

SHWINCO ARCHITECTURAL PRODUCTS

6500 SECURITY SERIES VINYL CASEMENT WINDOW

INSTALLATION ANCHORAGE DETAILS

NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2.

2X WOOD FRAMING, 1X OR 2X WOOD BUCK, METAL FRAMING AND CONCRETE/MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE/MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3.

1X BUCK OVER CONCRETE/MASONRY IS OPTIONAL. WHEN 1X BUCK IS USED, INSTALLATION ANCHORS WILL PASS THROUGH WINDOW FRAME AND 1X BUCK INTO CONCRETE/MASONRY SUBSTRATE. WHEN USED, 1X BUCKS SHALL BE DESIGNED AND ANCHORED TO PROPERLY TO TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4.

THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO THE FOLLOWING.
- 4.2.

SEE TEST REPORT NO. NCTL-210-4214-2 BY NCTL FOR ASTM E2395-18.
- 4.3.

SEE TEST REPORT NO. NCTL-210-4199-3A BY NCTL FOR AAMA/WDMA/CSA 101/I.S.2/A440-11 & 17.
- 4.4.

SEE TEST REPORT NO. J3468.01-550-18 BY INTERTEK FOR AAMA/WDMA/CSA 101/I.S.2/A440-11 & 17 TESTING FOR GATEWAY SIZES.
5.

MATERIAL:
- 5.1.

FRAME: EXTRUDED RIGID PVC BY VISION EXTRUSIONS LIMITED PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
- 5.2.

REINFORCEMENT:
- 5.2.1.

PART NO. T-13186, LOCATED - FRAME, ALL MEMBERS UNDER HINGE TRACK ALUMINUM
- 5.2.2.

PART NO. T-13187, LOCATED - FRAME, ALL MEMBERS UNDER OPERATOR ALUMINUM
- 5.2.3.

PART NO. T-13185, LOCATED - VENT, ALL MEMBERS IN HOLLOW ALUMINUM
- 5.2.4.

PART NO. T-53184, LOCATED - VENT, ALL MEMBERS IN HOLLOW ALUMINUM
- 5.3.

LAMINATE GLASS INTERLAYER: SAFLEX INTERLAYER BY EASTMAN CHEMICAL CO. (MA). PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
6.

GLAZING:
- 6.1.

GLAZING DETAIL AS TESTED: SEE GLAZING DETAIL 1 ON SHEET 3.
- 6.2.

ALL SETTING BLOCKS AND GASKET MATERIALS (IF APPLICABLE) SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER. GASKET MATERIALS SHALL BE EDPM WITH A MINIMUM 60 SHORE A DUROMETER.
- 6.3.

GLAZING SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.
- 6.4.

AS TESTED GLAZING MEETS ASTM E1300-12AE1 AND ASTM E1300-16 FOR THE DESIGN CONDITIONS SHOWN IN THIS PRODUCT APPROVAL DOCUMENT.
7.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS WHERE OPENING PROTECTION IS REQUIRED.
8.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9.

SUBSTRATE ANCHORING METHODS:
- 9.1.

FOR ANCHORING INTO CONCRETE/MASONRY USE 3/16" HEX HEAD (RECOMMENDED) OR 3/16" FLAT HEAD (ALLOWED) TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 1-1/8" MINIMUM EDGE DISTANCE AND 1" MINIMUM EMBEDMENT INTO MASONRY WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. 3-1/4" MINIMUM SPACING BETWEEN ADJACENT ANCHORS REQUIRED. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- 9.2.

FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 PAN HEAD (RECOMMENDED) OR #10 FLAT HEAD (ALLOWED) WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR-TO-ANCHOR SPACING OF 2" ON CENTER. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- 9.3.

FOR ANCHORING INTO METAL STRUCTURE USE #10 PAN OR HEX HEAD (RECOMMENDED) OR #10 FLAT HEAD (ALLOWED) SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 3/4" MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR-TO-ANCHOR SPACING OF 2" ON CENTER. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
10.

ALL FASTENERS TO BE CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING
11.

INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
- 11.1.

WOOD - MINIMUM SPECIFIC GRAVITY OF (G) 0.42 (NON-HVHZ)
- 11.2.

CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI
- 11.3.

MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT WITH DENSITY > 117 PCF
- 11.4.

METAL SUBSTRATE:
- 13.4.1.

STEEL 18GA (0.0428"), Fy = 33KSI / Fu = 45 KSI.
- 13.4.2.

ALUMINUM 6063-T5 0.048" THICK MINIMUM
14.

INTERIOR AND EXTERIOR FINISHES BY OTHERS. NOT SHOWN FOR CLARITY.
15.

PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED AND/OR SPECIFIED IN ACCORDANCE WITH ASTM E2112, FMA/AAMA 100-12, OTHER INDUSTRY ACCEPTED STANDARDS AND/OR AS RECOMMENDED BY THE MANUFACTURER. PERIMETER AND JOINT SEALANT METHODS SHOWN IN THIS DOCUMENT ARE FOR ILLUSTRATION ONLY AND ARE NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	NOTES
2	ELEVATION & ANCHOR LOCATION
3	VERTICAL INSTALLATION DETAILS & GLAZING DETAIL
4	HORIZONTAL INSTALLATION DETAILS
5	ALTERNATE FRAME INSTALLATION DETAILS
6	BILL OR MATERIALS

PROJECT #423-0103

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

TITLE: 6500 SECURITY SERIES VINYL CASEMENT WINDOW

DATE: 7/6/21

DRAWING NO: SHW0005

SHEET: 1 OF 6

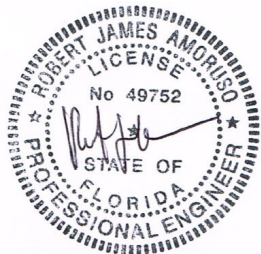
DRAWN BY: RJA

SCALE: N.T.S.

REV: A

PREPARED BY: 

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



Digitally signed
by Robert J
Amoruso
Date: 2023.11.21
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PTC Product Design Group, LLC
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Longwood, FL 32752-0775
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No. 25935



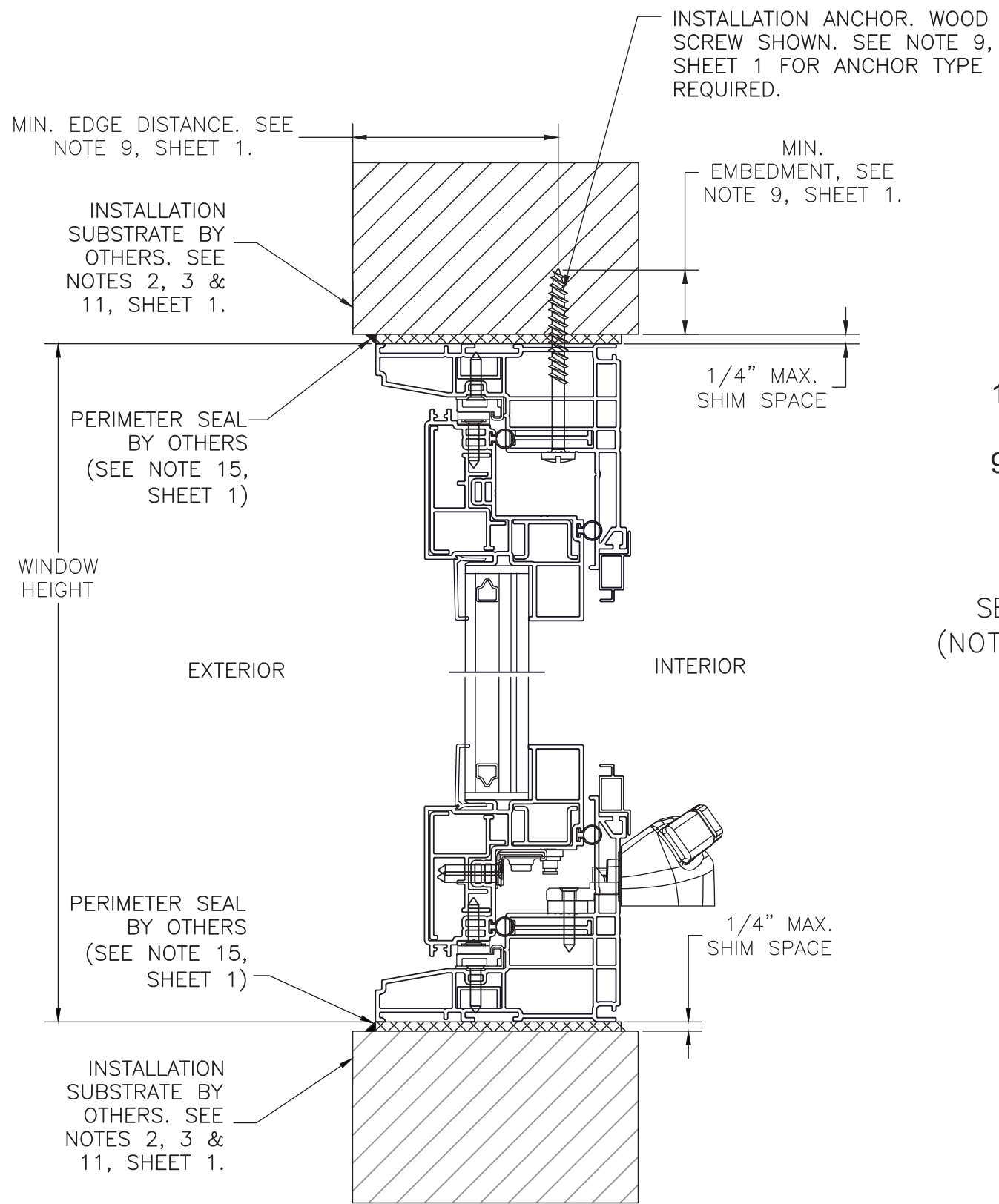
Technical drawing of a square window frame. The drawing shows a top-down view of the frame with a central opening. The frame is composed of multiple layers, including a thick outer frame and a thinner inner frame. The central opening is a square with a diagonal cross pattern. Dimensions are provided for the width and height of the frame and the opening. Labels A and B indicate specific dimensions. The drawing is oriented with the frame's width and height dimensions on the right side, and the opening's width and height dimensions on the left side.

