

Product Approval Code Specifications

As required by Florida Statute 553.842 and Florida Administrative Code 8B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org ***Paper form not required if online submittal for roofs ONLY**

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. Exterior Doors			
A. Swinging			
B. Sliding	Atrium	Sliding Glass Door	11646.1
C. Sectional/Roll Up			
D. Other			
2. Windows			
A. Single/Double Hung	CWS	Single Hung Window	17234.1
B. Horizontal Slider	Pella	Horizontal Slider	16809.8
C. Casement			
D. Fixed			
E. Mullion			
F. Skylights			
G. Other			
3. Panel Walls			
A. Siding			
B. Soffits			
C. Storefronts			
D. Glass Block			
E. Other			
4. Roofing Products			
A. Asphalt Shingles			
B. Non-Struct Metal			
C. Roofing Tiles			
D. Single Ply Roof			
E. Other			
5. Struct Componenets			
A. Wood Connectors			
B. Wood Anchors			
C. Truss Plates			
D. Insulation Forms			
E. Lintels			
F. Others			
6. New Exterior			
A. Envelope Products			



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > **Application List**

OFFICE OF THE
SECRETARY

Search Criteria

[Refine Search](#)

Code Version	2023	FL#	17234.1
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL17234-R8 History	Revision	Custom Window Systems Inc. FL#: FL17234.1 Model: SH-610 Vinyl Single Hung Description: SH-610 Vinyl Single Hung, Non-Impact, 53 1/8" x 76" Category: Windows Subcategory: Single Hung	Steven M. Urich, PE (717) 317-8454	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

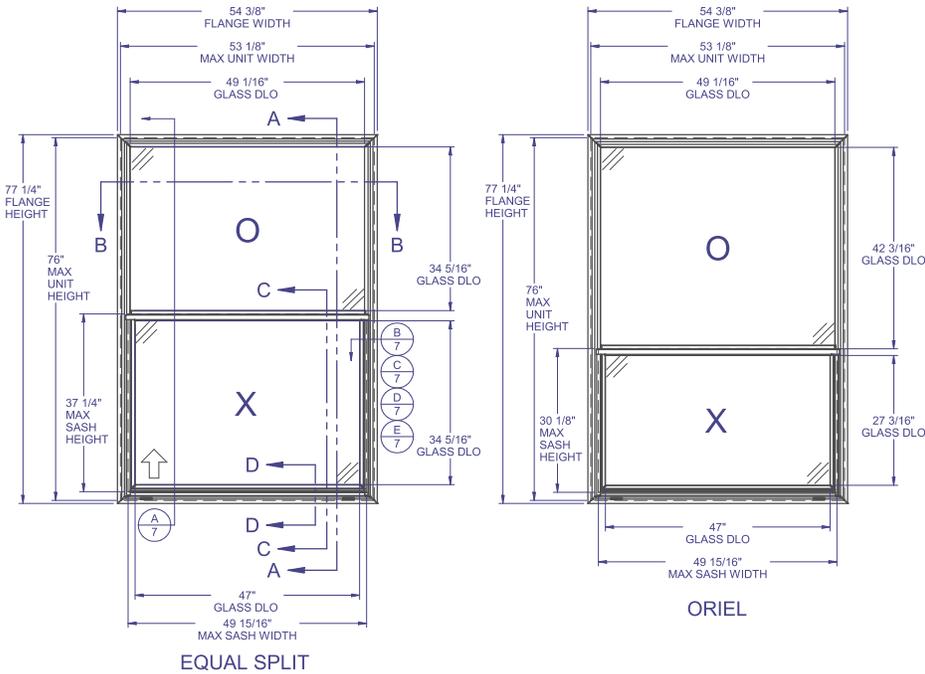
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Product Approval Accepts:



SINGLE HUNG - NON-IMPACT
(SHOWN w/DIFFERENT OPTIONS)



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION.
2. GLAZING OPTIONS: (SEE SHEET 3)
3. CONFIGURATIONS: "O/X".
4. DESIGN PRESSURE RATING (SEE SHEET 2):
-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 7 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. NOT APPROVED FOR IMPACT RESISTANCE. IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
8. SERIES / MODEL DESIGNATION SH-610.
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 1-1/2" LOCATED 5" FROM BOTH ENDS.

Lucas Turner
2023.09.13
16:32:27
-05'00'



**610 PVC
SINGLE HUNG
NON-IMPACT**

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FLORIDA APPROVAL NO.:
17234



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	8/30/2023
DWG #:	REV.:
CWS-935	F
SCALE:	SHEET
1:20	1 OF 7

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CONFIG.	MAX. UNIT SIZE	EXTERNAL REINFORCEMENT	DESIGN PRESSURE RATING	IMPACT RATING
EQUAL	37" x 76"	NONE	SEE COMPARATIVE ANALYSIS CHART, SHEET 2	NONE
EQUAL	53-1/8" x 76"	* 2011		
5 HI ORIEL				

* ONLY REQUIRED WITH H-6137 FIXED MEETING RAIL & SCREW-ON INTERLOCK, S-2001 - SEE SHEET 4 FOR DETAILS.

Design Pressures (PSF) for Equal Split Configuration with Glass Types A, B, C, or D

Unit	Unit Widths (in.)										
Heights (in.)	23 1/2	27 1/2	29 1/2	31 1/2	35 1/2	39 1/2	41 1/2	43 1/2	47 1/2	51 1/2	53 1/8
35 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0
39 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0
41 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-73.1
43 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-73.4	+50.0/-70.6
47 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-68.9	+50.0/-66.2
51 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-72.7	+50.0/-65.2	+50.0/-62.6
53 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-71.0	+50.0/-63.6	+50.0/-61.0
55 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-69.5	+50.0/-62.1	+50.0/-59.5
59 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-66.8	+50.0/-59.5	+50.0/-57.0
63 1/2	+50.0/-75.0	+50.0/-72.9	+50.0/-72.0	+50.0/-71.6	+50.0/-71.6	+50.0/-71.6	+50.0/-71.6	+50.0/-71.6	+50.0/-64.6	+50.0/-57.3	+50.0/-54.8
65 1/2	+50.0/-73.2	+50.0/-69.1	+50.0/-68.0	+50.0/-67.4	+50.0/-67.3	+50.0/-67.3	+50.0/-67.3	+50.0/-67.3	+50.0/-63.6	+50.0/-56.4	+50.0/-53.9
67 1/2	+50.0/-69.8	+50.0/-65.6	+50.0/-64.4	+50.0/-63.7	+50.0/-63.4	+50.0/-63.4	+50.0/-63.4	+50.0/-63.4	+50.0/-62.7	+50.0/-55.5	+50.0/-53.0
71 1/2	+50.0/-64.0	+50.0/-59.7	+50.0/-58.3	+50.0/-57.3	+50.0/-56.5	+50.0/-56.5	+50.0/-56.5	+50.0/-56.5	+50.0/-56.5	+50.0/-53.9	+50.0/-51.5
74 3/4	+50.0/-59.9	+50.0/-55.6	+50.0/-54.1	+50.0/-53.0	+50.0/-51.8	+50.0/-51.7	+50.0/-51.7	+50.0/-51.7	+50.0/-51.7	+50.0/-51.7	+50.0/-50.4
76	+50.0/-58.5	+50.0/-54.1	+50.0/-52.6	+50.0/-51.5	+50.0/-50.2	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0

Design Pressures (PSF) for Oriel Configuration with Glass Types A, B, C, or D in the Sash, and Glass Types Cor D in the Fixed

Unit	Unit Widths (in.)										
Heights (in.)	23 1/2	27 1/2	29 1/2	31 1/2	35 1/2	39 1/2	41 1/2	43 1/2	47 1/2	51 1/2	53 1/8
35 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0
39 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-74.1
41 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-74.2	+50.0/-71.3
43 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-71.6	+50.0/-68.9
47 1/2	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-75.0	+50.0/-74.8	+50.0/-67.2	+50.0/-64.6
51 1/2	+50.0/-69.0	+50.0/-68.4	+50.0/-68.4	+50.0/-68.4	+50.0/-68.1	+50.0/-67.4	+50.0/-67.4	+50.0/-67.4	+50.0/-67.4	+50.0/-63.6	+50.0/-61.1
53 1/2	+50.0/-64.4	+50.0/-63.4	+50.0/-63.4	+50.0/-63.4	+50.0/-62.4	+50.0/-61.2	+50.0/-61.1	+50.0/-61.1	+50.0/-61.1	+50.0/-61.1	+50.0/-59.5
55 1/2	+50.0/-60.3	+50.0/-58.9	+50.0/-58.9	+50.0/-58.9	+50.0/-57.6	+50.0/-56.1	+50.0/-55.7	+50.0/-55.6	+50.0/-55.6	+50.0/-55.6	+50.0/-55.6
59 1/2	+50.0/-53.6	+50.0/-51.6	+50.0/-51.3	+50.0/-51.3	+50.0/-51.3	+50.0/-51.0	+50.0/-50.5	+50.0/-50.1	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
63 1/2	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
65 1/2	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
67 1/2	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
71 1/2	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
74 3/4	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0
76	+50.0/-52.5	+50.0/-50.4	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0	+50.0/-50.0

NOTE:
IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.



