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Product Approval
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 Application Detail



<p>FL #</p> <p>Application Type</p> <p>Code Version</p> <p>Application Status</p> <p>Comments</p> <p>Archived</p> <p>Product Manufacturer</p> <p>Address/Phone/Email</p> <p>Authorized Signature</p> <p>Technical Representative</p> <p>Address/Phone/Email</p> <p>Quality Assurance Representative</p> <p>Address/Phone/Email</p> <p>Category</p> <p>Subcategory</p> <p>Compliance Method</p> <p>Florida Engineer or Architect Name who developed the Evaluation Report</p> <p>Florida License</p> <p>Quality Assurance Entity</p> <p>Quality Assurance Contract Expiration Date</p> <p>Validated By</p> <p>Certificate of Independence</p> <p>Referenced Standard and Year (of Standard)</p> <p>Equivalence of Product Standards Certified By</p> <p>Sections from the Code</p>	<p>FL20383-R4</p> <p>Revision</p> <p>2023</p> <p>Approved</p> <p>E.S. Windows, Inc.</p> <p>10653 NE Quaybridge Ct.</p> <p>Miami, FL 33138</p> <p>(305) 624-7775</p> <p>achamorro@eswllc.com</p> <p>Jalal Farooq</p> <p>veronica@afceng.com</p> <p>Samir Sabagh</p> <p>3550 NW 49th St.</p> <p>Miami, FL 33142</p> <p>(305) 638-5151</p> <p>ssabagh@energiasolarsa.com</p> <p>Windows</p> <p>Horizontal Slider</p> <p>Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer</p> <p><input type="checkbox"/> Evaluation Report - Hardcopy Received</p> <p>Jalal Farooq</p> <p>PE-81223</p> <p>Keystone Certifications, Inc.</p> <p>07/16/2025</p> <p>Abel Carrasco, PE</p> <p><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received</p> <p>FL20383_R4_COI_SS - Certificate of Independence 2023.pdf</p> <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								

FL-20383.1

Product Approval Method Method 1 Option D

Date Submitted 10/20/2023

Date Validated 10/22/2023

Date Pending FBC Approval 10/30/2023

Date Approved 12/13/2023

Summary of Products

FL #	Model, Number or Name	Description
20383.1	Series ES-SW340 Thermal Aluminum Horizontal Sliding Window	Large missile impact resistant thermal aluminum sliding window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-90 Other: See attached drawing W16-23 for size vs load combinations and installation details.		Installation Instructions FL20383 R4 II SS - ES-SW340 Thermal HS (LMI)-DWG W16-23 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL20383 R4 AE SS- ES-SW340 Thermal HS (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
20383.2	Series ES-SW340 Thermal Aluminum Horizontal Sliding Window	Small missile impact resistant thermal aluminum sliding window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-110 Other: See attached drawing W16-24 for installation details.		Installation Instructions FL20383 R4 II SS - ES-SW340 Thermal HS (SMI) - DWG W16-24 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL20383 R4 AE SS- ES-SW340 Thermal HS (SMI)-PAE 2023.pdf Created by Independent Third Party: Yes

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Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Credit Card
Safe



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

ES-SW340 (L.M.I.)

THERMAL ALUMINUM HORIZONTAL SLIDING WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZ. SLIDING 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 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1 BY OR 2 BY 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 MANUFACTURER'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 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

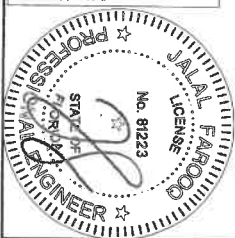
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

Sealed: 10/20/2023

FL #20383

- 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 WHO 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 SEAL SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



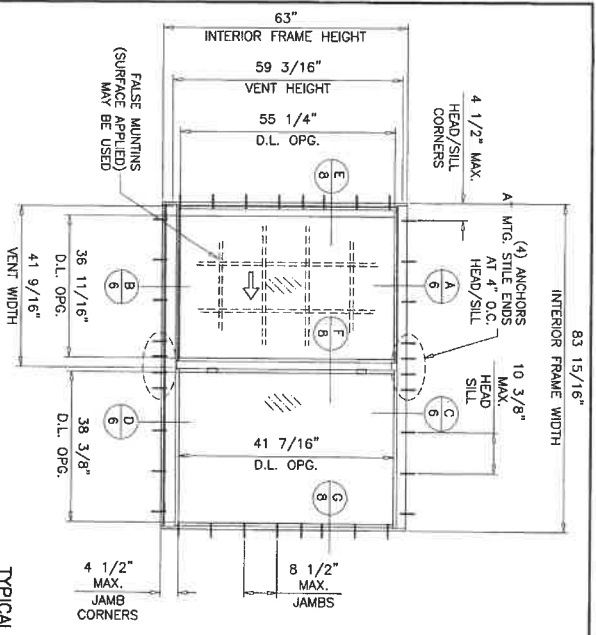
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