Dimensions and Labels:

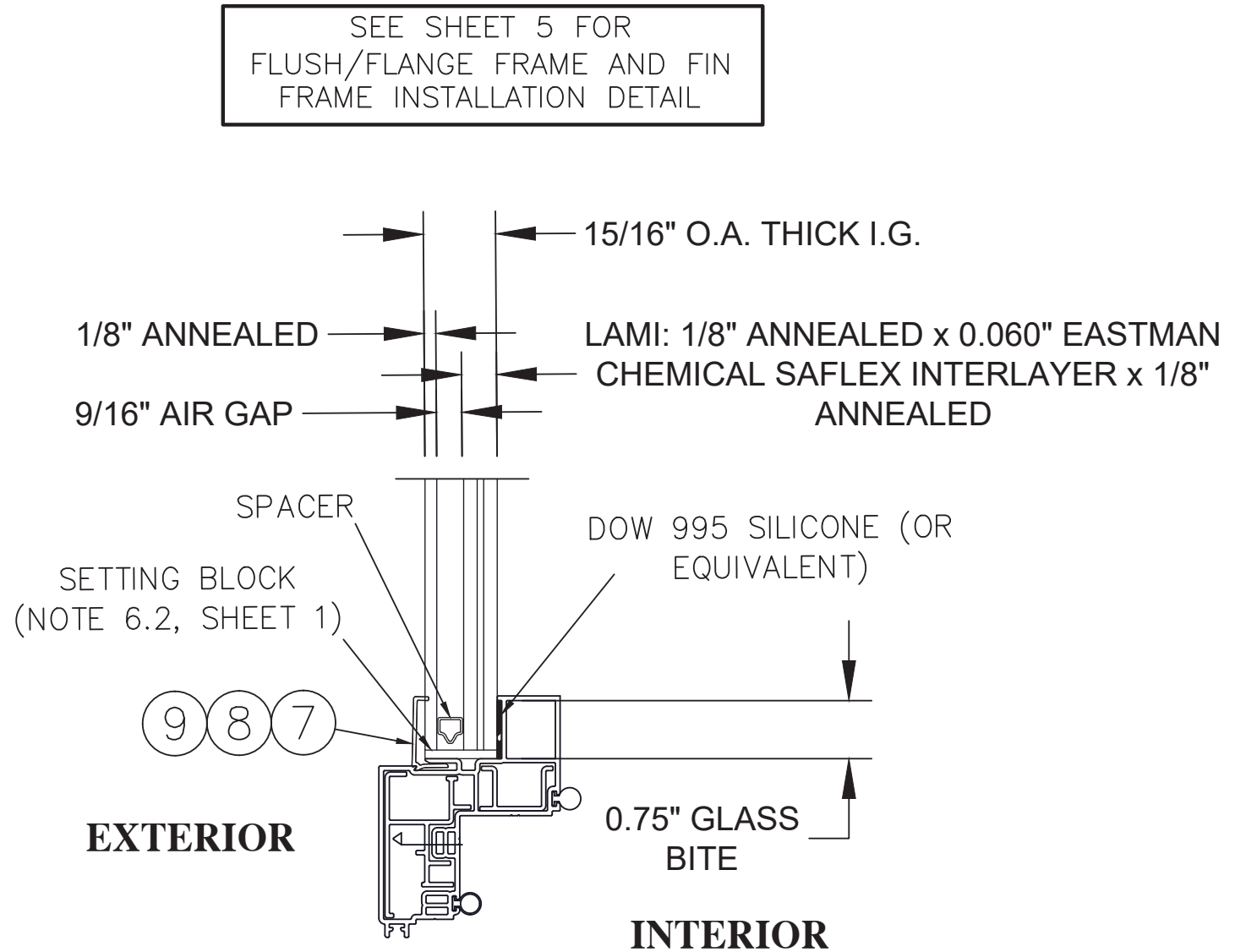
- Width Dimensions (Left Side):**
 - 28-1/4" MAX. D.L.O. WIDTH
 - 34-7/16" MAX. SASH WIDTH
 - 37" MAX. FRAME WIDTH
- Height Dimensions (Right Side):**
 - 67-1/4" MAX D.L.O. HEIGHT
 - 73-7/16" MAX SASH HEIGHT
 - 76" MAX FRAME HEIGHT
- Labels:**
 - A**: Points to the width of the frame.
 - B**: Points to the height of the frame.
 - B opp**: Points to the height of the opening.

