



Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

FL #	FL30924-R1								
Application Type	Revision								
Code Version	2020								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Sunshine Windows Manufacturing Inc.								
Address/Phone/Email	1745 West 33rd Place Hialeah, FL 33012 (305) 364-9952 Ext 109 noel_m_2001@yahoo.com								
Authorized Signature	Jalal Farooq veronica@afceng.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Casement								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Jalal Farooq								
Florida License	PE-81223								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	02/28/2029								
Validated By	JAVAD AHMAD PE, INC. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL30924_R1_COI_SS - Certificate of Independence.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted 09/08/2020
Date Validated 09/16/2020
Date Pending FBC Approval 09/28/2020
Date Approved 12/16/2020

Summary of Products

FL #	Model, Number or Name	Description
30924.1	Series 2009 Aluminum Outswing Casement Window	Large missile impact resistant aluminum outswing casement window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-90 Other: See drawing 19-110F for span vs load combination and installation details.		Installation Instructions FL30924_R1_II_SS - S-2009 OS (LMI) DWG 19-110F (2020).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL30924_R1_AE_SS - 2009 CASEMENT (LMI) -PAE 2020.pdf Created by Independent Third Party: Yes
30924.2	Series 2009 Aluminum Outswing Casement Window	Non-impact resistant aluminum outswing casement window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +150/-150 Other: See drawing 19-114F for span vs load combination and installation details.		Installation Instructions FL30924_R1_II_SS - S-2009 OS (NI) DWG 19-114F (2020).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL30924_R1_AE_SS - 2009 CASEMENT (NI) -PAE 2020.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

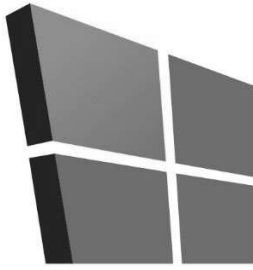
Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 11, 2020

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

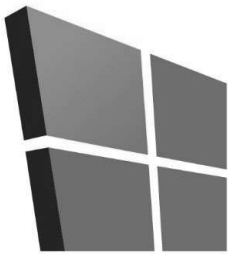
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Sealed 8-11-2020

Jalal Farooq, P.E.
CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 30924

Date: 8/31/2020

Detailed Product Description:


Manufacturer: SUNSHINE WINDOWS MANUFACTURING, INC.

Manufacturer Address: 1785 W 33 PLACE, HIALEAH, FL 33012

Model Name: SERIES 2009 ALUMINUM OUTSWING CASEMENT WINDOW

Maximum Load: +90 PSF, -90 PSF (Large Missile Impact)

Installation Drawings # 19-110F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.					
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.					
Comparative analysis used <u> X </u> Yes <u> </u> No					
Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)					
Test	Description	Test Location	Test Report Date	Test Report #	Test Sealed By
ASTM E283	Air Infiltration Leakage	Fenestration Testing Laboratory, Inc.	6/20/2019 9/19/2017 9/16/2008	FTL-10673 FTL-9455 FTL-5560	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Carlos Rionda, PE
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	6/20/2019 9/19/2017 9/16/2008	FTL-10673 FTL-9455 FTL-5560	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Carlos Rionda, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Fenestration Testing Laboratory, Inc.	6/20/2019 9/19/2017 9/16/2008	FTL-10673 FTL-9455 FTL-5560	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Carlos Rionda, PE
ASTM F588	Forced Entry	Fenestration Testing Laboratory, Inc.	6/20/2019 9/19/2017 9/16/2008	FTL-10673 FTL-9455 FTL-5560	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Carlos Rionda, PE
Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)					
Test	Description	Test Location	Test Report Date	Test Report#	Test Sealed By
FBC 1626.2 TAS 201 & 203	Large Missile Impact & Cyclic	Fenestration Testing Laboratory, Inc.	6/20/2019 9/19/2017 9/16/2008	FTL-10673 FTL-9455 FTL-5560	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Carlos Rionda, PE
Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2020 Florida Building Code.					
Evaluation Report Engineer: Jalal Farooq Al-Farooq Corporation			 Sealed: 9/8/20		
PE # 81223 EB # 3538					