**610 PVC
SINGLE HUNG
NON-IMPACT**

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FLORIDA APPROVAL NO.:
17234



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:
DESIGN PRESSURE
CHARTS

DRAWN BY:	DATE:
MCS	8/30/2023
DWG #:	REV.:
CWS-935	F
SCALE:	SHEET
1:1	2 OF 7



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

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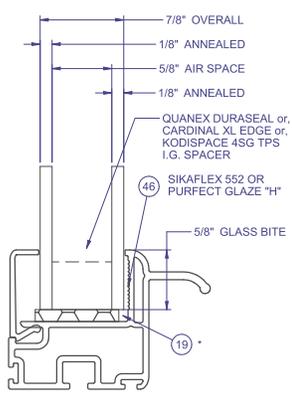
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17234



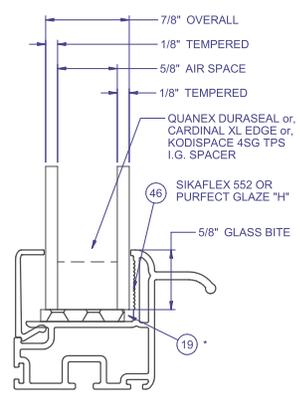
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FL PE # 58201
Turner Engineering &
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2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:
GLAZING DETAILS

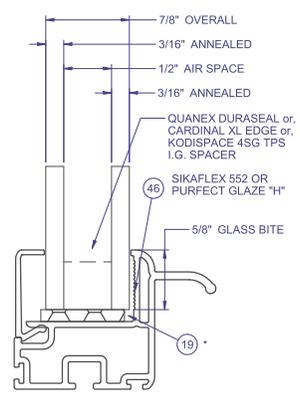
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MCS	8/30/2023
DWG #:	REV.:
CWS-935	F
SCALE:	SHEET
1:1	3 OF 7



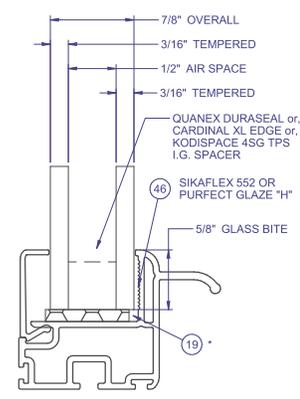
GLASS TYPE A



GLASS TYPE B



GLASS TYPE C



GLASS TYPE D

SETTING BLOCKS PER FBC 2411.3.3.1



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

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9/13/2023

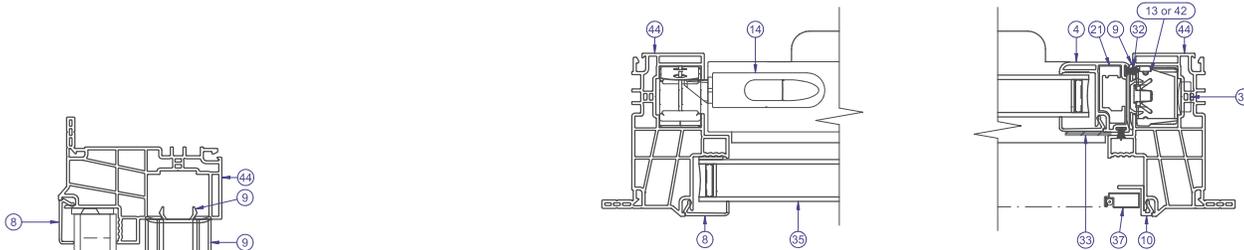
LUCAS A. TURNER, P.E.
FL PE # 58201
Turner Engineering &
Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

SECTION VIEWS

DRAWN BY:	DATE:
MCS	8/30/2023
DWG #:	REV.:
CWS-935	F
SCALE:	SHEET
1:2	4 OF 7

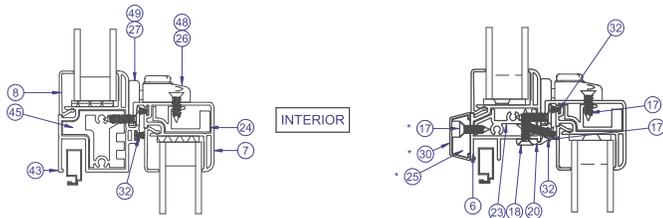
INTERIOR



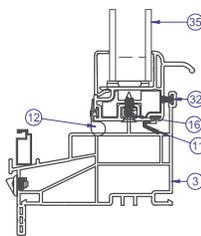
SECTION B-B

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

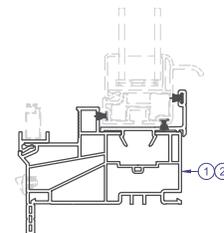
INTERIOR



SECTION A-A



SECTION C-C
ALTERNATE MTG RAIL
AND SLOPE SILL

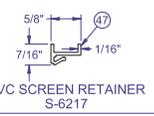
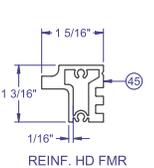
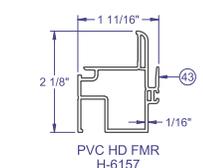
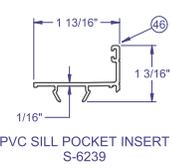
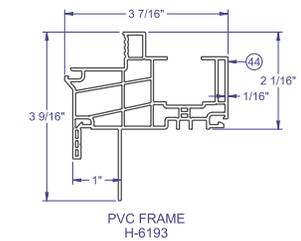
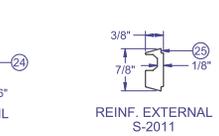
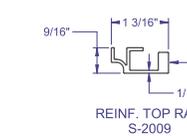
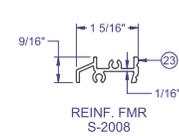
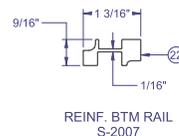
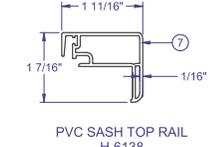
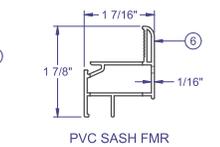
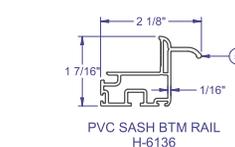
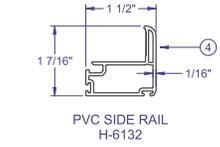
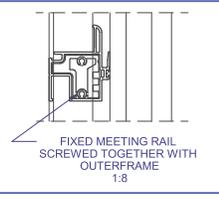
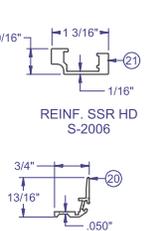
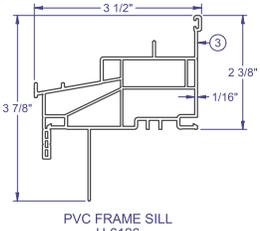
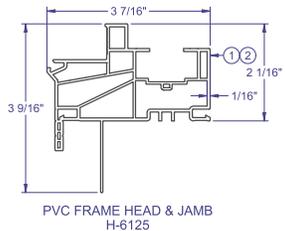


SECTION D-D
ALT 562 POCKET UNI-FRAME

- NOTES:
- FIN FRAME AVAILABLE FOR BOTH UNI-FRAME AND STANDARD FRAME TYPES.
 - 880 BALANCERS AND DEEP POCKET UNI-FRAME (H-6193) REQUIRED FOR LARGER SASHES.
 - * EXTERNAL REINFORCEMENT REQUIRED ON UNIT WIDTHS OVER 37" WITH THE H-6137 FIXED MEETING RAIL AND SCREW-ON INTERLOCK, S-2001.

NOTE: ITEMS NOT SHOWN FOR CLARITY: 38-41

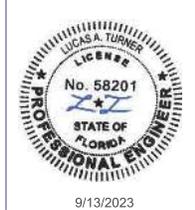
ITEM	PART	DESCRIPTION	MATERIAL
1	H-6125	HEAD, OUTERFRAME	PVC
2	H-6125	JAMBS, OUTERFRAME	PVC
3	H-6126	SILL, OUTERFRAME	PVC
4	H-6132	SASH SIDE RAIL	PVC
5	H-6136	SASH BOTTOM RAIL	PVC
6	H-6137	FIXED MEETING RAIL	PVC
7	H-6138	SASH TOP RAIL	PVC
8	S-6141	GLAZING BEAD	PVC
9	S-5592	SASH STOP, ADEPT, SH/DH, CROSSOVER, 3	PVC
10	S-6143	SCREEN ADAPTOR	PVC
11	P-5085	WSTP, QLON BULB VINYL	
12	P-5086	WSTP, QLON BULB VINYL	
13		BALANCERS - CONSTANT FORCE RT 562	
14	P-5392	SASH TILT LATCH	NYLON
15	P-5393	PIVOT CARRIER	NYLON
16	P-5396	PIVOT BAR	SS
17	P-3515	#8 X 5/8 PHIL FLAT WHITE SMS	STEEL
18	P-4146	#8 X 3/4 PHIL FLAT tek	STEEL
19	P-5612	SETTING BLOCK, .12 x 1 x 2	RUBBER
20	S-2001	INTERLOCK RAIL	ALUM
21	S-2006	REINF, SASH SIDE RAIL, HD	ALUM
22	S-2007	REINF, BOTTOM RAIL	ALUM
23	S-2008	REINF, FMR	ALUM
24	S-2009	REINF, TOP RAIL	ALUM
26	P-5388	CAM LOCKS	NYLON
27	P-5389	CAM KEEPERS	NYLON
28	P-5420	WEEP HOLE COVER (crossover)	NYLON
31		SIKA FLEX 552 OR PURFECT GLAZE 'H'	SILICONE
32	P-3305	WSTP, .270 X 187, SOFT TOUCH FIN	
33	P-5425	WSTP, .200 X 5/8" X 5/8" DUST PLUG	
34	P-5588	HOLE PLUG	NYLON
35		GLASS SEE SHEET 2	
36	P-4638	#8 X 2-1/2 PHIL TRUSS tek	STEEL
37	P-3218	SCREEN FRAME	ALUM
38	P-4754	SCREEN CORNER KEY	NYLON
39	P-5576	Screen Spline, .125" Black PE Ribbed	
40	P-4755	SCREEN CORNER KEY (Rollform scrn 1" off	
41	P-3195	SPRING, NO HOLE TENSION C-8400	
42		BALANCERS - CONSTANT FORCE RT 880	
43	H-6157	HD FIXED MEETING RAIL	PVC
44	H-6193	UNI-FRAME, 880 BALANCERS	PVC
45	H-2115	REINF, HD FMR	ALUM
46	S-6239	UNI-FRAME SILL POCKET INSERT	PVC
47	S-6217	UNI-FRAME SCREEN RETAINER	PVC