PERFORMANCE RATING			
DESIGN PRESSURE (PSF)	OPENING PROTECTION IMPACT RATING	SECURITY RATING LEVELS	
+/-70	NONE	ASTM E2395-18	10 HAMMER STRIKES FROM EACH CORNER - PASSED
			IMPACTS 1 & 2 - PASSED
		ASTM F588-07, ANNEX A1	LEVEL 5/GRADE 40 - PASSED

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EQUAL LEG FRAME
VERTICAL CROSS SECTION A-A
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR METAL FRAME
APPROVED



GLAZING DETAIL 1
15/16" O.A. IGU
VENT SILL SHOWN
(ALL OTHER SECTIONS TYPICAL)
SEE GENERAL NOTE 6 ON SHEET 1.

PROJECT #423-0103

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

TITLE: 6500 SECURITY SERIES VINYL CASEMENT WINDOW
VERTICAL INSTALLATION DETAILS & GLAZING DETAIL

DRAWN BY: RJA

SCALE: N.T.S.

PREPARED BY:

DATE: 7/6/21

DRAWING NO: SHW0005

SHEET: 3 OF 6

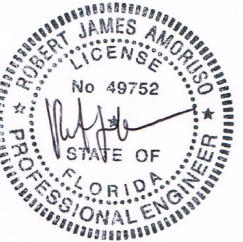
REV: A

DESCRIPTION

DATE

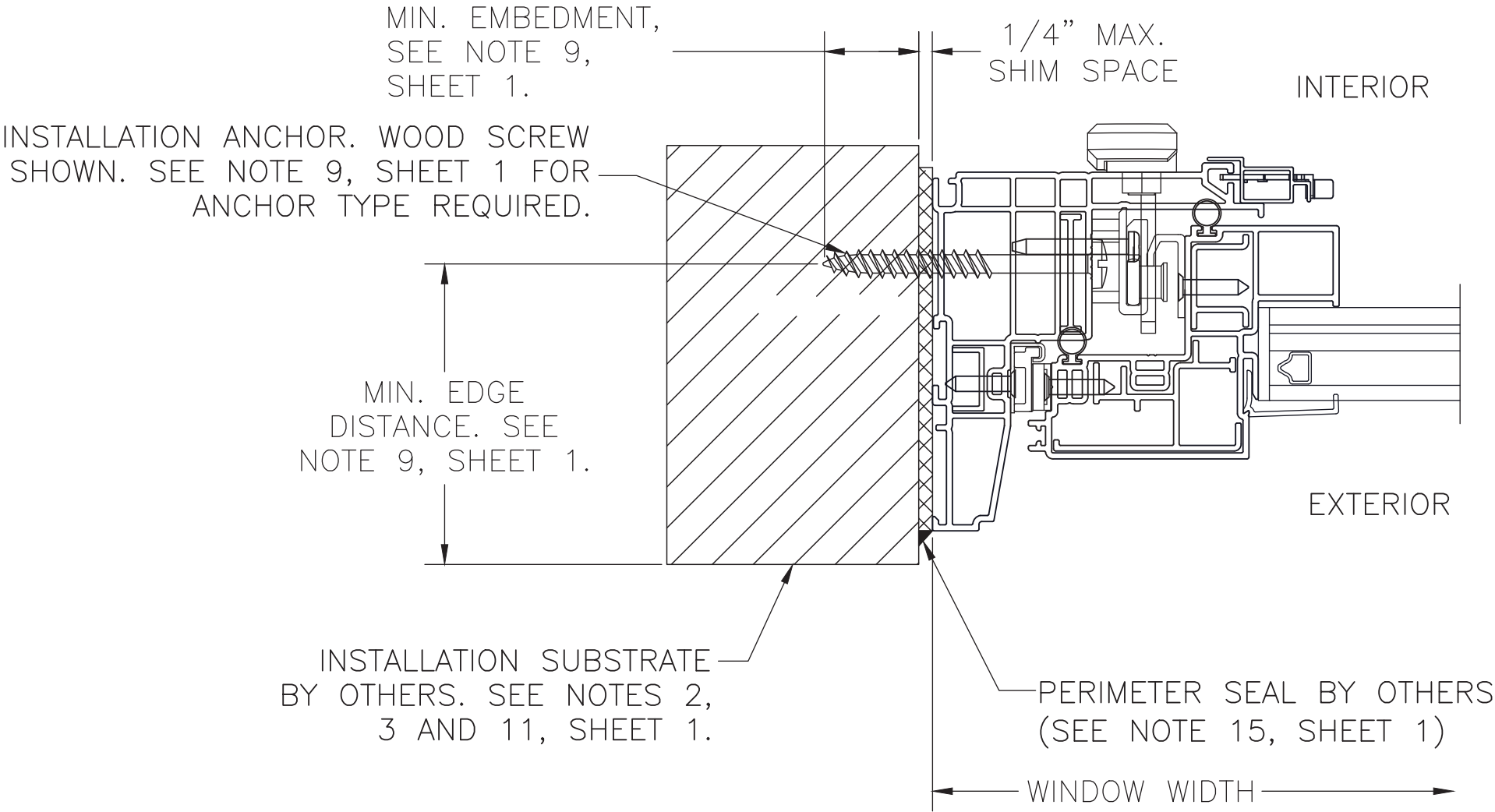
BY

Robert J. Amoruso, P.E.
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INSTALLATION SUBSTRATE
BY OTHERS. SEE NOTES 2,
3 AND 11, SHEET 1.