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES-2009

ALUMINUM OUTSWING CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

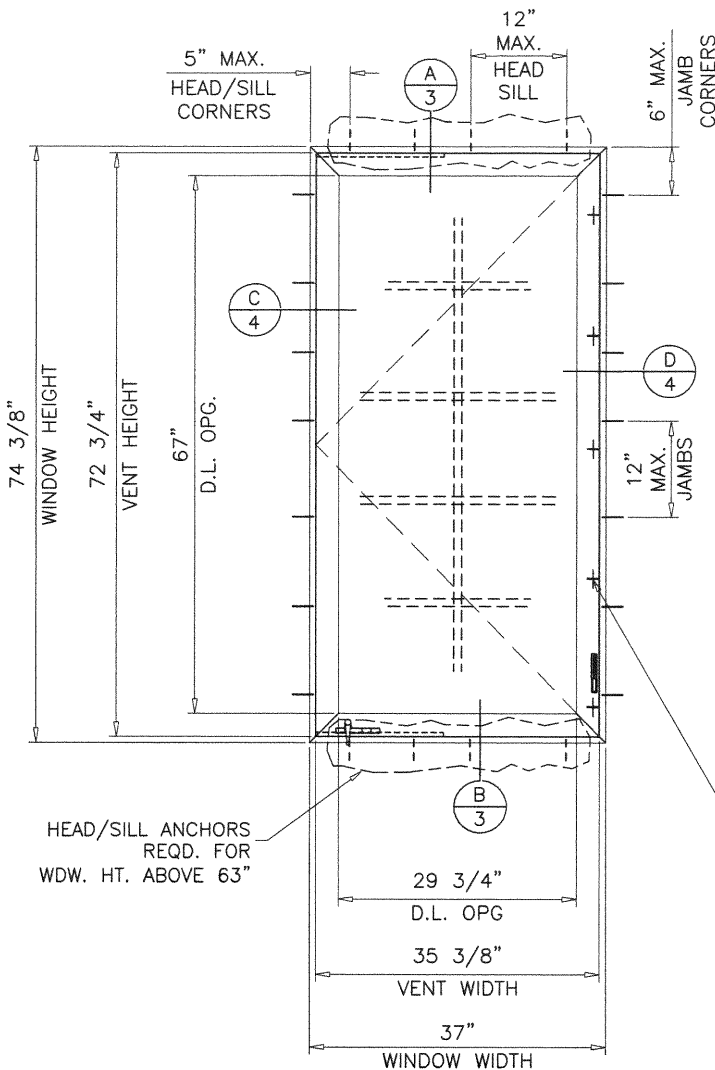
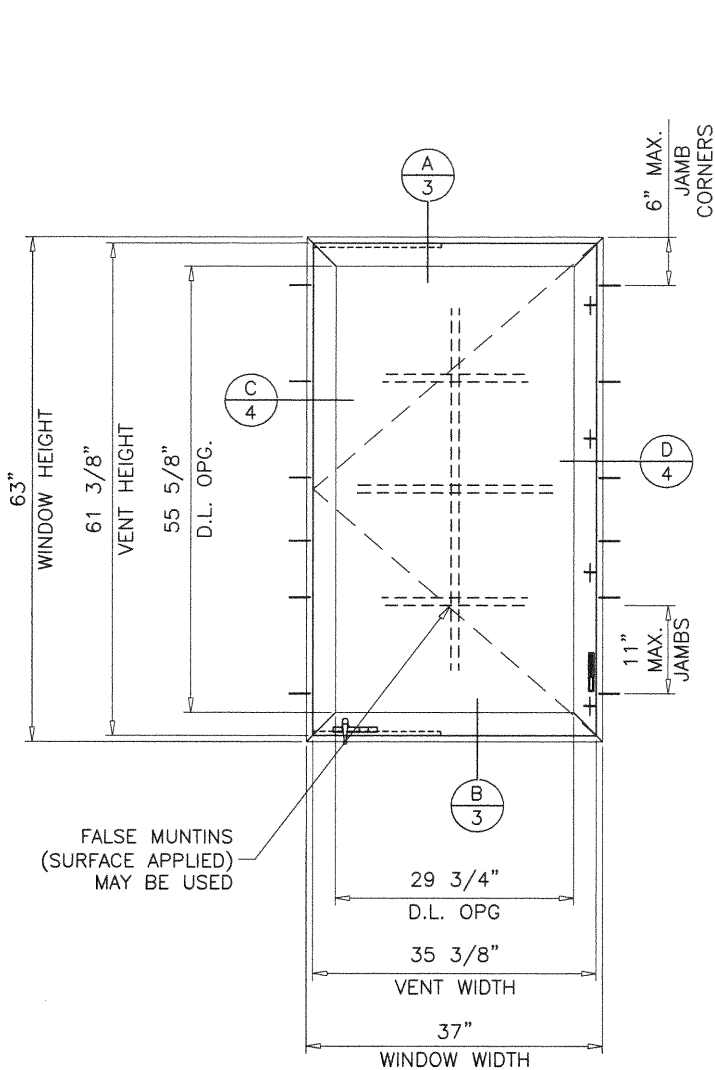
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATIONS
TESTED UNITS



5 POINT LOCK

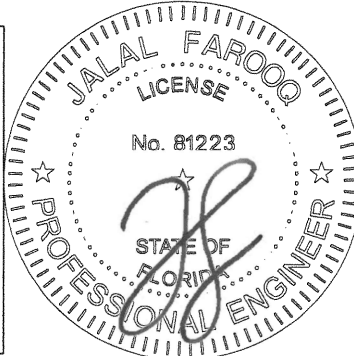
LOCKING POINTS
SEE CHART

WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH
26"	2
38-3/8"	3
50-5/8"	4
84"	5

LAMINATED GLASS
LARGE MISSILE IMPACT

Sealed: 9/1/20 FL #30924

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
(C.A.N. 3538)

