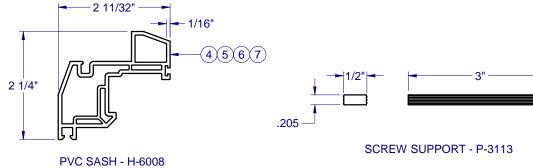


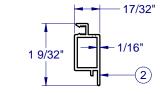




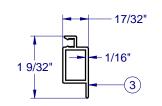
8400 PVC **CASEMENT IMPACT**

_							
			01/11/23	05/06/20	3/29/17	DATE:	
			MS	J.	JML	BY:	
			REMOVED SYSTEM NUMBERS MS	BC/IRC REF. 2018 UPDATE JLD	A REVISED TO TDI REQUEST JML 3/29/17	NO.: DESCRIPTION:	REVISIONS
			ပ	മ	⋖	N 0	

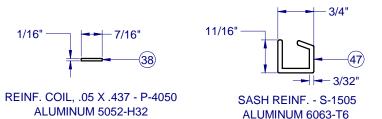


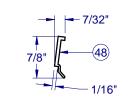






SCREEN RAIL, TOP/SIDE - H-1593 ALUMINUM 6063-T6





PVC GLAZING BEAD - S-6064

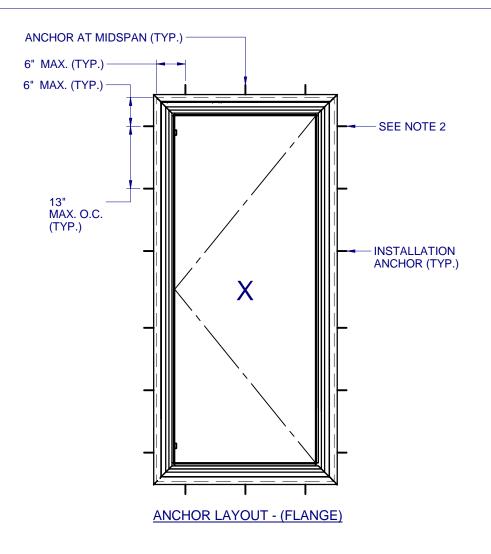
LUCAS A TURNER 115094	100000
CENSED STONAL ENGINEER	

2/28/2023

LUCAS A. TURNER, P.E. TX PE # 115094 TBPE REG. #FL-18075 2428 OLD NATCHEZ TRC TRL CAMDEN, TN 38320 PH. 941-380-1574 SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-999	С
SCALE:	SHEET
2:1	3 OF 5



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 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 TABLE1, 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)



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

8400 PVC CASEMENT IMPACT

		01/11/23	05/06/20	3/29/17	DATE:	
		MS	JED	JML	BY:	
		C REMOVED SYSTEM NUMBERS MS	B IBC/IRC REF. 2018 UPDATE JLD	A REVISED TO TDI REQUEST JML 3/29/17	NO.: DESCRIPTION:	REVISIONS



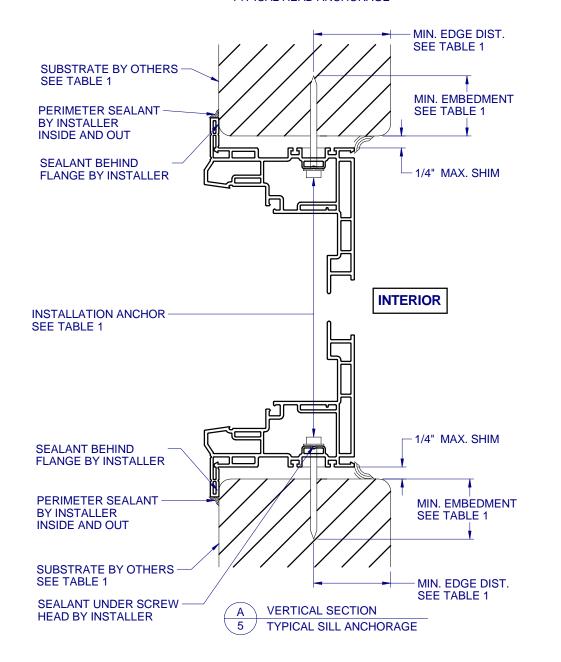
LUCAS A. TURNER, P.E.
TX PE # 115094
TBPE REG. #FL-18075
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320

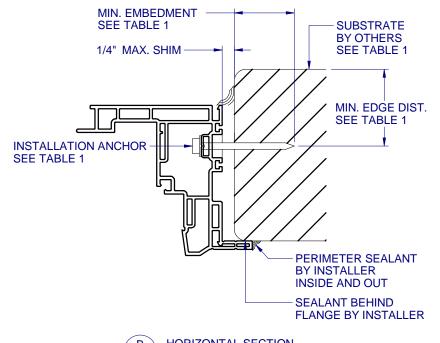
PH. 941-380-1574
SHEET DESCRIPTION:

ANCHOR SCHEDULE AND NOTES

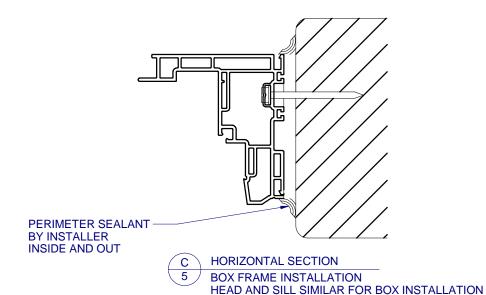
DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-999	С
SCALE:	SHEET
1:20	4 OF 5

TYPICAL HEAD ANCHORAGE





B HORIZONTAL SECTION
5 TYPICAL JAMB 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.



8400 PVC CASEMENT IMPACT

		01/11/23	02/06/20	3/29/17	DATE:		
		MS	J.	JML	BY:		
		C REMOVED SYSTEM NUMBERS MS	BC/IRC REF. 2018 UPDATE JLD	REVISED TO TDI REQUEST JML 3/29/17	NO.: DESCRIPTION:	REVISIONS	
		ပ	ш	⋖	9		



LUCAS A. TURNER, P.E.
TX PE # 115094
TBPE REG. #FL-18075
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320

PH. 941-380-1574 SHEET DESCRIPTION:

INSTALLATION DETAILS

	DRAWN BY:	DATE:
):	EMK	11/12/15
	DWG #:	REV.:
	TDI-999	С
	SCALE:	SHEET
	1:2	5 OF 5