PERIMETER SEAL BY OTHERS
(SEE NOTE 15, SHEET 1)

WINDOW WIDTH

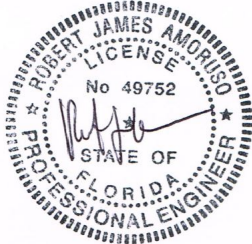
SEE SHEET 5 FOR
FLUSH/FLANGE FRAME AND FIN
FRAME INSTALLATION DETAIL

EQUAL LEG FRAME
HORIZONTAL (JAMB) CROSS SECTION B-B
WOOD FRAMING, 2X WOOD BUCK, CONCRETE/MASONRY
OR METAL FRAME APPROVED

PROJECT #423-0103					
				6/19/231	RJA
			UPDATE TO 8TH EDITION (2023) FBC	DATE	BY
		A	REV	DESCRIPTION	

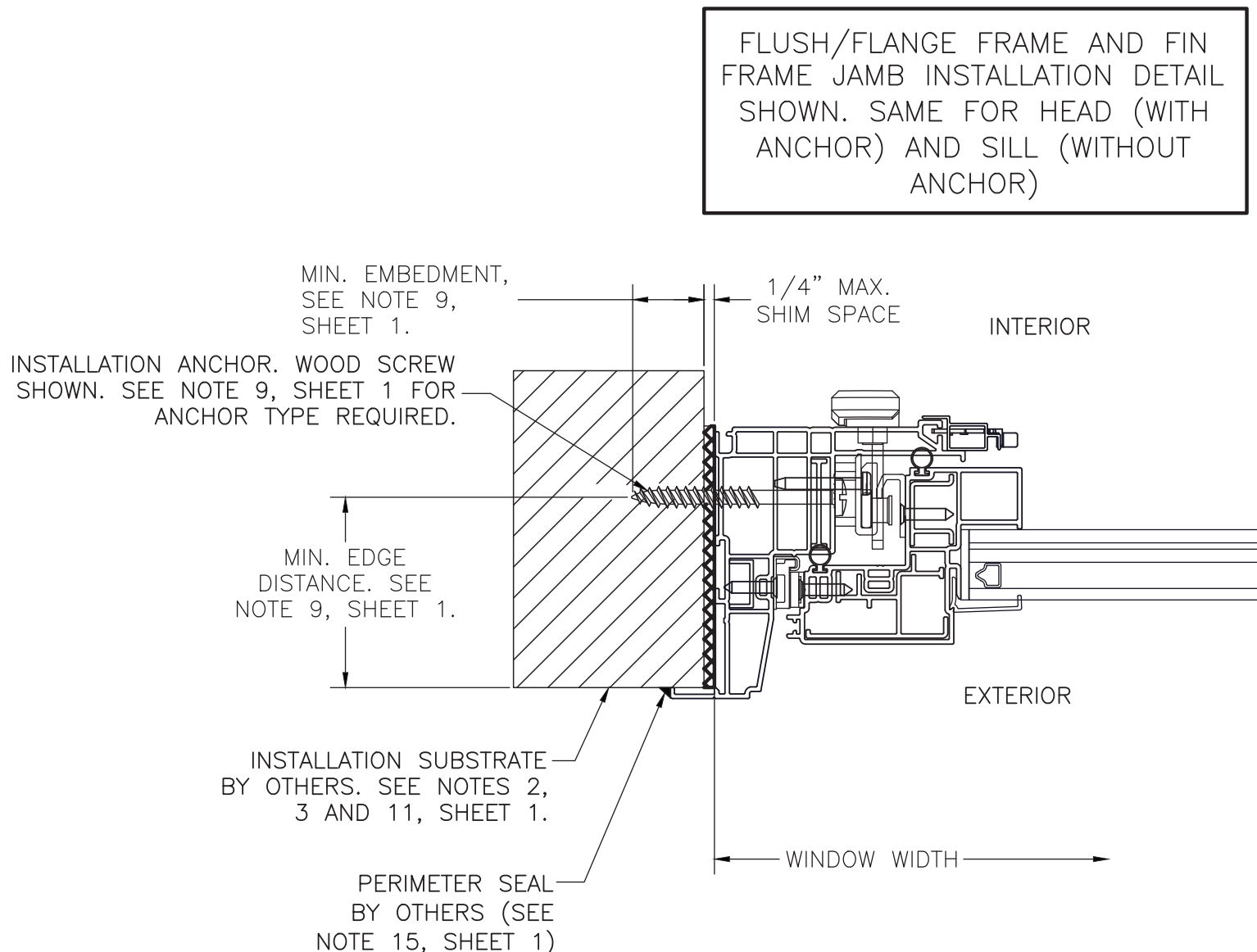
SHWINCO ARCHITECTURAL PRODUCTS, LLC 171 JET SERVICES WAY DOTHAN, AL 36303		DATE: 7/6/21		4 OF 6	
TITLE: 6500 SECURITY SERIES VINYL CASEMENT WINDOW HORIZONTAL INSTALLATION DETAILS		DRAWN BY: RJA	SCALE: N.T.S.	DRAWING NO: SHW0005	REV: A
PREPARED BY: PDC					