610 PVC SINGLE HUNG NON-IMPACT

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FLORIDA APPROVAL NO.:
17234



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:

BOM AND EXTRUSIONS	
DRAWN BY:	DATE:
MCS	8/30/2023
DWG #:	REV.:
CWS-935	F
SCALE:	SHEET
1:2	5 OF 7

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

**610 PVC
 SINGLE HUNG
 NON-IMPACT**

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FLORIDA APPROVAL NO.:
 17234

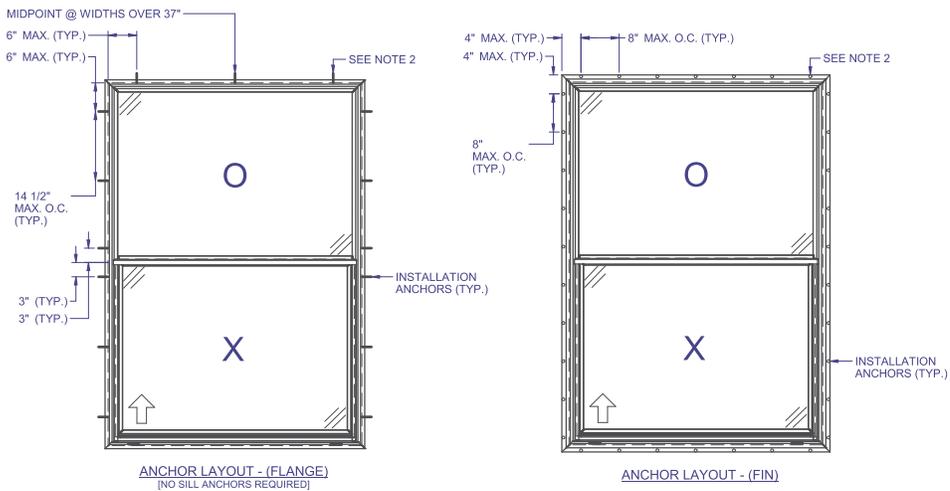


9/13/2023

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:
**ANCHOR SCHEDULE AND
 NOTES**

DRAWN BY:	MCS	DATE:	8/30/2023
DWG #:	CWS-935	REV.:	F
SCALE:	1:20	SHEET	6 OF 7



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 7.
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 7.
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 - 1X BUCKS ARE OPTIONAL.
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 7. 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)

**610 PVC
 SINGLE HUNG
 NON-IMPACT**

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FLORIDA APPROVAL NO.:
 17234



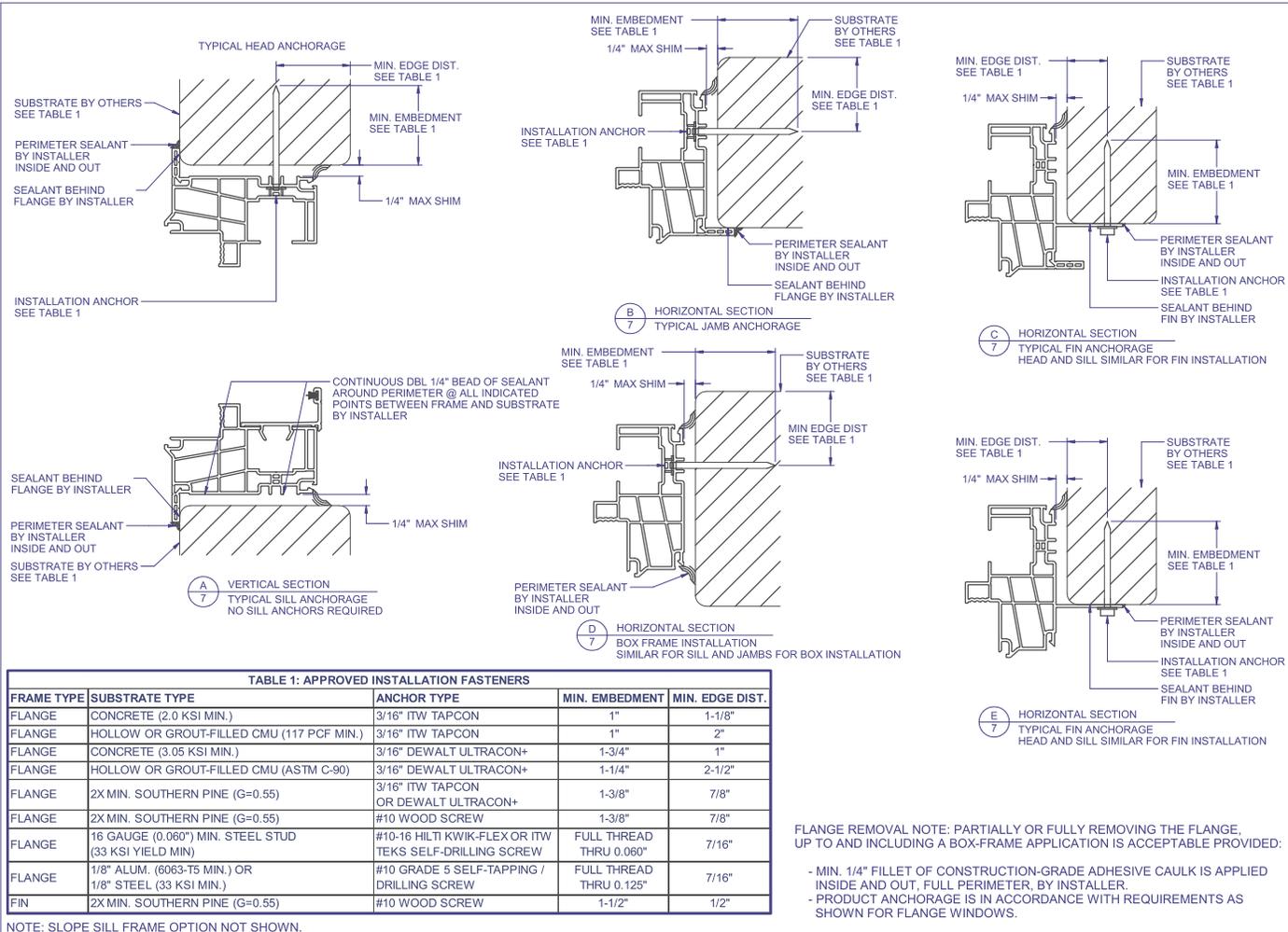
9/13/2023

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:

INSTALLATION DETAILS

DRAWN BY:	MCS	DATE:	8/30/2023
DWG #:	CWS-935	REV.:	F
SCALE:	1:2	SHEET	7 OF 7





Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > **Application List**

OFFICE OF THE
SECRETARY

Search Criteria

[Refine Search](#)

Code Version	2023	FL#	16809.8
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL16809-R9 History	Revision	Pella Corporation FL#: FL16809.8 Model: 250 Series Sliding Window Description: 96" x 62" vinyl non-impact XO/OX sliding window with lock and meeting stile reinforcements. Category: Windows Subcategory: Horizontal Slider	T.E. Lunn, PE, LLC (561) 625-6455	Approved *

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



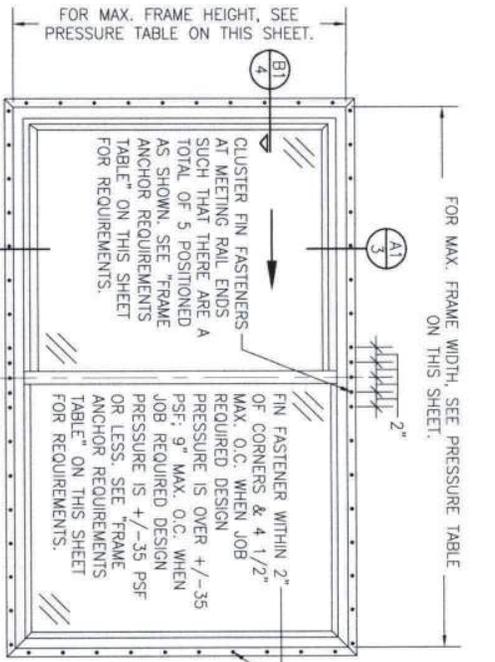
GENERAL NOTES:

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED. MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BLOCKING & BLOCKING FASTENERS MUST BE THE FINISHED CONDITION. THE FINISHED CONDITION SHALL BE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
3. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUICKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
4. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, SHALL COME INTO CONTACT WITH OTHER DOWNSHAFT MATERIALS CHAPTER 20.
5. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
6. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID WITHOUT THE CERTIFICATION OF THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCOMPLETE OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
7. THE LEAST DESIGN PRESSURE SPECIFIED SHALL CONTROL FOR THE INSTALLED PRODUCT.
8. THESE DRAWINGS CERTIFY THE PRODUCT INSTALLATION ONLY. WATERPROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

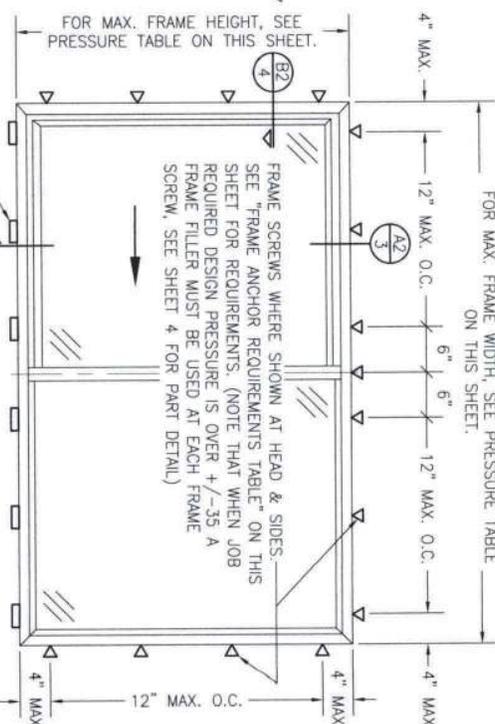
FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
(1) FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUICK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 1/4"	2"
(1) INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUICK (MIN. GR. 3 & G=0.55)	NO. 10 SMS SCREW	1 1/4"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
2500 PSI CONCRETE	(2) 3/16" CONCRETE SCREW	1 1/4"	2"
(3) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUICK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUICK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-15 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) FRAME AND INSTALLATION CLIP SCREWS SHALL BE A PAN OR HEX HEAD SCREW.
- (2) CONCRETE SCREWS SHALL BE ELCO ULTRAPONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSEY/RED HEAD TARPONS (C.S. OR S.S.) OR HILTI Kwik-Con II (C.S. OR S.S.).
- (3) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFLELE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION: XO WINDOW
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)