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

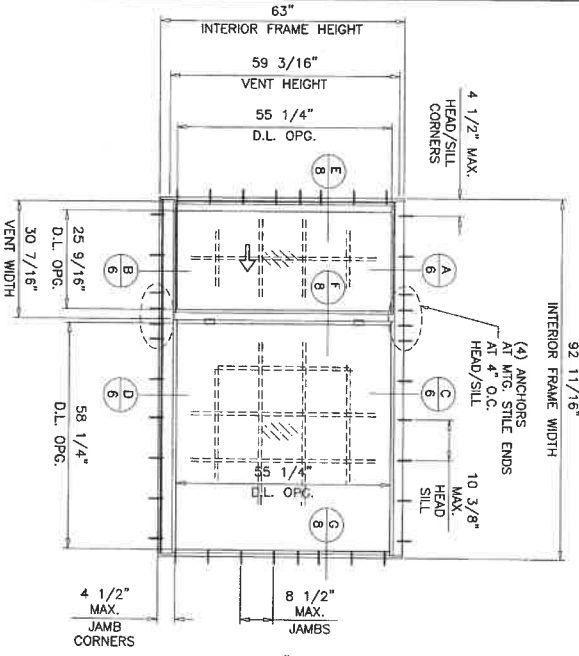
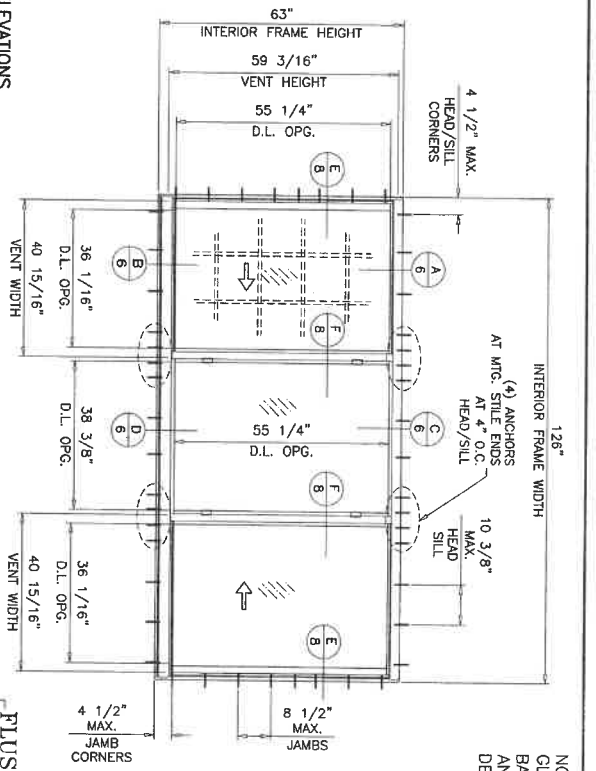


revisions:			
no	date	by	description
A	02.07.18		UPDATED TO 2017 FBC
B	10.30.20		UPDATED TO 2020 FBC
C	04.02.21		NAIL FIN OPTION ADDED
D	10.06.23		UPDATED TO 2023 FBC

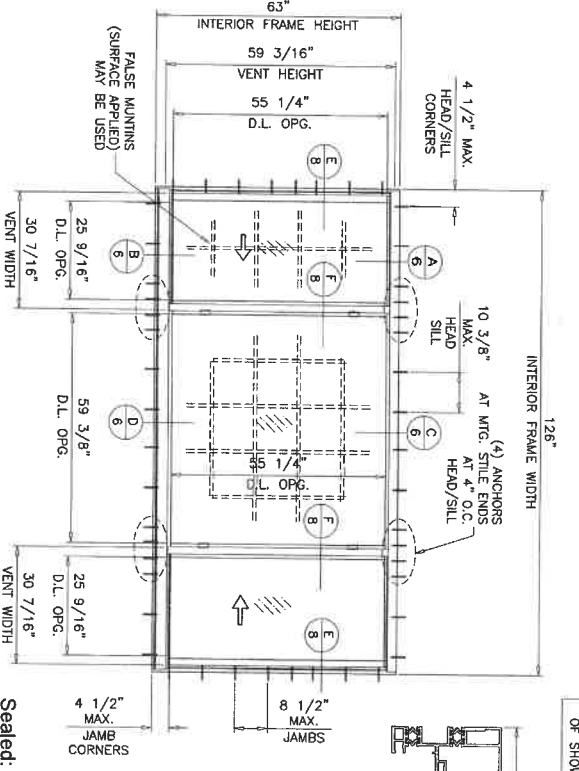
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 dr. by: TARIQ
 chk. by:
 drawing no. **W16-23**
 sheet 1 of 14



TYPICAL ELEVATIONS
(EQUAL LITES)



TYPICAL ELEVATIONS
(UNEQUAL LITES)

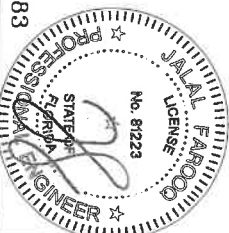


NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

FLUSH FRAMES
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR SIZES SHOWN OR SMALLER)
- 90.0 PSF
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES
OF SHOWN ELEVATIONS.