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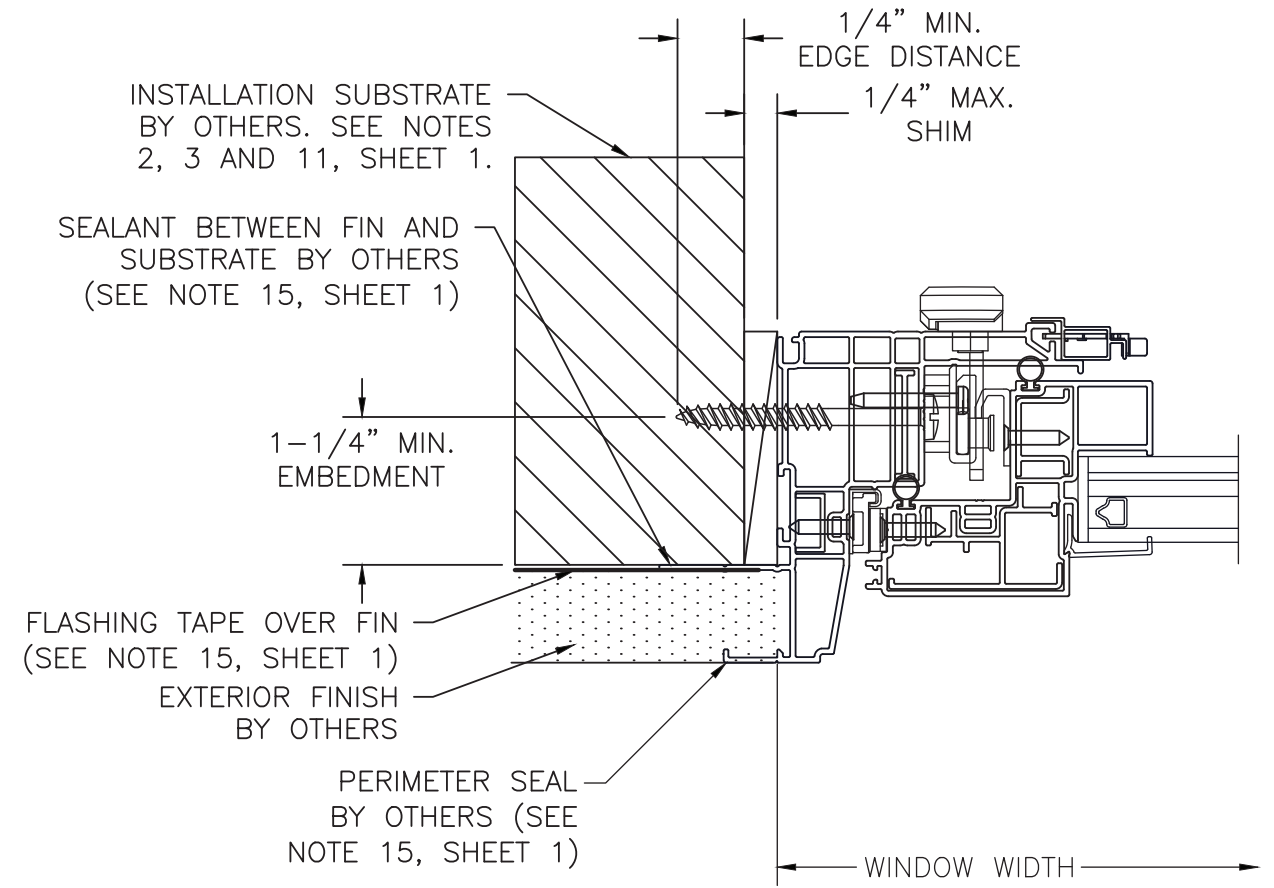


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FLUSH/FLANGE FRAME
HORIZONTAL (JAMB) CROSS SECTION B-B
SAME FOR HEAD (WITH ANCHOR) AND SILL (WITHOUT ANCHOR)
WOOD FRAMING, 2X WOOD BUCK, CONCRETE/MASONRY OR METAL FRAME APPROVED



FIN FRAME
HORIZONTAL (JAMB) CROSS SECTION B-B
SAME FOR HEAD (WITH ANCHOR) AND SILL (WITHOUT ANCHOR)
WOOD FRAMING, 2X WOOD BUCK, CONCRETE/MASONRY OR METAL FRAME APPROVED