EXTERIOR ELEVATION: XO WINDOW
SCALE: 3/4" = 1'-0"
(FRAME SCREW AND CLIP MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE (XO & OX UNITS)

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (+/- PSF)	ALLOWABLE PRESSURE (PSF)
52 1/4	62	50
72	44	50
73 1/2	72	25
96	62	30

PRESSURES & CONDITIONS SHOWN IN THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCTS STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION GOVERNING THIS DRAWING IS THE 2018 FLORIDA BUILDING CODE. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED PRODUCT, PRIOR TO STATING COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFORM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD SHALL THE DESIGNATION OF THE ENGINEER OF RECORD WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

ANCHOR/SUBSTRATE EVALUATION NOTE:
THESE SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARDS AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

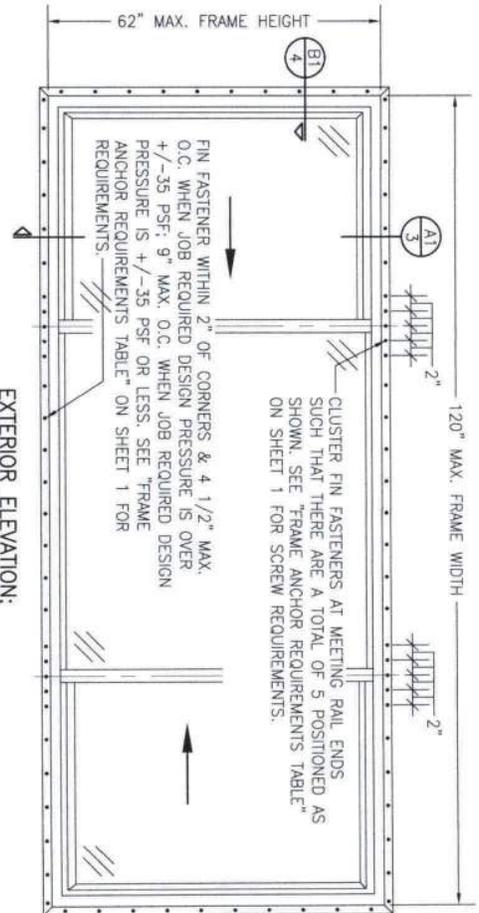
INSTALLATION NOTE:
WHEN NECESSARY, INSTALLATION METHODS MAY BE WIAED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW EXAMPLE ONE OR THE OTHER FRAME SCREWS METHOD WHILE OTHER SIDES USE FIN.



Digitally signed
by Warren W
Schaefer
Date: 2023.03.09
09:35:55 -05'00'

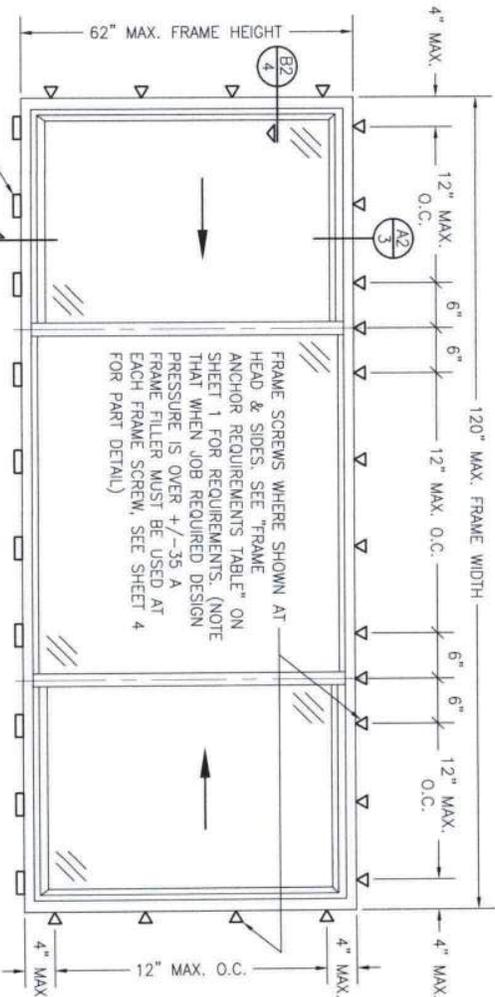
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR PATENT, AND/OR LOCK APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWING NO. 1869 SHEET NO. 1 OF 5	CERTIFICATION	DRAWING TITLE	250 SERIES VINYL SLIDING GLASS NON-IMPACT WINDOW	MANUFACTURER	PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	CHECKED BY: W.S.S. DATE: 02/29/14
		CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 MADIR ROAD, UNIT 309 PUNTA CORA, FL 33583 PHONE: 561-744-3424			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135				PELLA		NO. REVISION DESCRIPTION BY DATE
						A1 ADDED WINDOW CONDITIONS W.W.S. 06/17/14
						B1 UPDATE FOR NEW TESTING W.W.S. 03/08/16
						C1 UPDATE TO CURRENT STANDARDS W.W.S. 03/09/23



**EXTERIOR ELEVATION:
XOX WINDOW
(NAIL FIN MOUNT CONDITION)**

SCALE: 3/4" = 1'-0"



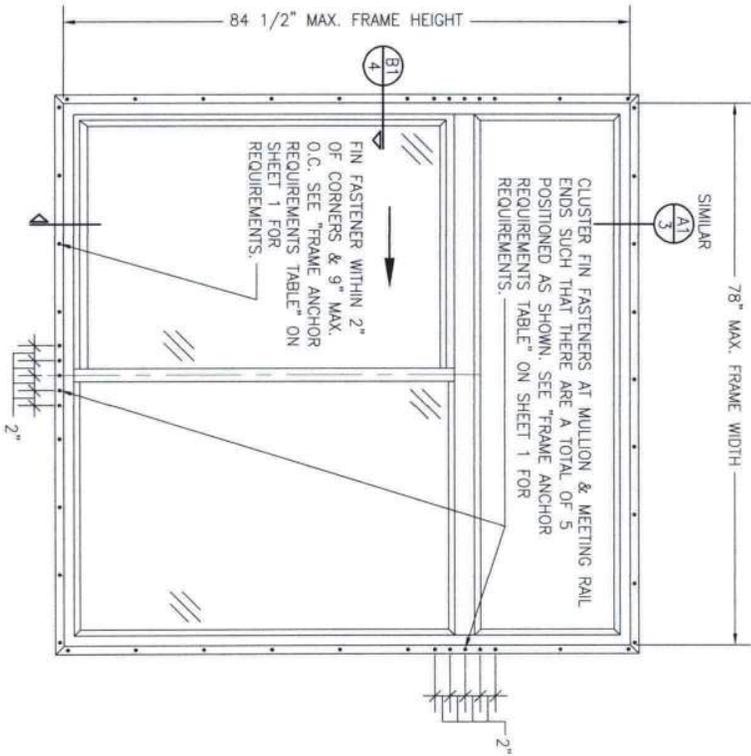
**EXTERIOR ELEVATION:
XOX WINDOW
(FRAME SCREW AND CLIP MOUNT CONDITION)**

SCALE: 3/4" = 1'-0"

ALLOWABLE DESIGN PRESSURE (XOX UNITS)		
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE (+/- PSF)
96	72	25
108	44	50
120	62	30

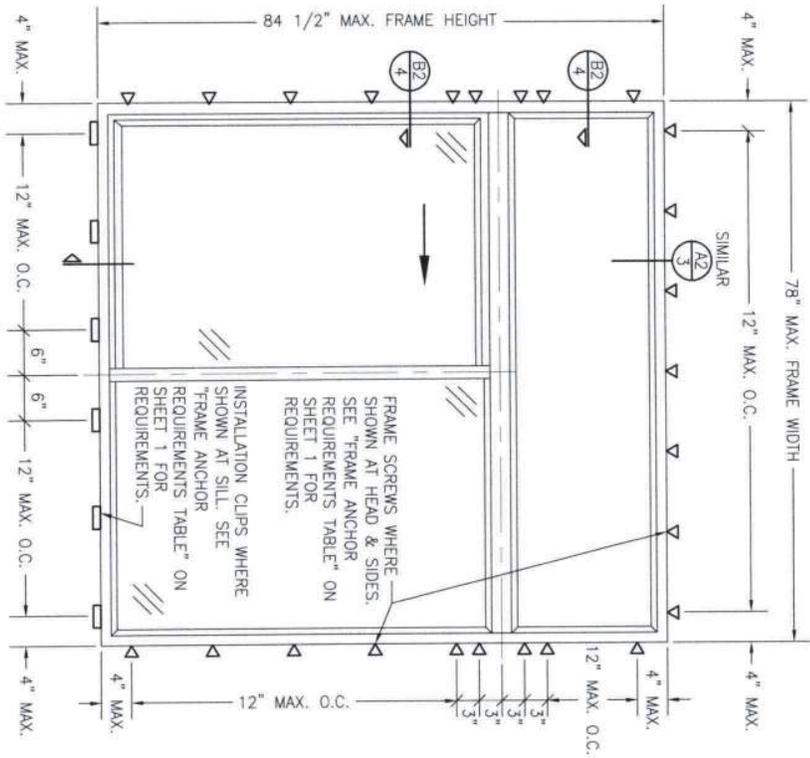
PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOWS STATE APPROVAL OR THAT SHOWN IN THIS TABLE.