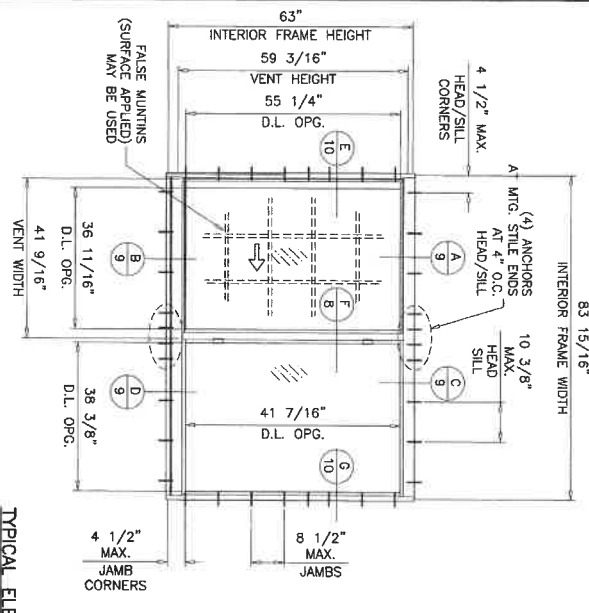
Sealed: 10/20/2023
FL #20383



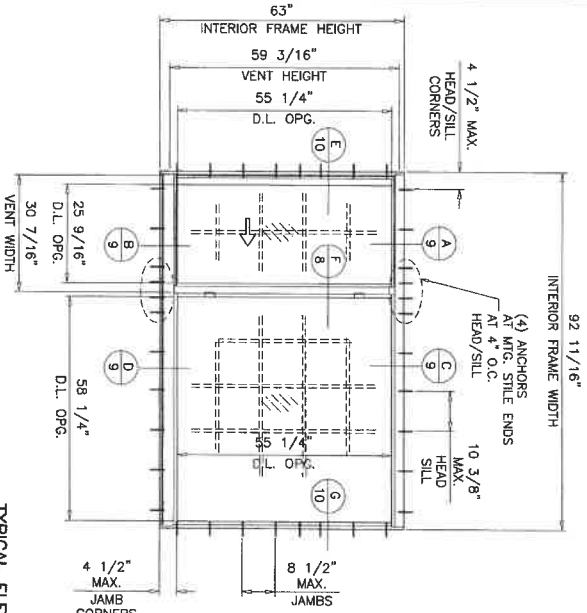
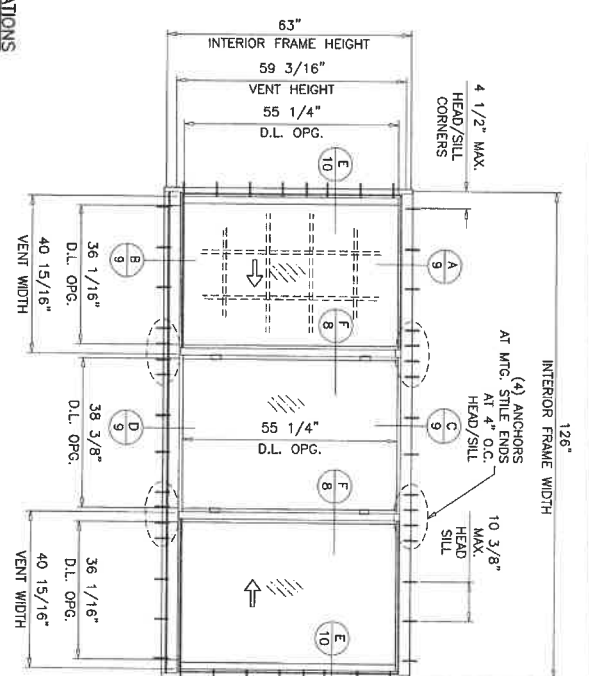
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dr. by: TARIQ	
chk. by:	

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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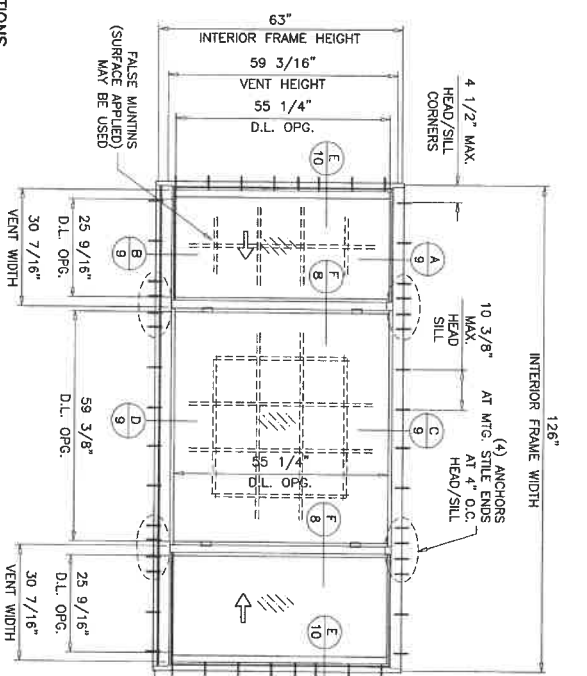
AL-FAROOQ CORPORATION	a f c
ENGINEERS & PRODUCT DEVELOPMENT	
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MIAMI, FLORIDA 33173 (C.A.N. 3538)	
TEL. (305) 264-8100 FAX. (305) 262-6978	



TYPICAL ELEVATIONS
(EQUAL LITES)



TYPICAL ELEVATIONS
(UNEQUAL LITES)

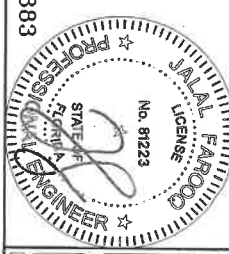


FLANGE FRAMES
 MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
 (FOR SIZES SHOWN OR SMALLER)
 ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES
 OF SHOWN ELEVATIONS.



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

Sealed: 10/20/2023
 FL #203383



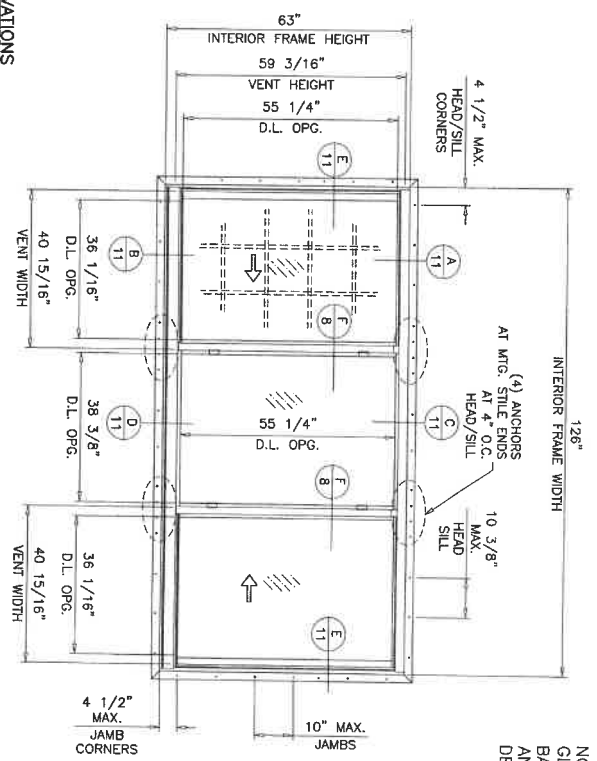
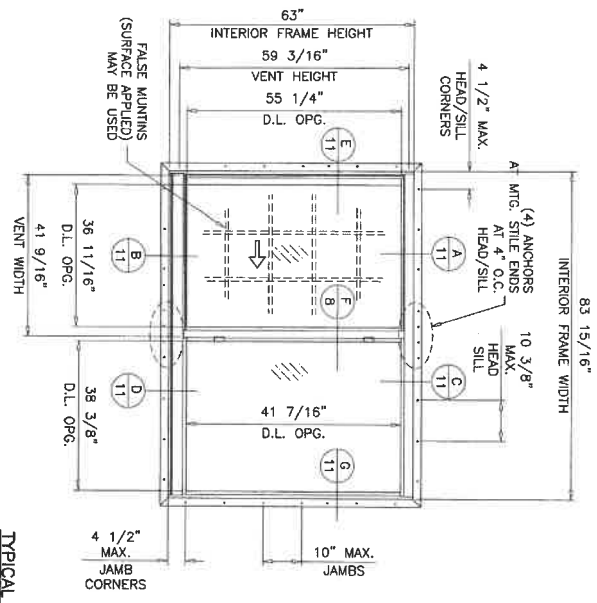
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chk. by:	