PROJECT #423-0103						6/19/231 RJA		DATE		BY	
						UPDATE TO 8TH EDITION (2023) FBC		DESCRIPTION		REV	
						A					

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

TITLE: 6500 SECURITY SERIES VINYL CASEMENT WINDOW
ALTERNATE FRAME INSTALLATION DETAILS

DATE: 7/6/21
DRAWING NO: SHW0005
SHEET: 5 OF 6

DRAWN BY: RJA
SCALE: N.T.S.
REV: A

PREPARED BY: **PTC**

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Robert J. Amoruso, P.E.
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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SERIES 6500 CASEMENT											
Bill of Material											
Item No.	Part ID	QTY	Description/Part No.	Vendor	Vendor Part No.	Item No.	Part ID	QTY	Description/Part No.	Vendor	Vendor Part No.
	Vinyl						Lock System			Ind-Rad	
							Multi-point system			Ind-Rad	
1	CsmtAwnFmCW	4	Main Frame, Cream White	Vision	5895					Ind-Rad	
2	CsmtAwnFmALM	4	Main Frame, Almond	Vision	5895	36	LkHdICW	1	Evolution multipoint locking handle euro white(152)	Ind-Rad	PO-3000-152
3	CsmtAwnFmSS	4	Main Frame, Sand Stone	Vision	5895	37	LkHdIALM	1	Evolution multipoint locking handle Almond(191)	Ind-Rad	PO-3000-191
4	CsmtAwnSashCW	4	Main Sash, Cream white	Vision	5896	38	LkHdISS	1	Evolution multipoint locking handle Sand Stone (114)	Ind-Rad	PO-3000-114
5	CsmtAwnSashALM	4	Main Sash, Almond	Vision	5896	39	LkHdIBkerPlt	1	Lock Handle backer plate	Ind-Rad	PO-BP-2401-00SS
6	CsmtAwnSashSS	4	Main Sash, Sand Stone	Vision	5896	40	TieBargde	as req	0.600 Wrap around multipoint tie bar guide- cut off 0.110	Ind-Rad	TGW-600-110
7	GlazBCW	4	Glazing Bead, Cream White	Vision	2364	41	TieBarRmp	1	Tie bar ramp for 1300 tie bar series	Ind-Rad	FM-13000
8	GlazBALM	4	Glazing Bead, Almond	Vision	2364	42	Keeper	as req	304 Stainless steel interlocking roller keeper	Ind-Rad	GA-ILF-006-SS
9	GlazBSS	4	Glazing Bead, Sand Stone	Vision	2364	43	TieBar14.9"	1	S/S Interlocking roller tie bar, 14.9"-2 cam; Wh of 24"-29"	Ind-Rad	FM-13101-ILSS
						44	TieBar22.9"	1	S/S Interlocking roller tie bar, 22.9"-2 cam; Wh of 29.1"-37"	Ind-Rad	FM-13120-ILSS
						45	TieBar30.9"	1	S/S Interlocking roller tie bar, 30.9"-2 cam; Wh of 37.1"-45"	Ind-Rad	FM-13140-ILSS
	Reinforcements					46	TieBar38.9"	1	S/S Interlocking roller tie bar, 38.9"-3 cam; Wh of 45.1"-53"	Ind-Rad	FM-13160-ILSS
10	RefFmOp	4	Frame Operator Reinforcement		T-13187	47	TieBar46.9"	1	S/S Interlocking roller tie bar, 46.9"-4 cam; Wh of 53.1"-61"	Ind-Rad	FM-13181-ILSS
11	RefFmHinge	4	Frame Hinge		T-13186	48	TieBar54.9"	1	S/S Interlocking roller tie bar, 54.9"-4 cam; Wh of 61.1"-69"	Ind-Rad	FM-13201-ILSS
12	RefSash	4	Sash Reinforcement		T-13185	49	TieBar62.9"	1	S/S Interlocking roller tie bar, 62.9"-4 cam; Wh of 69.1"-73"	Ind-Rad	FM-13221-ILSS
13	RefSashHinge	1	Sash Reinforcement Hinge		T-53184	50	TieBar66.9"	1	S/S Interlocking roller tie bar, 66.9"-4 cam; Wh of 73"-76"	Ind-Rad	FM-13231-ILSS
									xxx = Color Code	CW	152
	Hardware									ALM	191
14	OpSmallRh	1	Dual arm Operator,Rh(D) 19 to 24" Width of Window	Ind-Rad	OPS-30615D-SS					SS	114
15	OpSmallLh	1	Dual arm Operator,Lh(G) 19 to 24" Width of Window	Ind-Rad	OPS-30615G-SS						
16	OpTrkSmall	1	Operator Track, Short Dual Arm	Ind-Rad	OPR-30615-SS1						
17	OPLargeRh	1	Dual arm Operator,Rh(D) 25 to 36 " Width of Window	Ind-Rad	OPS-30603D-SS						