S-2009 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

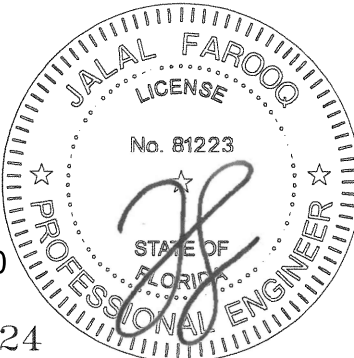
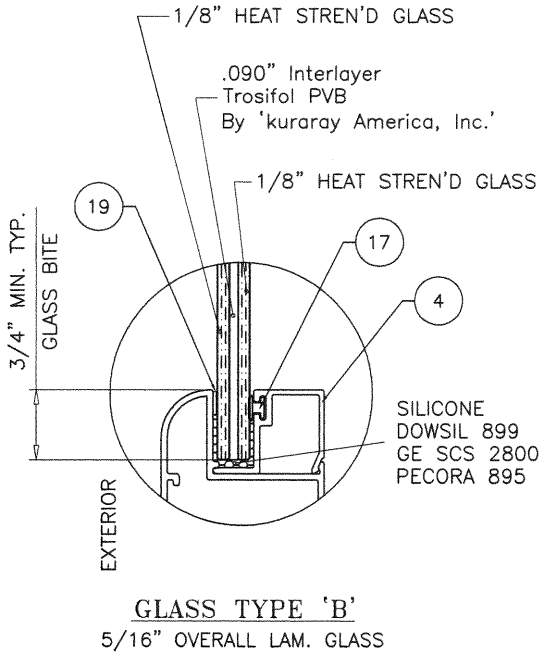
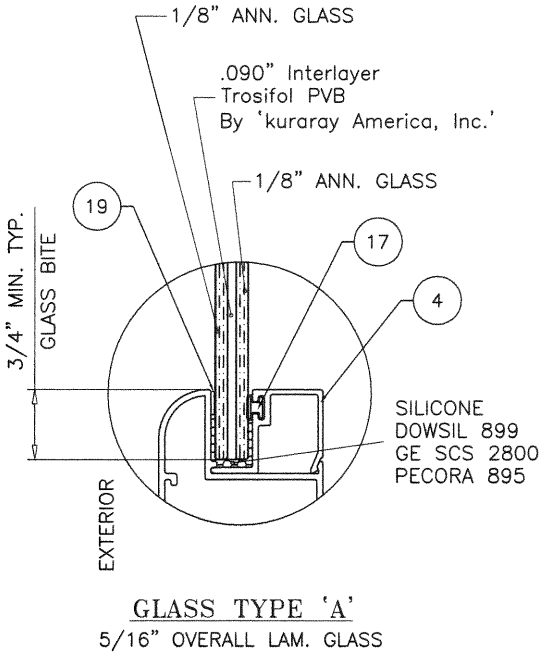
revisions:

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A	08.28.20		UPDATED TO 2020 FBC

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drawing no. 19-110F		sheet 1 of 6	


DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	26"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	38-3/8"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	50-5/8"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	56"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	63"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	74-1/4"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
37"		65.0	70.0	90.0	90.0
19-1/8"	82"	65.0	70.0	90.0	90.0
26-1/2"		65.0	70.0	90.0	90.0
18"	24"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
36"		65.0	70.0	90.0	90.0
42"		65.0	70.0	90.0	90.0
18"	36"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
36"		65.0	70.0	90.0	90.0
42"		65.0	70.0	90.0	90.0
18"	48"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
36"		65.0	70.0	90.0	90.0
42"		65.0	70.0	90.0	90.0
18"	60"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
36"		65.0	70.0	90.0	90.0
42"		65.0	70.0	90.0	90.0
18"	74"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
36"		65.0	70.0	90.0	90.0
18"	80"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0
18"	84"	65.0	70.0	90.0	90.0
24"		65.0	70.0	90.0	90.0
30"		65.0	70.0	90.0	90.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