revisions:	
no	date by description

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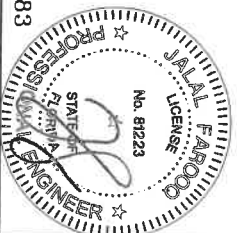
TYPICAL ELEVATIONS
(EQUAL LINES)

FIN FRAMES
MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR SIZES SHOWN OR SMALLER)
- 75.0 PSF
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES OF SHOWN ELEVATIONS.



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

Sealed: 10/20/2023
FL #20383

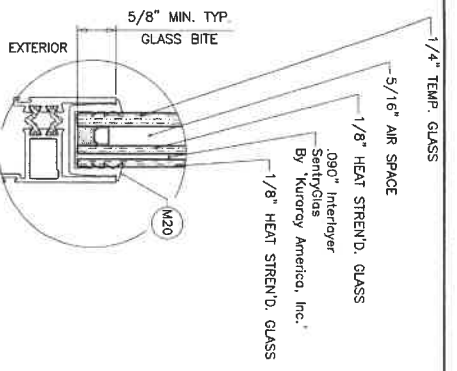


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chk. by:	

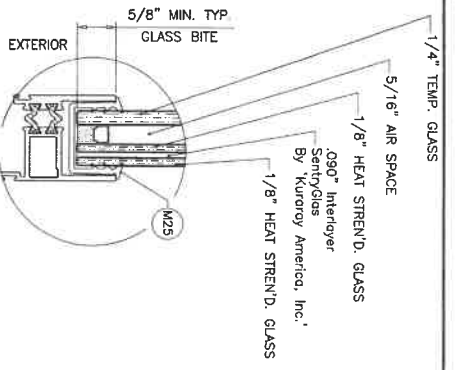
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W16-23-ES

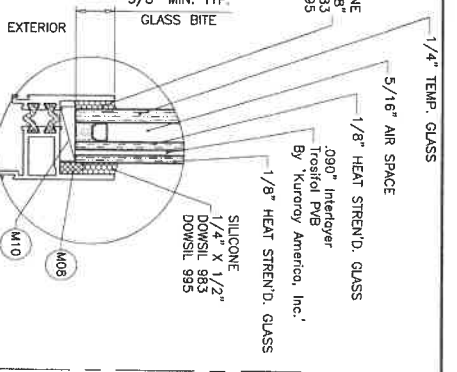
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drawing no. W16-23



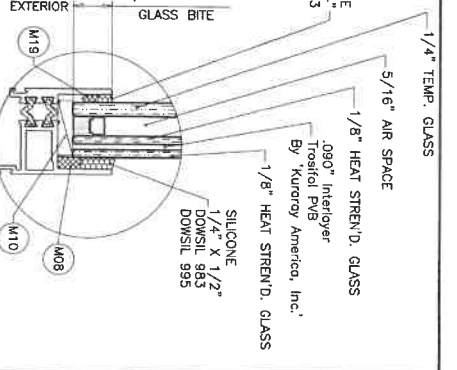
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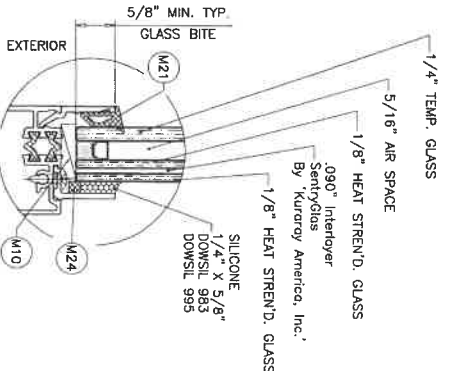
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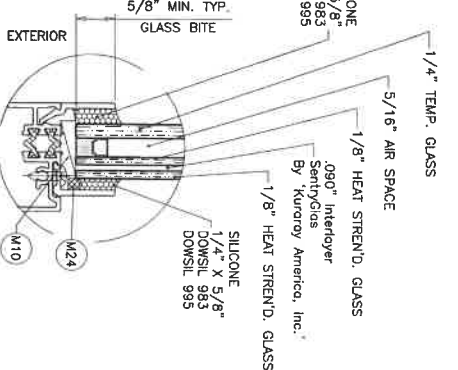
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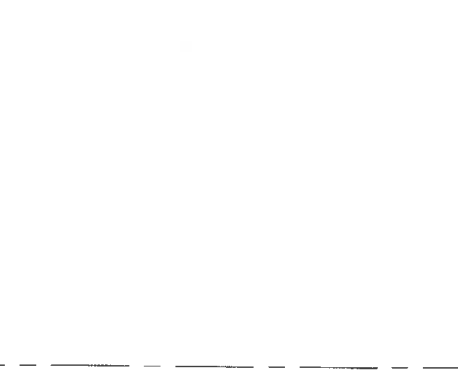
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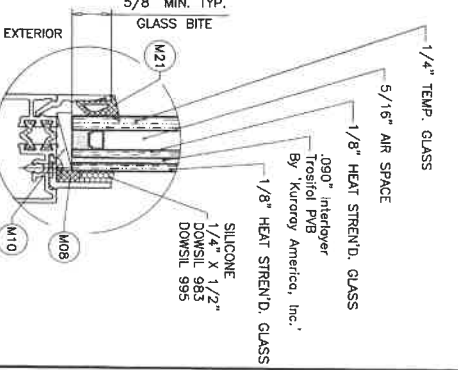
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(EQUAL & UNEQUAL LITES)
 (MAX. DESIGN LOAD = +80.0, -90.0 PSF)