18	OPLargeLh	1	Dual arm Operator,Lh(G) 25 to 36 " Width of Window	Ind-Rad	OPS-30603G-SS						
19	OpTrkLarge	1	Operator Track, Large Dual Arm	Ind-Rad	OPR-30603-SS	51	Operator Screws	6	# 8 X 1 Philips Flat Head Undcut, Drill Pt.		UXF8C16SS
20	OpShim	1	Operator Shim	Ind-Rad	OP-SPC-205	52	Stud Bracket	3	# 8 X 1 Philips Flat Head Undcut, Drill Pt.		UXF8C16SS
21	OpCovHndIRhCW	1	Contemporary Euro white(152) cover and handle, Rh	Ind-Rad	OP-3072OD-152	53	Dual Arm Bracket	3	# 8 X 1 Philips Flat Head Undcut, Drill Pt.		UXF8C16SS
22	OpCovHndILhCW	1	Contemporary Euro white(152) cover and handle, Lh	Ind-Rad	OP-3072OG-152	54	Hinge Track Frame	8	# 8 X 3/4 Philips Flat Head Undcut, Drill Pt.		UXF8C12SS
23	OpCovHndIRhALM	1	Contemporary Almond(191) cover and handle, Rh	Ind-Rad	OP-3072OD-191	55	Hinge, Sash	8	# 8 X 1 Philips Flat Head Undcut, Drill Pt.		UXF8C12SS
24	OpCovHndILhALM	1	Contemporary Almond(191) cover and handle, Lh	Ind-Rad	OP-3072OG-191	56	Snubber Frame	as req	# 8 X 3/4 Philips Pan Head, Drill Pt.		UXP8C12SS
25	OpCovHndIRhSS	1	Contemporary Sand Stone(114) cover and handle, Rh	Ind-Rad	OP-3072OD-114	57	Snubber Sash	as req	# 8 X 1 Philips Pan Head, Drill Pt.		UXP8C12SS
26	OpCovHndILhSS	1	Contemporary Sand Stone(114) cover and handle, Lh	Ind-Rad	OP-3072OG-114	58	Lock Handle Screw	2	# 10 - 32 X 0.625 Ph PH SS		MXP10C10SS
27	OpStBkRh	1	Operator stud brack, Rh(26)	Ind-Rad	OPS-10326-SS	59	Tie Bar Guide	as req	# 8 X 1 1/4" Philips Flat Head, Drill Pt.		UXP8C20SS
28	OpStBkLh	1	Operator stud brack, LH(27)	Ind-Rad	OPS-10327-SS	60	Keeper Screw	as req	# 8 X 1 Philips Flat Head Undcut, Drill Pt.		UXF8C12SS
29	CsmtHinge13Rh	2	304 S/S Adj 13" Wash. Hinge Snap on Rh(D)	Ind-Rad	BPS-5501-13DSS	61	Installation Screw	as req	#10 x 4 Philips Truss Head, Drill Pt, 3" from end, 8" on center		by others
30	CsmtHinge13Lh	2	304 S/S Adj 13" Wash. Hinge Snap on Lh(G)	Ind-Rad	BPS-5501-13GSS						
31	CsmtHinge13EgRh	2	304 S/S Adj 13" Egress. Hinge Snap on Rh(D)	Ind-Rad	BPS-5201-13DSS		Wstp				
32	CsmtHinge13EgLh	2	304 S/S Adj 13" Egress. Hinge Snap on Rh Lh(G)	Ind-Rad	BPS-5201-13GSS	62	LfSeal	as req	0.187 bk x 0.450 Leaf Seal	Schlegel	63-379B
33	CsmtHingeTk13Rh	2	304 S/S Adj 13" Snap on Track Rh(D)	Ind-Rad	RPS-5501-13DSS	63	WstpNf	as req	0.187 bk x 0.450 wstp		
34	CsmtHingeTk13Lh	2	304 S/S Adj 13" Snap on Track Lh(G)	Ind-Rad	RPS-5501-13GSS						
35	Snber	6 set	Snubber, 6 sets, 3',6',15" from ends and Center.	Ind-Rad	SB-600-SS1		Screen				
						64	ScrnFrameCW	4	Lip Screen Frame, Cream White (?)	Shapes	HJ-8126-H
						65	ScrnFrameALM	4	Lip Screen Frame, Almond (?)	Shapes	HJ-8126-H
						66	ScrnFrameSS	4	Lip Screen Frame, Sand Stond (?)	Shapes	HJ-8126-H
						67	ScrnCorKeyCW	4	Lip Screen Corner Key, Cream White(?)	Shapes	CK8126(xxx)CSP
						68	ScrnCorKeyALM	4	Lip Screen Corner Key, Almond(?)	Shapes	CK8126(xxx)CSP
						69	ScrnCorKeySS	4	Lip Screen Corner Key, Sand Stone(?)	Shapes	CK8126(xxx)CSP
						70	ScrnClpCW	4	Screen locking clips, Cream white		
						71	ScrnClpALM	4	Screen locking clips, Almond		

PROJECT #423-0103

SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY

DOTHAN, AL 36303

TITLE:

6500 SECURITY SERIES VINYL CASEMENT WINDOW

BILL OF MATERIALS

DRAWN BY:

RJA

DATE:

7/6/21

SCALE:

N.T.S.

SHEET:

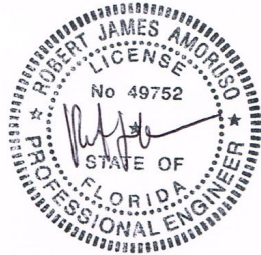
6 OF 6

PREPARED BY:



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