Sealed: 9/1/20

FL #30924



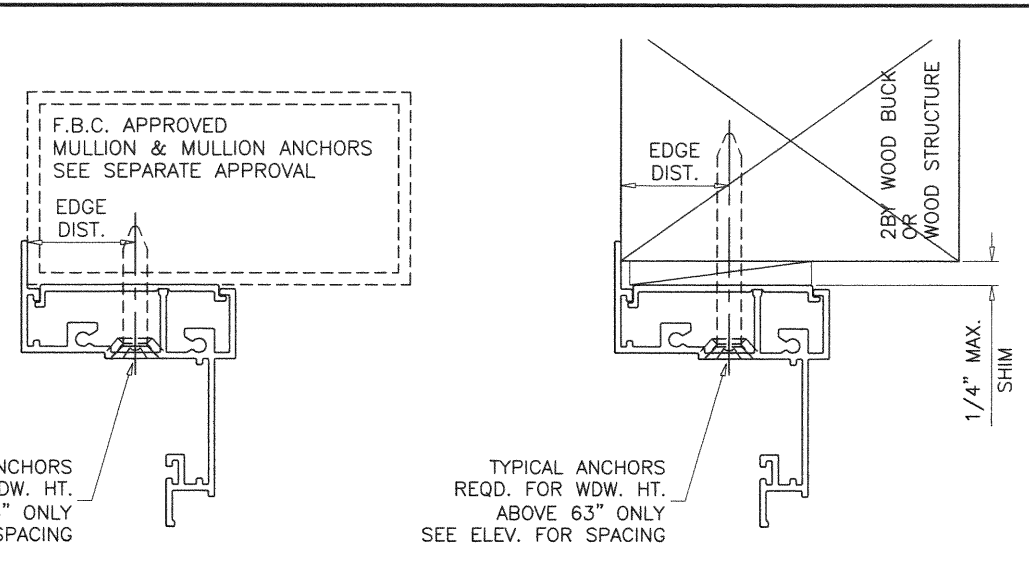
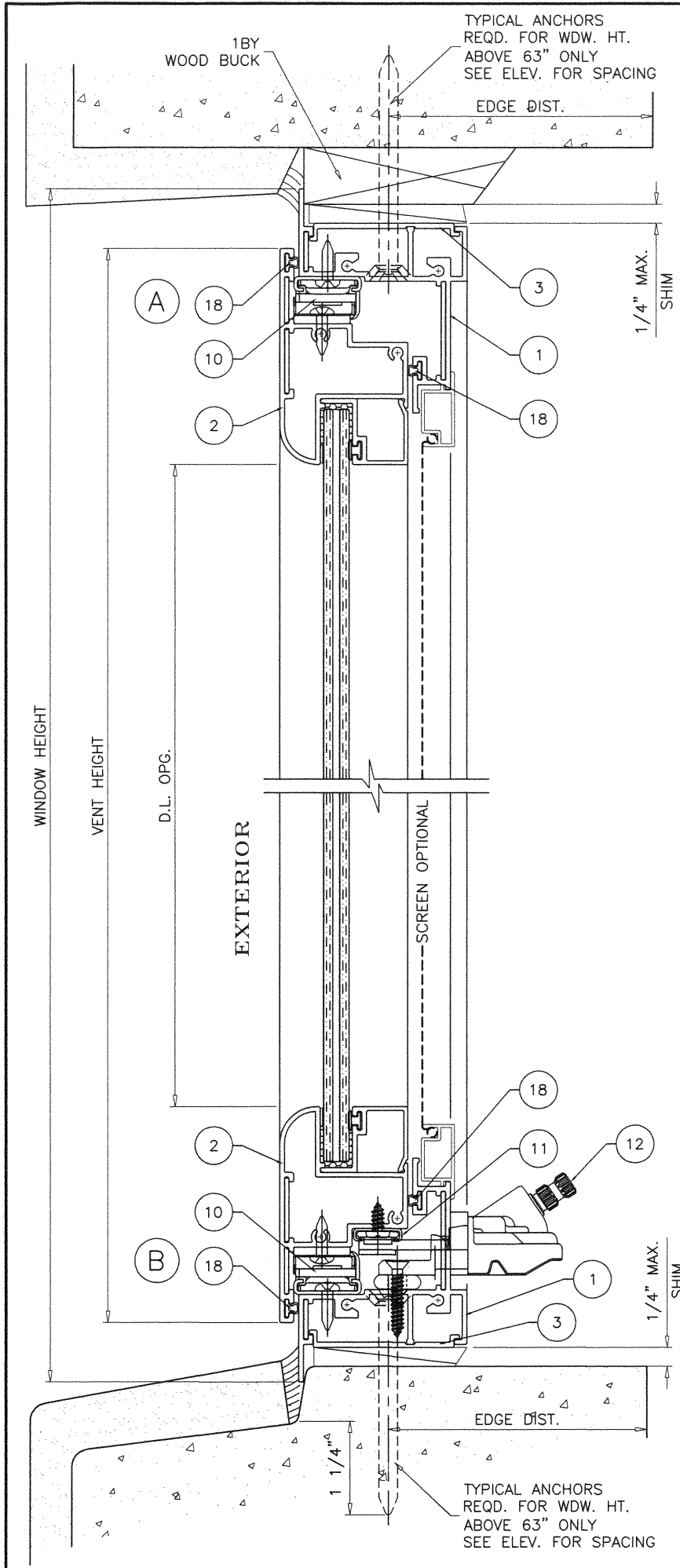
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL \ 19-110F-SWM

S-2009 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

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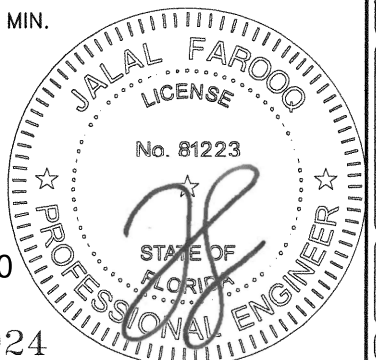
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sheet 2 of 6			