(EQUAL & UNEQUAL LITES)
 (MAX. DESIGN LOAD = +80.0, -90.0 PSF)



(EQUAL LITES ONLY)
 (MAX. DESIGN LOAD = +70.0, -75.0 PSF)

GLAZING DETAILS
 7/8" OVERALL INSUL. LAM. GLASS

5/16" AIR SPACE CONSISTING OF:
 SPACER:
 "HELIMA" LOW PROFILE ALUMINUM SPACER
 BY "LINGERMANN GMBH"
 AROUND THE PERIMETER OF THE GLASS.
 PERIMETER SEALANT:
 SILICONE
 DOWSIL 791
 GE 2000

Sealed: 10/20/2023
 FL #20388

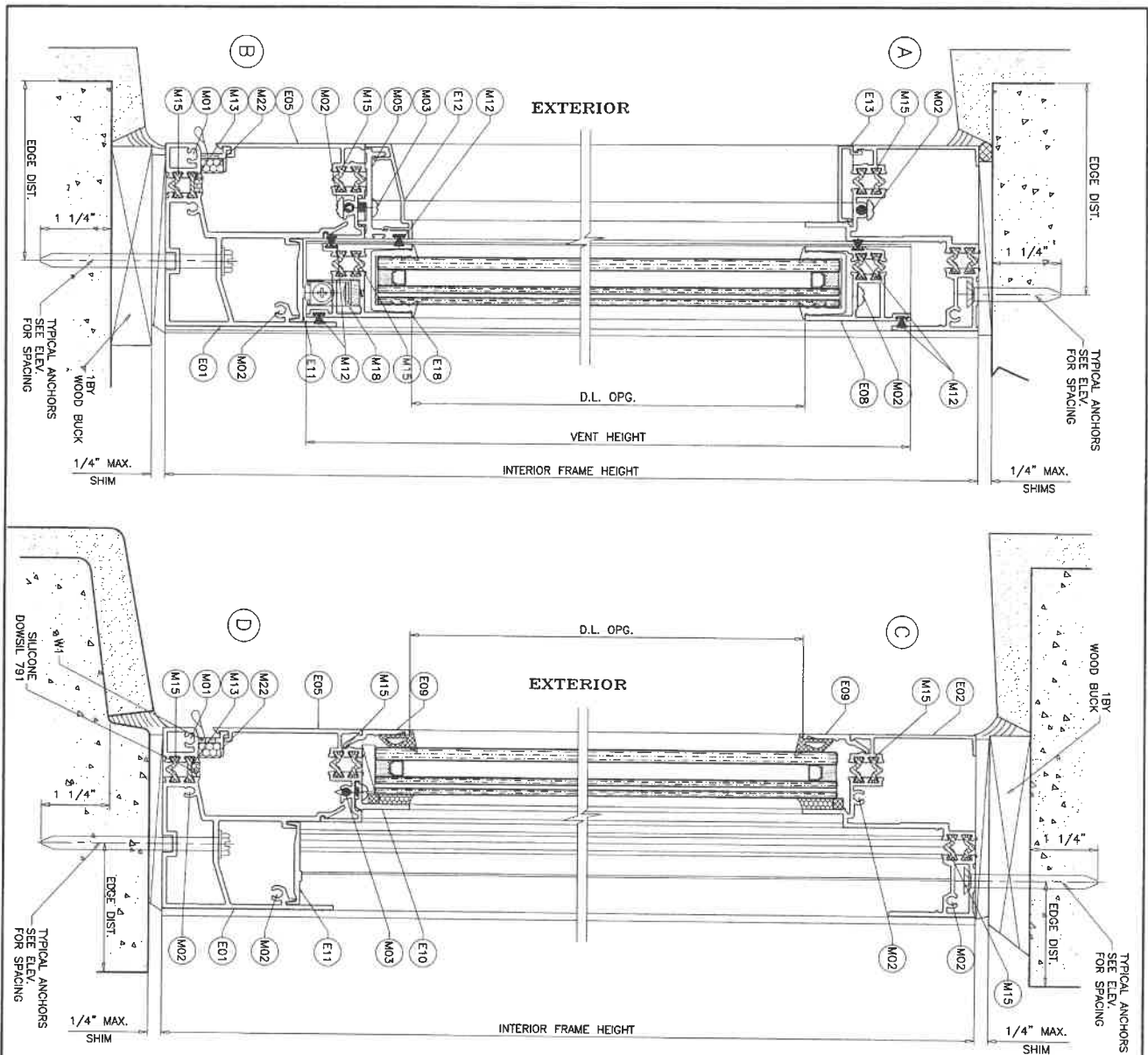
drawing no.	W16-23
sheet	5 of 14

revisions:		
no	date	by description

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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WEEPHOLES:
 W1 = (2) 3/16" X 2" WEEPHOLES AT EACH VENT
 (2) 3/16" X 2" WEEP HOLES AT FIX. LTE

Sealed: 10/20/2023
 FL #20383

Sheet 6 of 14	drawing no. W16-23	date: 04-19-16	revisions:		ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3638) TEL. (305) 264-8100 FAX. (305) 262-6978	
		scale: 1/2" = 1"	no.	date			
		dr. by: TARIO					
		chk. by:					

WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACINGS

#14 DIA. CRETE-FLEX SS4 BY 'DEWALT' (F_u=190 KSI, F_y=127 KSI)

1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT' (F_u=96 KSI, F_y=57 KSI)

1/4" DIA. ULTRACON-4 BY 'DEWALT' (F_u=164 KSI, F_y=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)

1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

1/4" DIA. ULTRACON-SS4 410 BY 'DEWALT' (F_u=190 KSI, F_y=164 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)

1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT' (F_u=96 KSI, F_y=57 KSI)

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. (F_y = 36 KSI MIN.)