DRAWING NO. 1869 SHEET NO. 2 OF 5	CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE 250 SERIES VINYL SLIDING GLASS NON-IMPACT WINDOW	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER  PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000	NO. _____ REVISION DESCRIPTION _____ BY _____ DATE _____	DRAWN BY: _____ W.W.S. _____ DATE: 02/07/14	CHECKED BY: _____ W.W.S. _____
					PROJECT: 15		



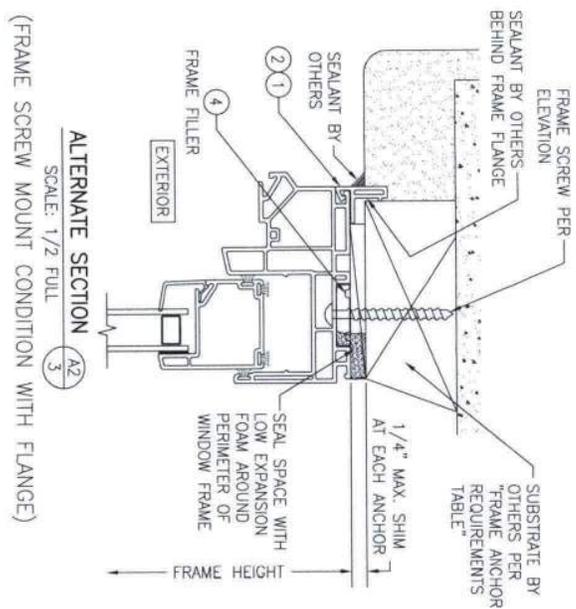
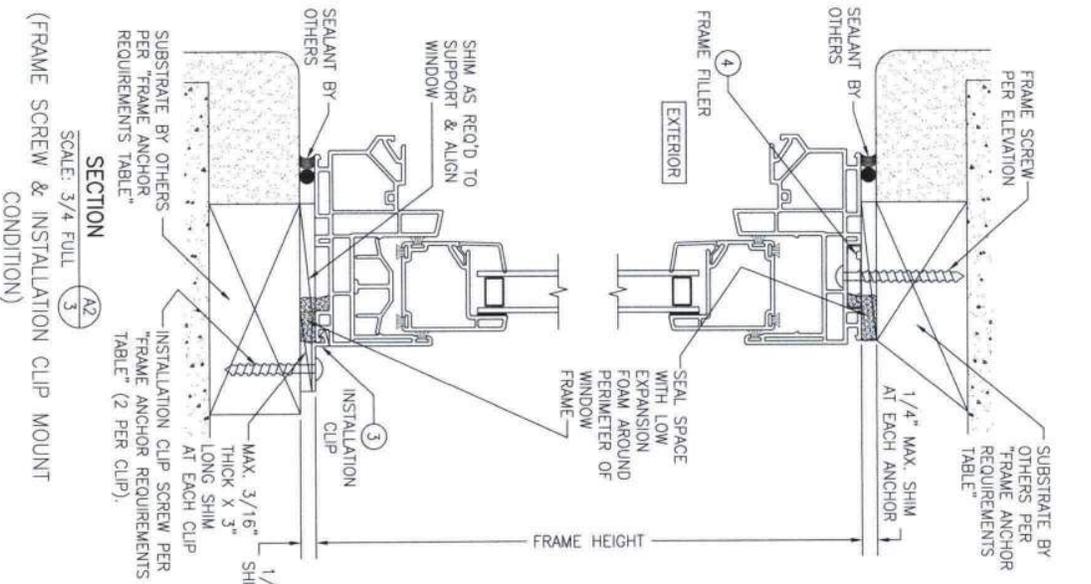
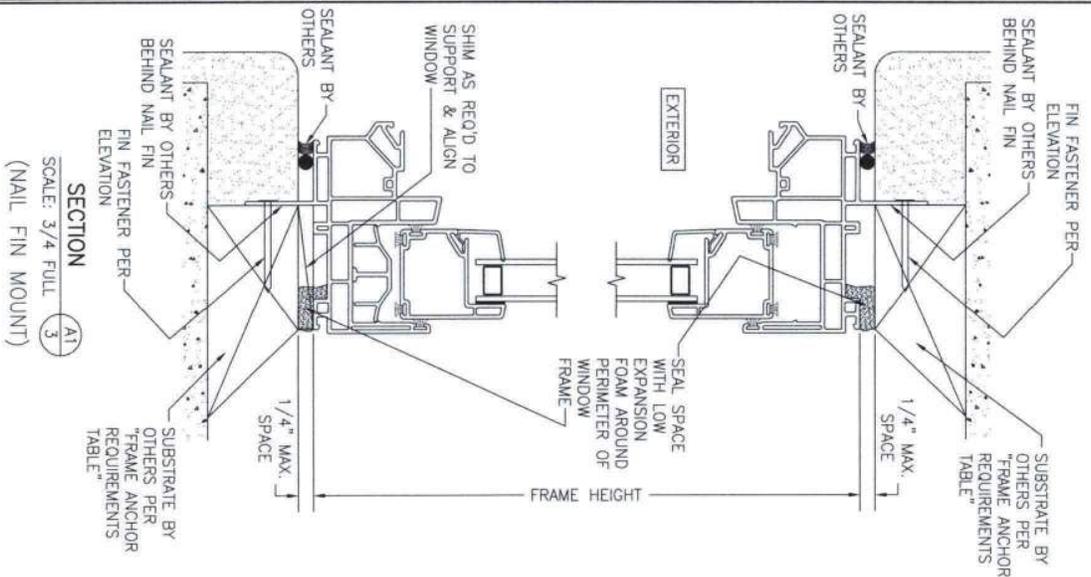
EXTERIOR ELEVATION:
XO OR OX WINDOW WITH TRANSOM
 SCALE: 3/4" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE
 (TRANSOM UNITS)
 +/-25 PSF



EXTERIOR ELEVATION:
XO OR OX WINDOW WITH TRANSOM
 SCALE: 3/4" = 1'-0"
 (FRAME SCREW AND CLIP MOUNT CONDITION)

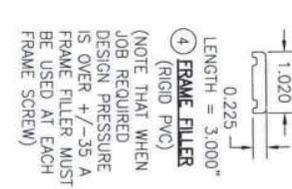
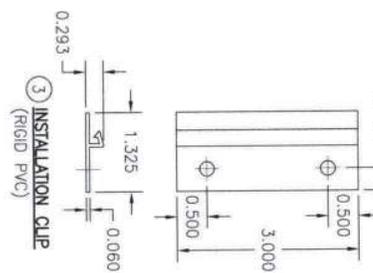
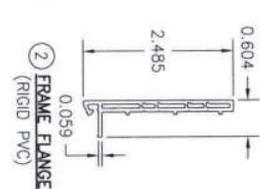
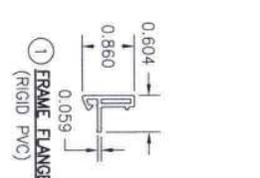
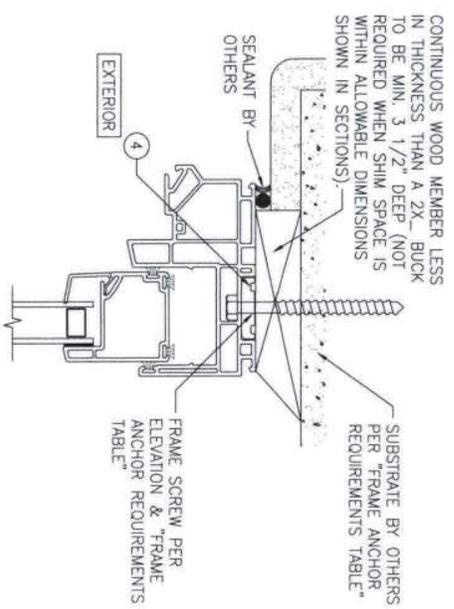
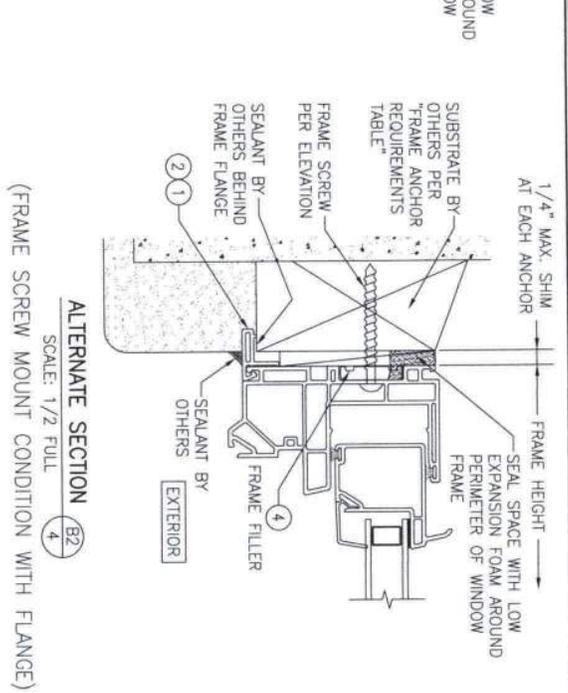
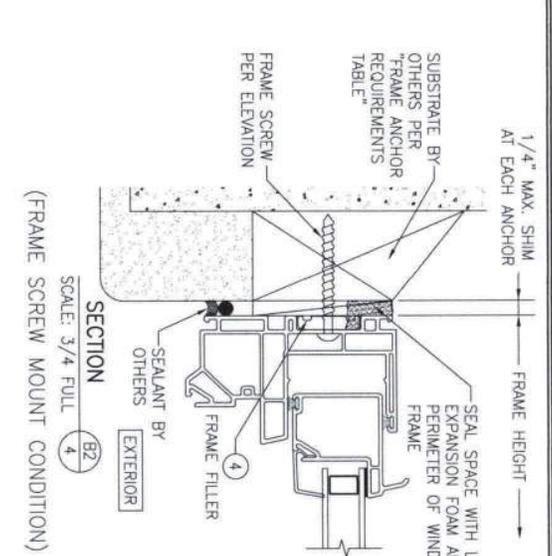
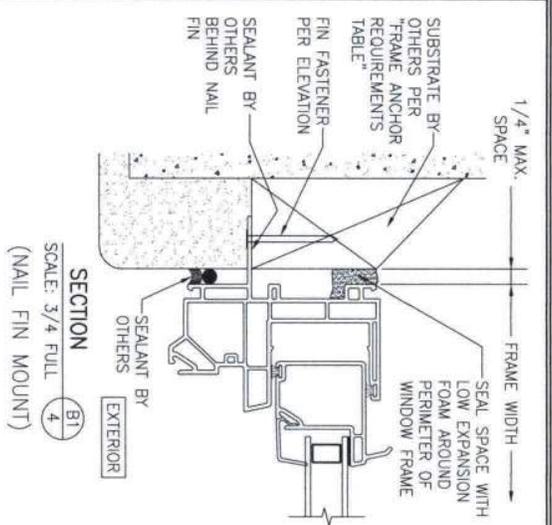
DRAWING NO. 1869 SHEET NO. 3 OF 5	CERTIFICATION	DRAWING TITLE	NO.	REVISION DESCRIPTION	BY	DATE	DRAWN BY W.A.M.	CHECKED BY W.M.S.
		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD, UNIT 309 PLANTA GORDA, FL 33063 PHONE: 561-744-3424	MANUFACTURER PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000					



NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING NO. 1869	DATE 02/04/14	CHECKED BY
SHEET NO. 4 OF 5	WARREN W. SCHAEFER, P.E.	DATE 02/04/14

DRAWING TITLE 250 SERIES VINYL SLIDING GLASS NON-IMPACT WINDOW		MANUFACTURER Pella
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		102 MAIN STREET PELLA, IA 50219 641-621-1000
26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424		



CONTINUOUS WOOD MEMBER LESS THAN 1/2\"/>

OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SIDES ARE INSTALLED THE SAME)
 (DIRECT MOUNT CONDITION IS NOT APPLICABLE AT SILL)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION DESCRIPTION	BY	DATE

MANUFACTURER
PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219
 641-621-1000



CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 26376 NADIR ROAD, UNIT 309
 PUNTA GORDA, FL 33983
 PHONE: 561-744-3424

CERTIFICATION
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING TITLE
 250 SERIES VINYL SLIDING GLASS NON-IMPACT WINDOW

DRAWING NO.
 1869

SHEET NO.
 5 OF 5



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > **Application List**

OFFICE OF THE
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Search Criteria

[Refine Search](#)

Code Version	2023	FL#	11646.1
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL11646-R15 History	Affirmation	Atrium Windows & Doors FL#: FL11646.1 Model: 311/312/378 Sliding Glass Door Description: R-PG35*-1797x2019 (71x80)-SD (311), R-PG35-2407x2019 (95x80)-SD (312), R-PG30-1899x2426 (75x96)-SD (312), R-PG35-1829x2083 (72x82)-SD (378) Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	National Accreditation & Management Institute (804) 684-5124	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL11646-R15
Application Type	Affirmation
Code Version	2023
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Atrium Windows & Doors
Address/Phone/Email	300 Welcome Center Blvd. Welcome, NC 27374 (800) 542-9118 Ext 413596 luanne.harris@cornerstone-bb.com
Authorized Signature	Harris Luanne luanne.harris@cornerstone-bb.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	Luanne Harris
Address/Phone/Email	300 Welcome Center Blvd. Welcome, NC 27374 (800) 542-9118 Ext 413596 luanne.harris@cornerstone-bb.com
Category	Exterior Doors
Subcategory	Sliding Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute
Validated By	National Accreditation & Management Institute
Referenced Standard and Year (of Standard)	Standard AAMA/WDMA/CSA 101/I.S.2/A440
	Year 2008
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL11646 R15 Equiv FL11646 Equivalency Letter SS 2022-02-11.pdf

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity Yes No N/A

ATRIUM CORPORATION - 311/312/378 VINYL SLIDING GLASS DOOR (NON-IMPACT)



300 WELCOME CENTER BLVD
WELCOME, NC 27374
PH: (800) 542-9118

UPDATED FOR 7TH EDITION (2020) FBC

LMH 01.10.22

LS 09.01.16

SM 06.02.14

JLA 12.08.11

REVISION DESCRIPTION

BY DATE

NO.

DWN BY:

MSS

CHK BY:

HFN

SCALE:

NTS

DATE:

12.23.10

TITLE:

311/312/378 VINYL SLIDING GLASS DOOR

INSTALLATION & GENERAL NOTES

HERMES F. NORERO, P.E.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
FLPE CERT. OF AUTHORIZATION No. 28578

Digitally signed by Hermes F. Norero
Reason: I am approving this document
Date: 2022.04.11 16:48:47 -0500



BUILDING DROPS, INC.
BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

FL #: 11646

DWG #: ATR023

SHEET: 1 OF 5

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM(S) AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR NAIL FIN: WOOD BUCK: USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR NAIL FIN: STEEL STUD: USE #8 TEK SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- FOR THRU FRAME: WOOD BUCK: USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR THRU FRAME: CONCRETE/MASONRY: FOR INSTALLATION THROUGH IX BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR THRU FRAME: STEEL STUD: USE #10 TEK SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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 BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C-476. MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GAUGE)

OVERALL SIZE			PRODUCT RATING	MAX. DESIGN PRESSURE	CONFIGURATION	MISSILE IMPACT RATING
WIDTH	HEIGHT					
70-3/4"	79-1/2"		R-PG35	+35/-35 PSF	FIN	NON-IMPACT
94-3/4"	79-1/2"		R-PG35	+35/-35 PSF		
74-3/4"	95-1/2"		R-PG30	+30/-30 PSF		
* 72"	82"		R-PG35	+35/-35 PSF	FINLESS	NON-IMPACT
71-9/16"	79-1/2"		R-PG35	+35/-35 PSF		
95-5/8"	79-1/2"		R-PG35	+35/-35 PSF		
75-3/4"	95-1/2"		R-PG30	+30/-30 PSF	FINLESS	NON-IMPACT
* 72"	82"		R-PG35	+35/-35 PSF		

*UNIT USES ALUMINUM REINFORCEMENTS, ALL OTHERS USE STEEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS
3	ANCHOR LAYOUTS
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS & GLAZING DETAIL

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) AND THE CURRENT IRC/IBC, EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAYM/WDMA/GSA 101/1.S.2/A440-08
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL STUD, AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: WHITE OR BEIGE VINYL
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAIL.

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 2010 CODE CHANGE	JLA	12.08.11
B	FBC 5TH ED. CODE CHANGE	SM	06.02.14
C	CERTIFICATION UPDATE	LS	09.01.16
D	UPDATED FOR 7TH EDITION (2020) FBC	LMH	01.10.22