WOOD BUCKS AND METAL STRUCTURE NOT BY SUNSHINE WDWs. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



Sealed: 9/1/20

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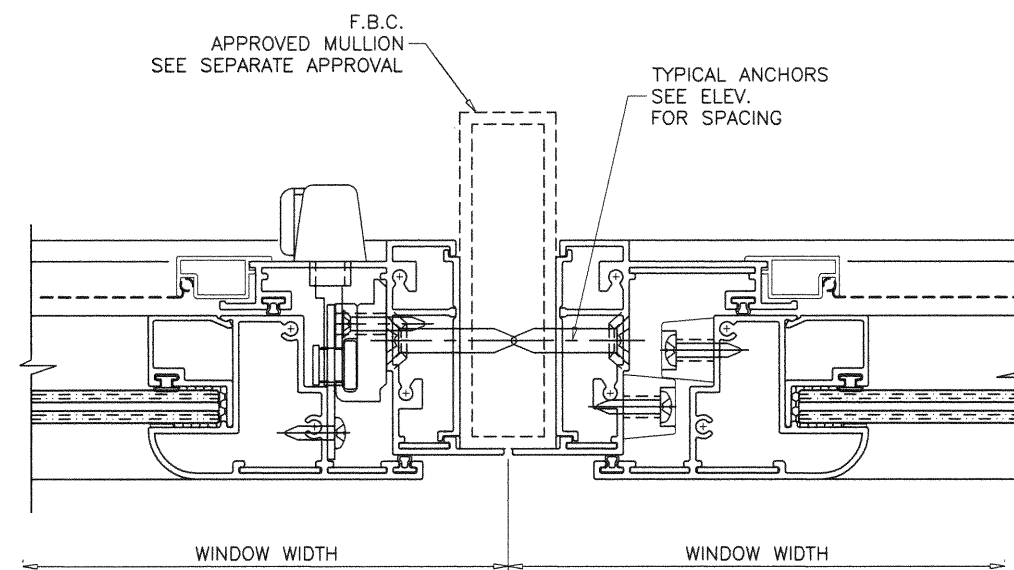
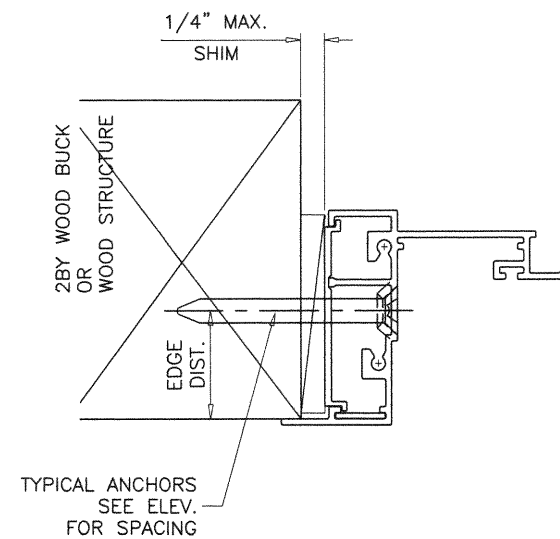
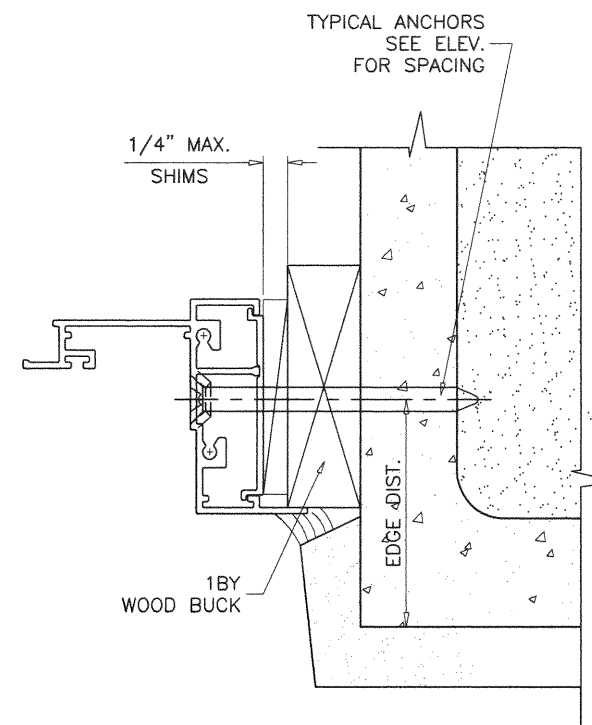
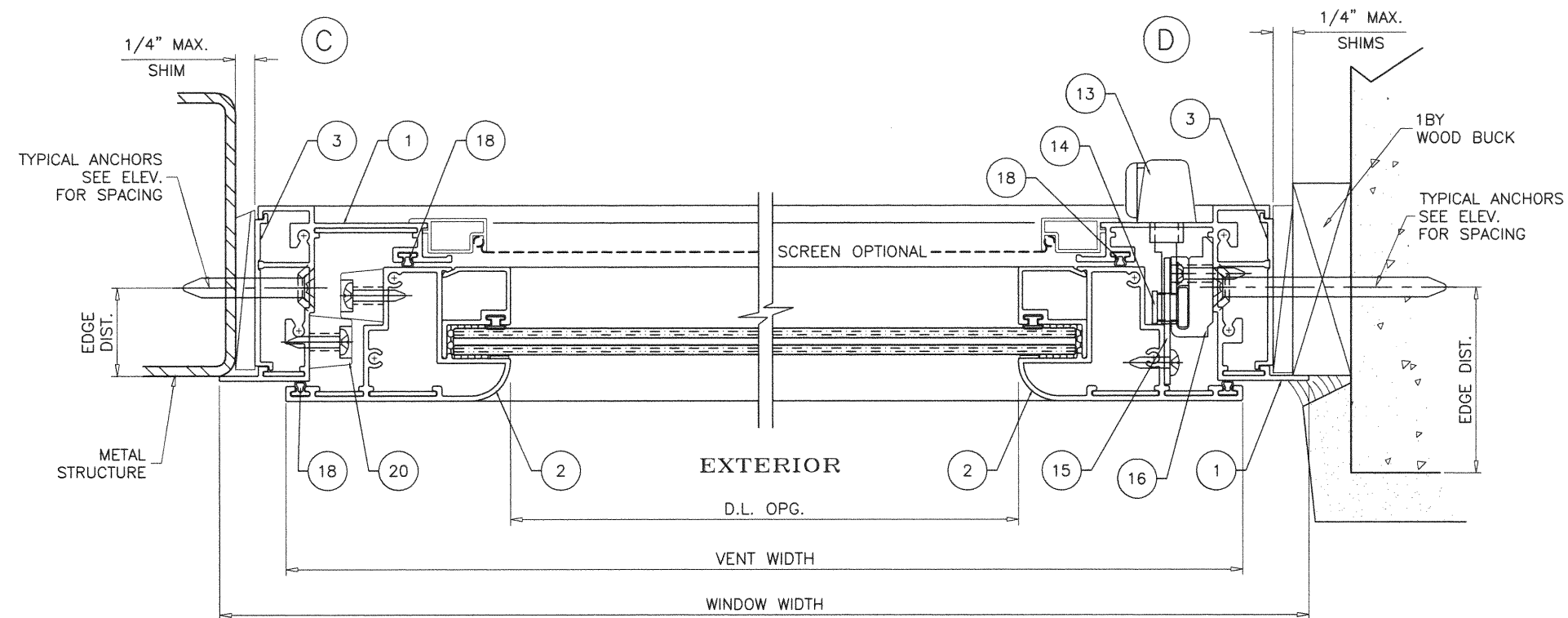
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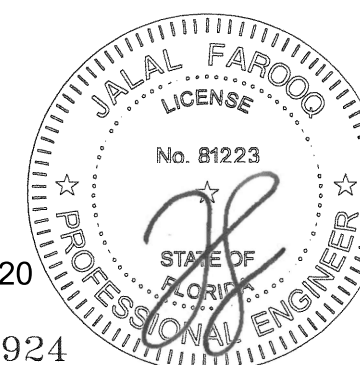
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19-110F
 sheet 3 of 6