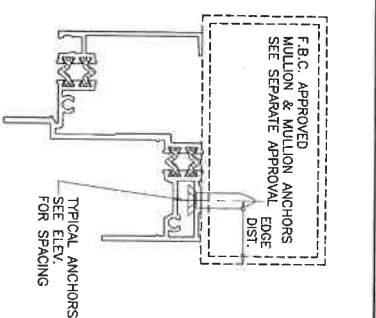
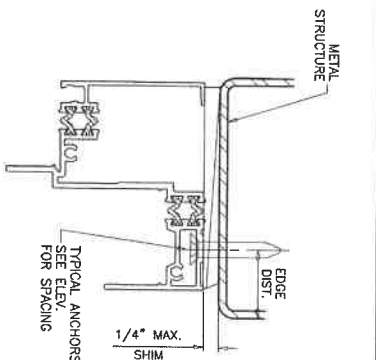
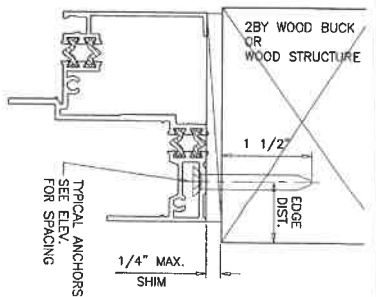
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

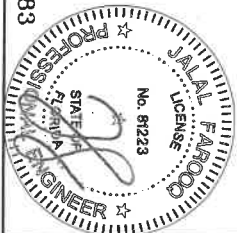
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.



Sealed: 10/20/2023

FL #20383



date: 04-19-16	revisions:
scale: 1/2" = 1"	no. date by description
dr. by: TARIQ	
chk. by:	

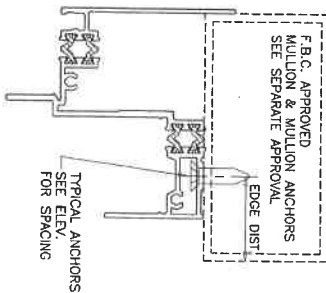
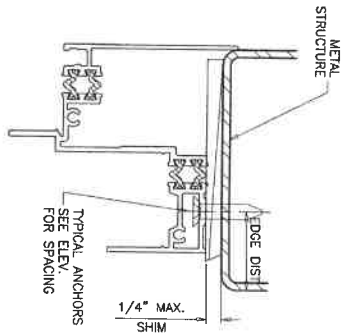
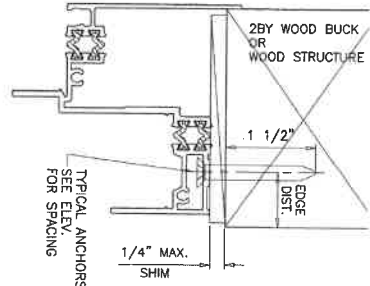
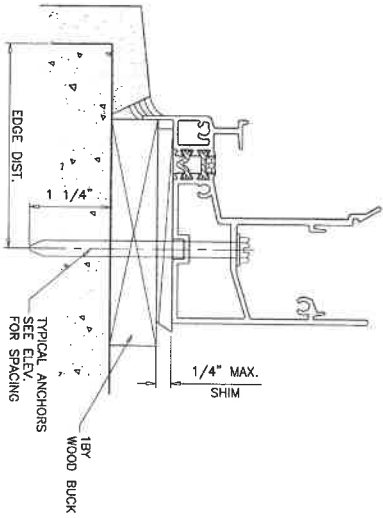
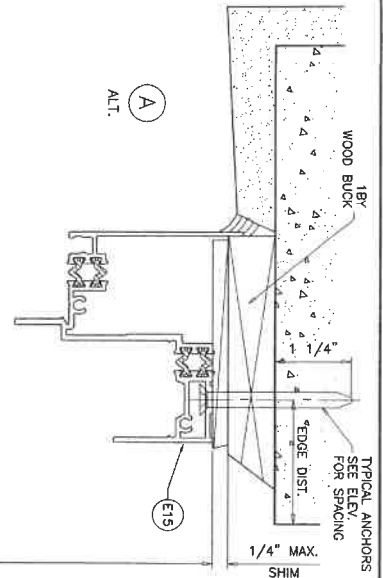
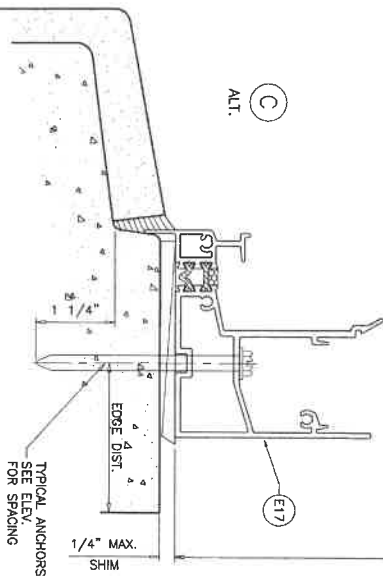
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