DATE: 12.23.10
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

HERNIES F. NORERO, P.E.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
FLPR CERT. OF AUTHORIZATION No. 29578

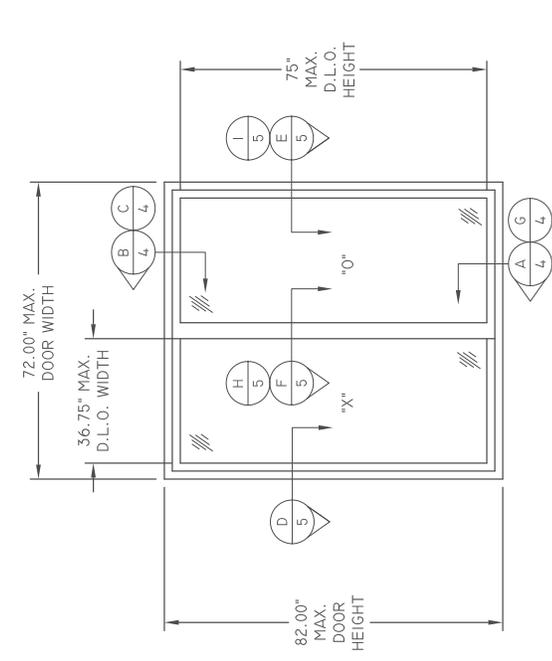


BUILDING DROPS, INC.
BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

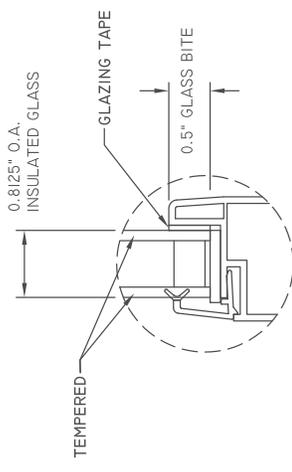
FL#: 11646

DWG#: ATR023

SHEET: 2 OF 5

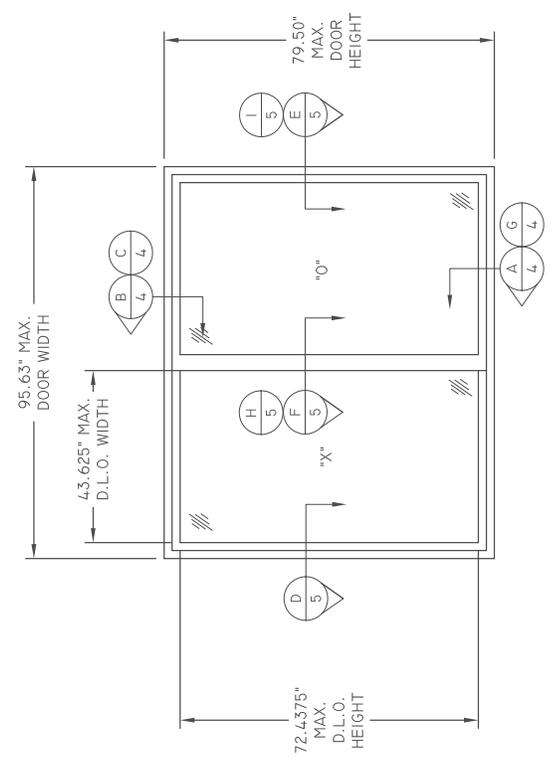


ELEVATION
TYPICAL

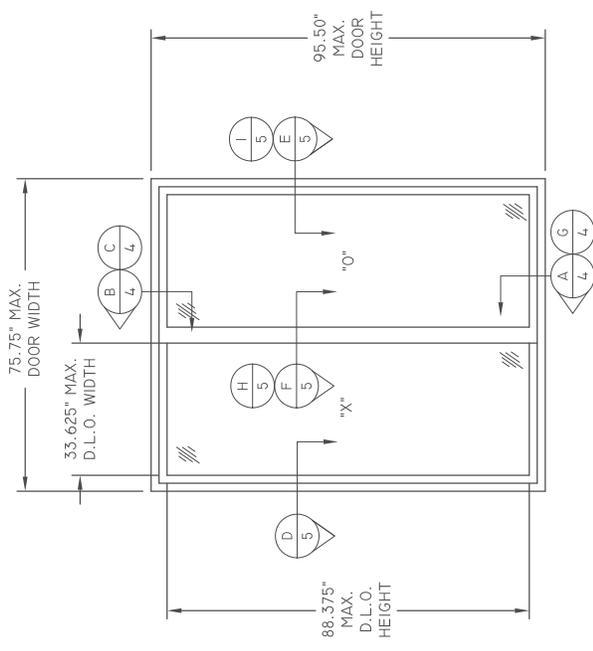


GLAZING DETAIL

- NOTES:
- GLASS THICKNESS AND TYPE MAY VARY PER ASTM E 1300 REQUIREMENT GLASS CHARTS.
 - ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE CURRENT FBC.



ELEVATION
TYPICAL

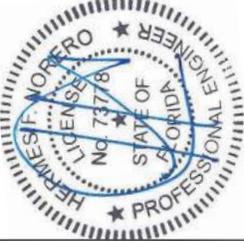


ELEVATION
TYPICAL

D	UPDATED FOR 7TH EDITION (2020) FBC	LMH	01.10.22
C	CERTIFICATION UPDATE	LS	09.01.16
B	FBC 5TH ED. CODE CHANGE	SM	06.02.14
A	FBC 2010 CODE CHANGE	JLA	12.08.11
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DATE: 12.23.10
DWN BY:
MSS
CHK BY:
HFN
SCALE:
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HERNIES F. NORERO, P.E.
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FLBP CERT. OF AUTHORIZATION No. 29578

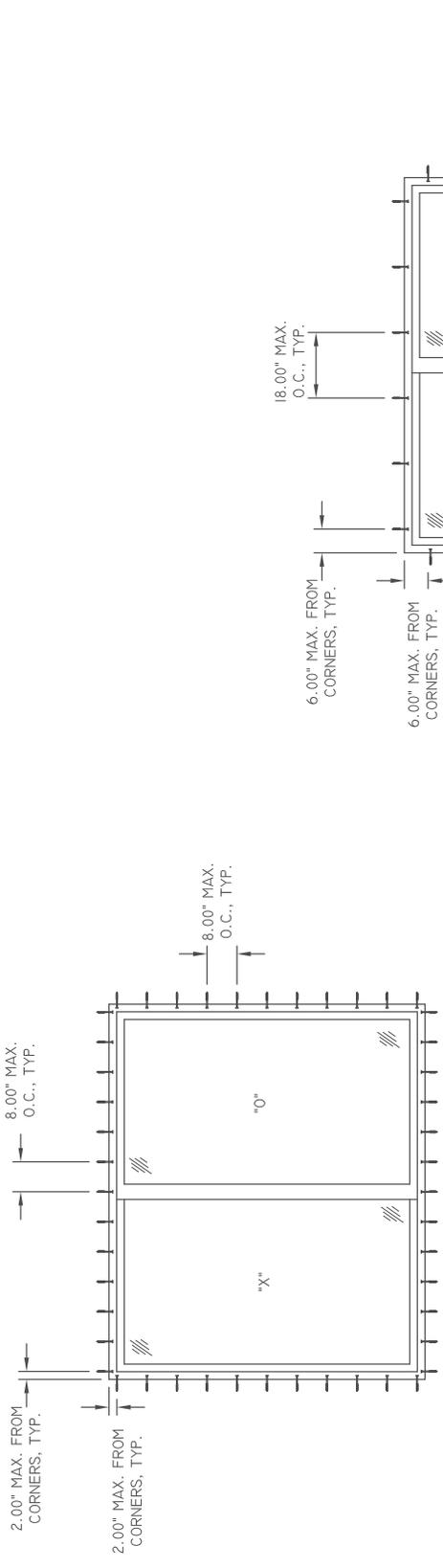


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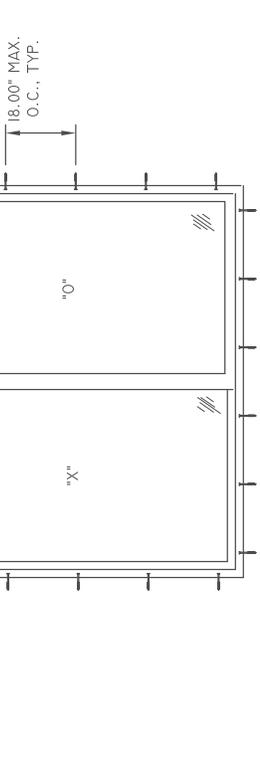
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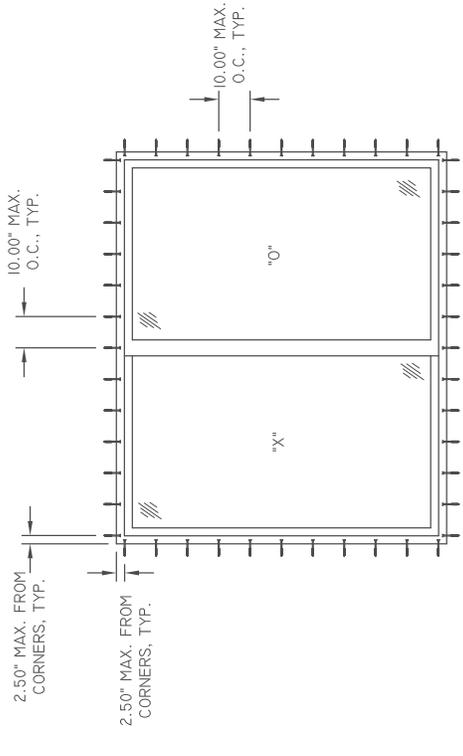
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ANCHOR LAYOUT
NAILING FIN



ANCHOR LAYOUT
THROUGH FRAME

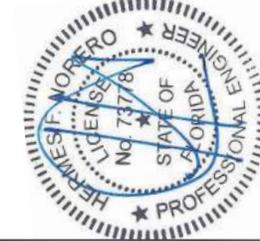


ANCHOR LAYOUT
NAILING FIN

*APPLICABLE ONLY TO 74.75" X 95.5" CONFIGURATION

NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 2010 CODE CHANGE	JLA	12.08.11
B	FBC 5TH ED. CODE CHANGE	SM	06.02.14
C	CERTIFICATION UPDATE	LS	09.01.16
D	UPDATED FOR 7TH EDITION (2020) FBC	LHM	01.10.22

DATE: 12.23.10
 DWN BY: MSS
 CHK BY: HFN
 SCALE: NTS



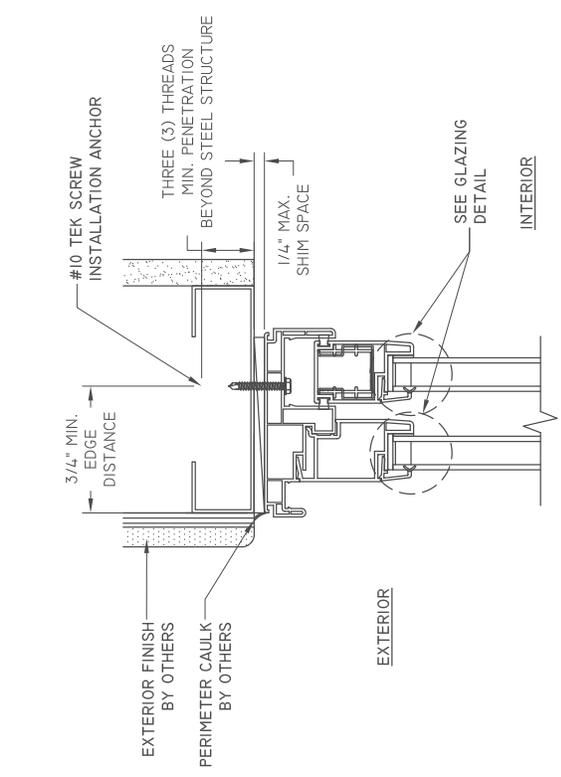
HERNIES F. NORERO, P.E.
 398 E. DANIA BEACH BLVD., # 338
 DANIA BEACH, FL 33004
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BUILDING DROPS, INC.
 338 E. DANIA BEACH BLVD., #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