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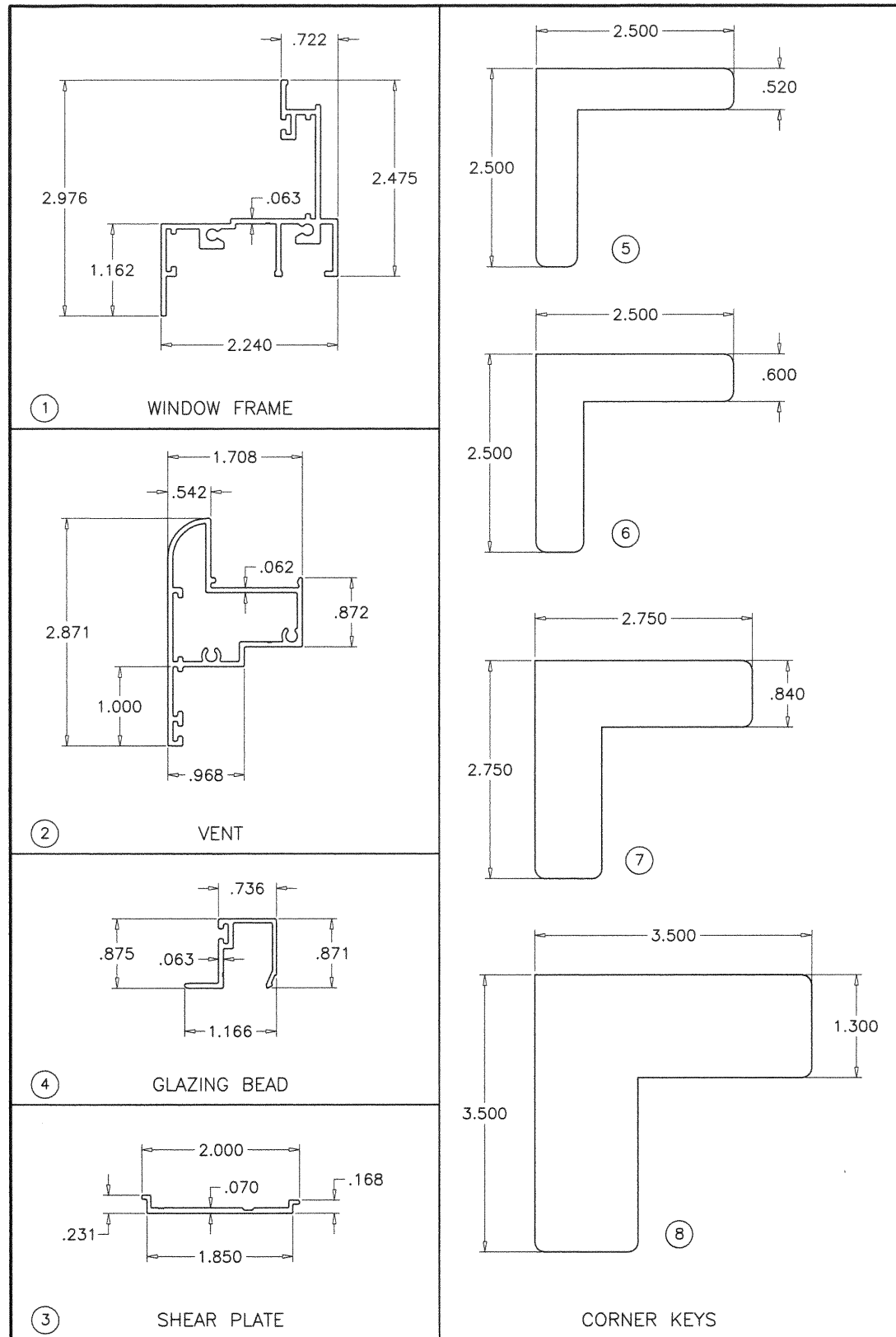
dr. by: TARIQ