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

a f c

COMP-ANL\W16-23-ES

EXTERIOR

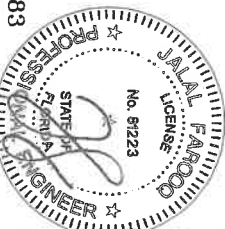


INSTALLATION DETAILS FLANGE FRAMES

SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

Sealed: 10/20/2023

FL #203883

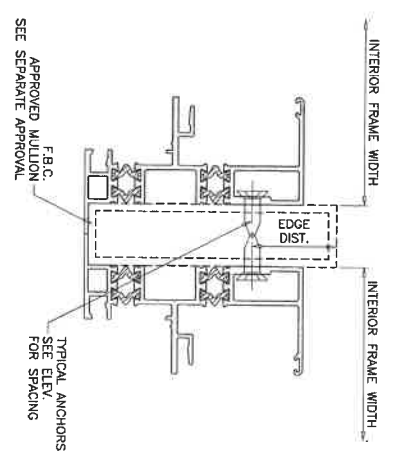
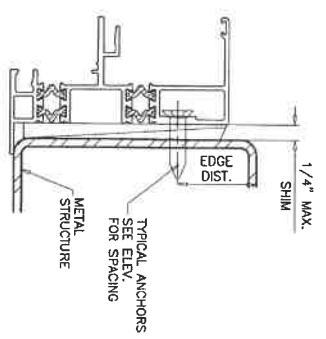
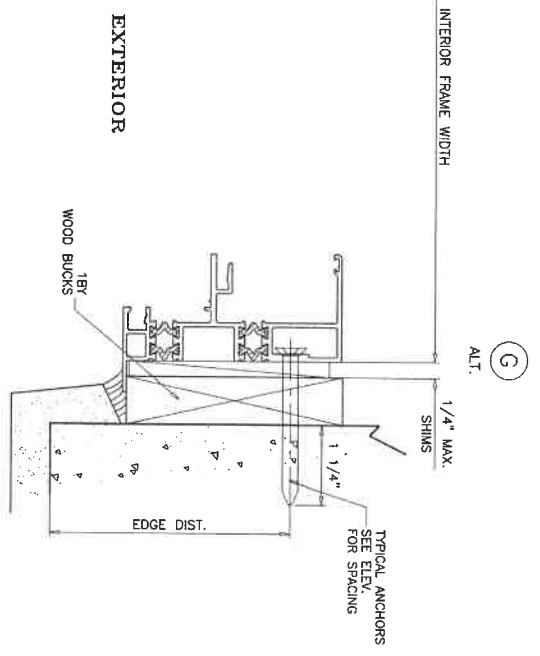
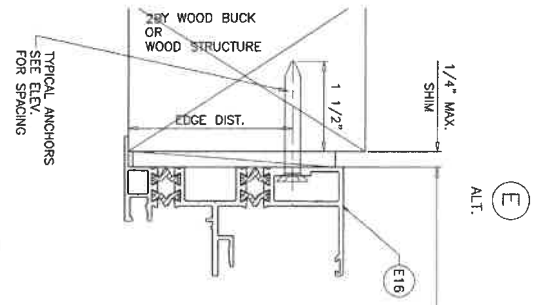


drawing no. W16-23	date: 04-19-16	revisions:
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	dr. by: TARIQ	
	chk. by:	

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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INSTALLATION DETAILS FLANGE FRAMES
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

Sealed: 10/20/2023
FL #203883

date:	04-19-16
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

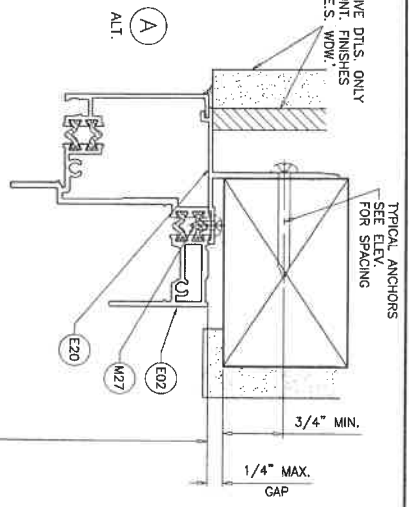
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ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
E.S. WINDOWS, LLC
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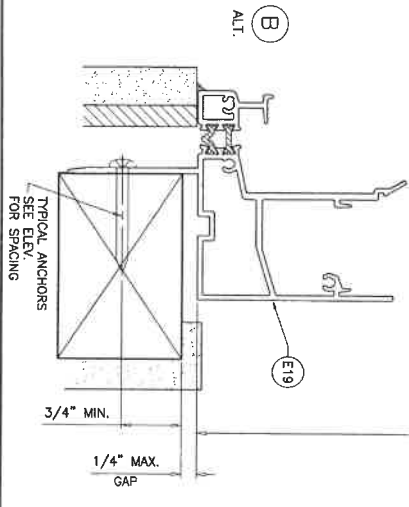
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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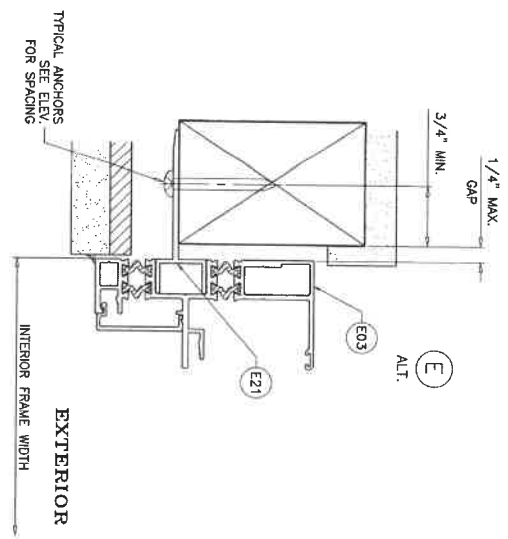
ILLUSTRATIVE DET. ONLY
EXT. OR INT. FINISHES
NOT BY 'E.S. WDW.'