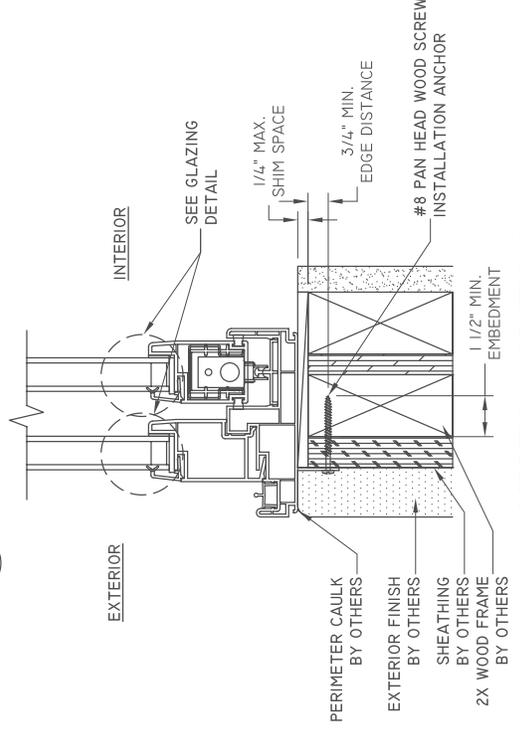
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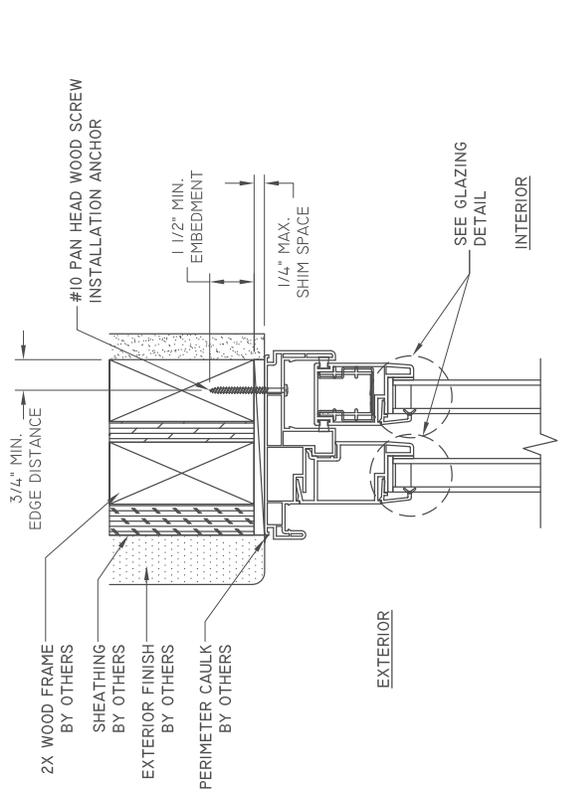
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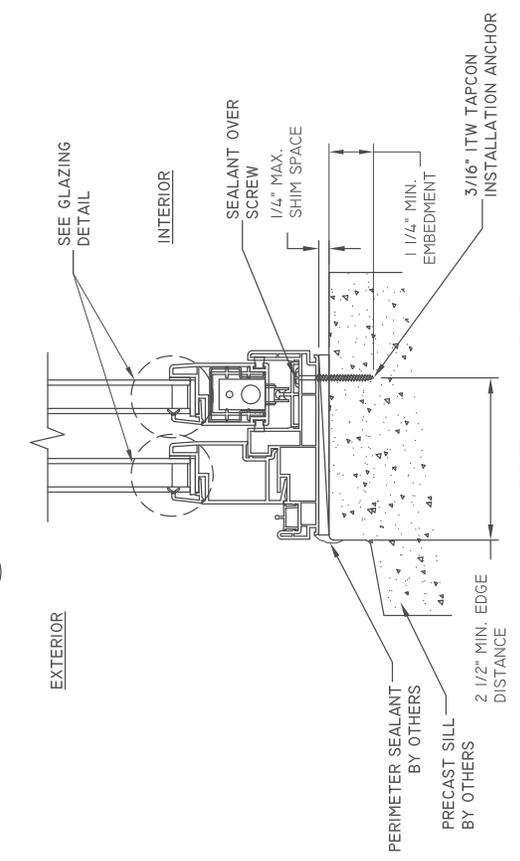
C VERTICAL SECTION
 4 STEEL STUD FRAME - HEAD



G VERTICAL SECTION
 4 2X WOOD FRAME - SILL
 ALTERNATE FIN INSTALLATION (TYP.)



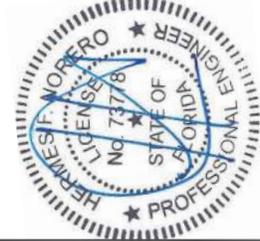
B VERTICAL SECTION
 4 2X WOOD FRAME - HEAD



A VERTICAL SECTION
 4 CONCRETE - SILL

D	NTS.	UPDATED FOR 7TH EDITION (2020) FBC	LHM	01.10.22
C	SCALE:	CERTIFICATION UPDATE	LS	09.01.16
B	CHK BY:	FBC 5TH ED. CODE CHANGE	SM	06.02.14
A	MSS	FBC 2010 CODE CHANGE	JLA	12.08.11
NO.	REVISION DESCRIPTION	BY	DATE	
TITLE: 311/312/378 VINYL SLIDING GLASS DOOR HORIZONTAL SECTIONS & GLAZING DETAIL				

HERNIES F. NOREPO, P.E.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
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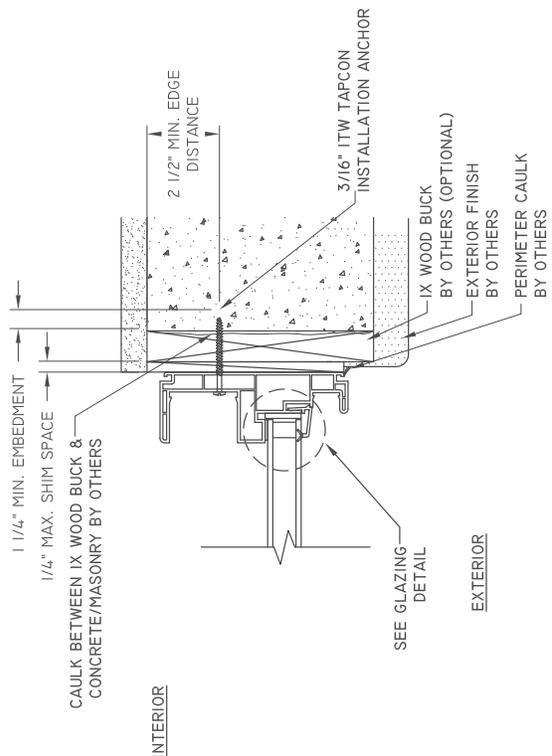


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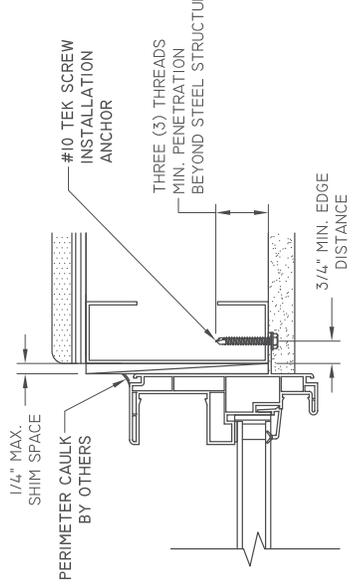
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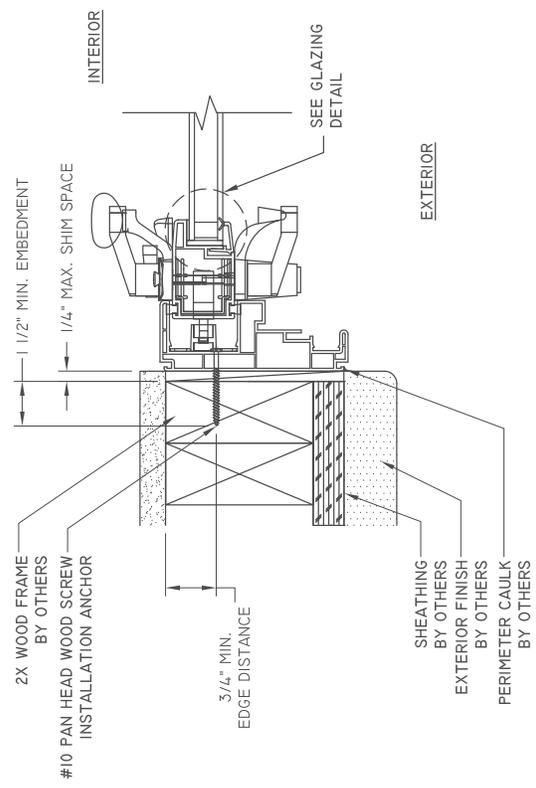
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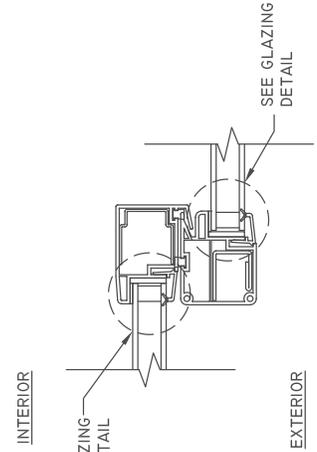
E HORIZONTAL SECTION
CONCRETE/MASONRY - JAMB



I HORIZONTAL SECTION
STEEL STUD - JAMB
ALTERNATE FIN INSTALLATION (TYP.)

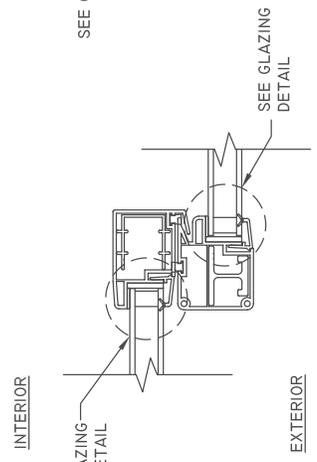


D HORIZONTAL SECTION
2X WOOD FRAME - JAMB



H HORIZONTAL SECTION
MEETING STILE
STEEL REINFORCEMENT

NOTE: CAN BE USED WITH ALL PANEL SIZES



F HORIZONTAL SECTION
MEETING STILE
ALUMINUM REINFORCEMENT

NOTE: FOR USE WITH PANEL SIZES UP TO 37.125" X 79.6875" WITH A DESIGN PRESSURE OF 35 PSF