chk. by:

drawing no.

19-110F

sheet 4 of 6



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050155	4	WINDOW FRAME	6063-T6	-
2	050154	4	VENT	6063-T6	-
3	051366	4	SHEAR PLATE	6063-T6	-
4	050158	4	GLAZING BEAD	6063-T6	-
5	PJS-45-SS	1/ CORNER	CORNER KEY (.058" THK.)	ST. STEEL	-
6	PJS-46-SS	1/ CORNER	CORNER KEY (.058" THK.)	ST. STEEL	-
7	PJS-47-SS	1/ CORNER	CORNER KEY (.058" THK.)	ST. STEEL	-
8	PJS-48-SS	1/ CORNER	CORNER KEY (.058" THK.)	ST. STEEL	-
9	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY FASTENERS	CRS	P.H. SMS
10	304CJ200	2/ VENT	4 BAR HINGE, AT TOP & BOTTOM	ST. STEEL	TRUTH
11	CS-100T-SS	2/ VENT	TRACK	ST. STEEL	TRUTH
12	CS-OP950	1	SINGLE ARM OPERATOR	STEEL	TRUTH
13	CS-210	1	MULTI POINT LOCK SYSTEM	ZAMAK	TRUTH
14	CS-TB	1	TIE BAR	STEEL	TRUTH
15	CS-350-EG	AS REQD.	KEEPERS	STEEL	TRUTH
16	CS-20320	AS REQD.	TIE BAR GUIDE	NYLON	ULTRA HARDWARE
17	2534	AS REQD.	GLAZING VINYL, DUROMETER 75±5 SHORE A	PVC	MELTPOINT PLASTICS
18	83001	AS REQD.	BULB W'STRIPPING, DUROMETER 75±5 SHORE A	VINYL	MELTPOINT PLASTICS
19	750	AS REQD.	DOUBLE FACE GLAZING TAPE	PE FOAM	ZIALOC
20	ATP-037	AS REQD.	SNUBBERS	NYLON	AMERICAN TOOLS
-	-	-	-	-	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE-MOREHEAD SM5504 SEAM SEALER.

LOCKS:

MULTIPOINT LOCK SYSTEM BY 'TRUTH'
AT FRAME JAMB
LOCK OPERATOR AT 10" FROM SILL
FASTENED TO JAMBS WITH (2) #8 X 3/8" PH SMS.
LOCK BAR SECURED TO JAMB WITH NYLON LOCK GUIDES
SPACED AT 12" O.C. MAX.
EACH GUIDE FASTENED WITH (2) #8 X 1" PH SELF DRILLING SCREWS

STAINLESS STEEL KEEPERS AT VENT
EACH FASTENED WITH (2) #8 X 1/2" PH SMS
SEE CHART ON SHEET 1 FOR QUANTITIES

HINGES:

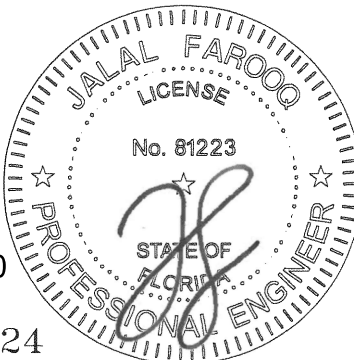
4 BAR ST/ST HINGES BY 'TRUTH'
LOCATED AT TOP AND BOTTOM CORNERS
FASTENED WITH (3) #10 X 1/2" RH SELF DRILLING SCREWS

OPERATOR:

SINGLE ARM ROTO OPERATOR BY 'TRUTH'
LOCATED AT SILL END
FASTENED WITH (4) #10 X 3/8" RH SMS
OPERATOR TRACK AT BOTTOM RAIL
FASTENED WITH (3) #8 X 1" PH SELF DRILLING SCREWS

SNUBBERS:

NYLON SNUBBERS AT 10" FROM TOP AND BOTTOM
AND AT MIDSPAN
EACH FASTENED WITH (2) #8 X 1" PH SELF DRILLING SCREWS



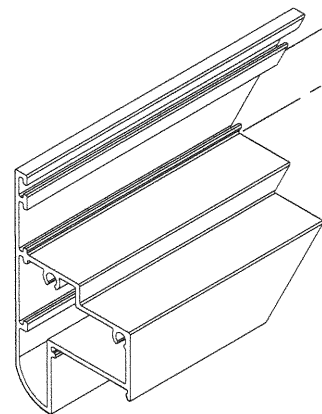
Sealed: 9/1/20

FL #30924

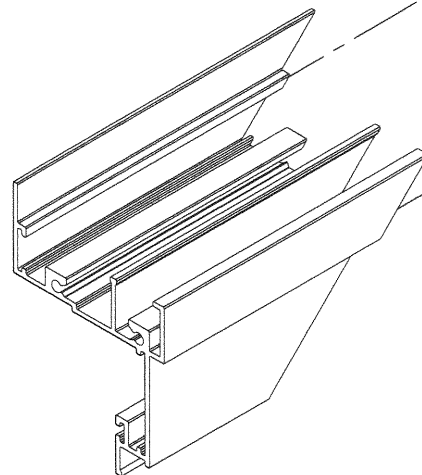
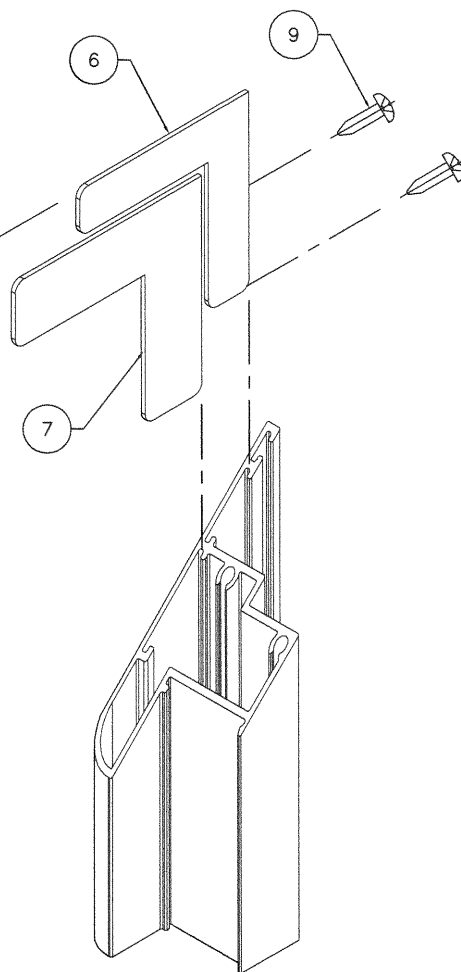
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-110F-SWM

S-2009 ALUM OUTSWING CASEMENT WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

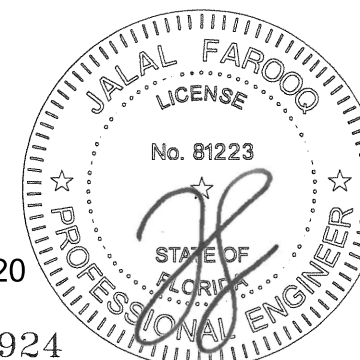
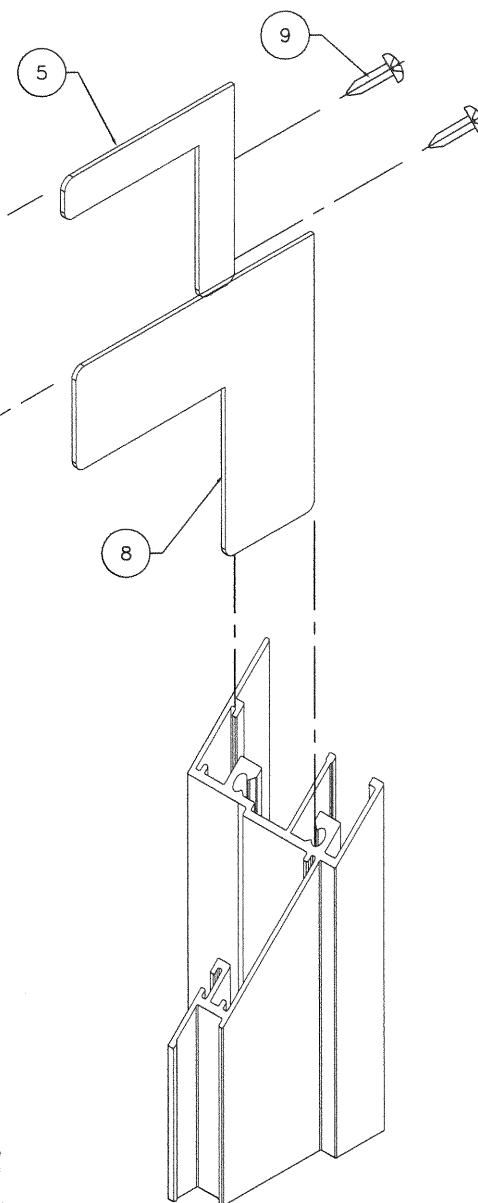
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no date by description
10-23-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no.
19-110F
sheet 5 of 6



VENT CORNER




FRAME CORNER



Sealed: 9/1/20

FL #30924



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sheet 6 of 6