EXTERIOR

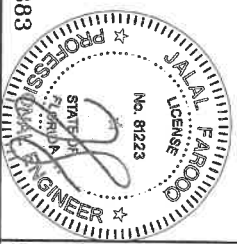


TYPICAL ANCHORS: SEE ELEV. FOR SPACING
#12 WOOD SCREWS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD



INSTALLATION DETAILS FLUSH FRAMES WITH NAIL FINIS
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

Sealed: 10/20/2023
FL #203883



date: 04-19-16	revisions:
scale: 1/2" = 1"	no. date by description
dr. by: TARIQ	
chk. by:	

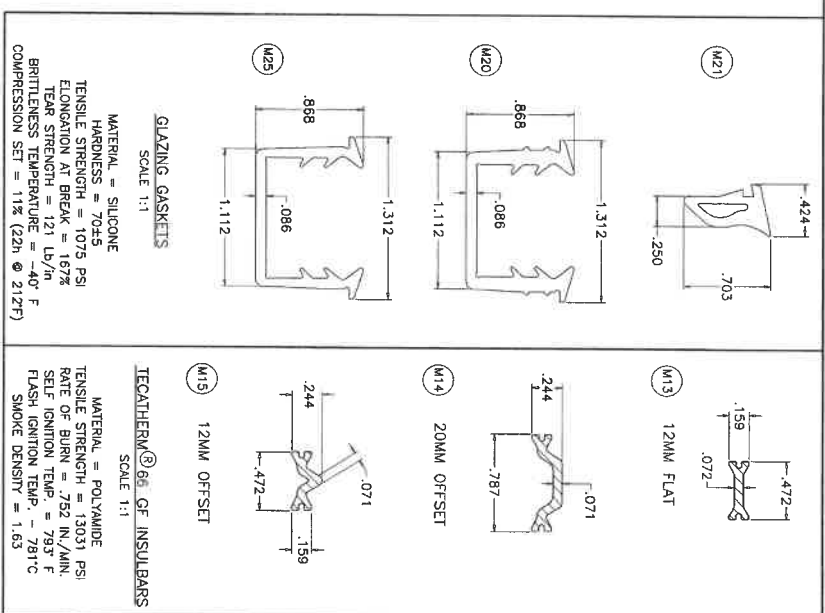
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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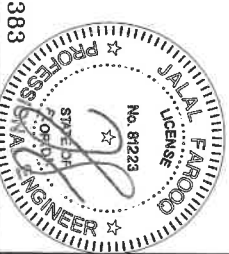


ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-SW340-501	1	FRAME SILL FLUSH	6063-T6	-
E02	ES-SW340-505	1	FRAME HEAD FLUSH	6063-T6	-
E03	ES-SW340-502	2	FRAME JAMB FLUSH	6063-T6	-
E04	ES-H340-507	AS REQD.	FIX. MEETING RAIL	6063-T6	-
E05	ES-SW340-503	-	FIXED BOTTOM	6063-T6	-
E06	ES-H340-508	-	VENT SIDE RAIL	6063-T6	-
E07	ES-SW340-504	2/ VENT	VERTICAL RAIL	6063-T6	-
E08	ES-H340-510	1/ VENT	VENT TOP RAIL	6063-T6	-
E09	ES-H340-513	4/ LITE	GLASS STOP	6063-T5	-
E10	ES-SW340-005	4/ LITE	HORIZONTAL FIXED GLASS STOP	6063-T6	-
E11	ES-SW340-006	1/ VENT	TRACK	6005-T5	-
E12	ES-SW340-007	-	COVER	6063-T5	-
E13	ES-H340-021	-	HORIZONTAL/VERTICAL TRIM	6063-T5	-
E14	ES-H340-007	-	TRIM FOR SCREEN	6063-T6	-
E15	ES-H340-506	1	FRAME HEAD FLANGE	6063-T6	-
E16	ES-SW340-506	2	FRAME JAMB FLANGE	6063-T6	-
E17	ES-SW340-505	1	FRAME SILL FLANGE	6063-T6	-
E18	ES-SW340-507	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
E19	ES-SW340-509	1	FRAME SILL FIN	6063-T6	-
E20	ES-SW340-016	AS REQD.	NAIL FIN (HEAD)	6063-T6	-
E21	ES-SW340-015	AS REQD.	NAIL FIN (JAMB)	6063-T6	-
M01	#10 X 1-1/2" FH	AS REQD.	FRAME ASSEMBLY FASTENER	ST/ST	-
M02	#10 X 1" PH	-	FRAME AND FIX. PANEL FASTENERS	ST/ST	-
M03	#8 X 1/2" PH	-	FOR ROLLER, PLASTIC PROFILE AND GLASS STOP	ST/ST	SPACED AT 10" O.C.
M04	#8 X 3/4" FH SMS	-	SWEEP LOCK FASTENER	-	-
M05	ES-SW340-301	-	PLASTIC EXTRUSION	RIGID PVC	-
M08	V2200	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M10	ES-21-B04A	2 LITE	SETTING BLOCKS	SILICONE	DUROMETER 80±5 SHORE A
M11	W23212WK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M12	W23202WK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M13	1442	AS REQD.	INSULBAR 12 MM FLAT	POLYAMIDE	ENSINGER
M14	2479	AS REQD.	INSULBAR 20 MM OFFSET	POLYAMIDE	ENSINGER
M15	2531	AS REQD.	INSULBAR 12 MM OFFSET	POLYAMIDE	ENSINGER
M16	3032	1/ VENT	SWEEP LOCK	DIE CAST ALUM	AT 13" FROM EACH END
M17	ES1050-PL1	-	FLAT BOLT	ST/ST	-
M18	RU-340-IR	2/ VENT	TANDEM ROLLER	ST/ST	AT 5" FROM EACH END
M19	ES-SW340-505	AS REQD.	EXTERIOR GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M20	ES-H340-501	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M21	PS-1127E	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M22	ES-S0450-F01	AS REQD.	RETICULATED FOAM (5/8" X 5/8" X 2")	FOAM	-
M24	-	-	GLAZING TAPE (3/16" X 3/16")	FOAM	-
M25	ES-H340-503	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M27	#8 X 3/8"	AS REQD.	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	PH SMS

SEALANTS:
 FRAME AND VENT CORNERS AND INSTALLATION SCREENS AT SILL
 SEALED WITH 'ACCURA' ARCYLIC LATEX SEALANT BY
 'M-D BUILDING PRODUCTS'



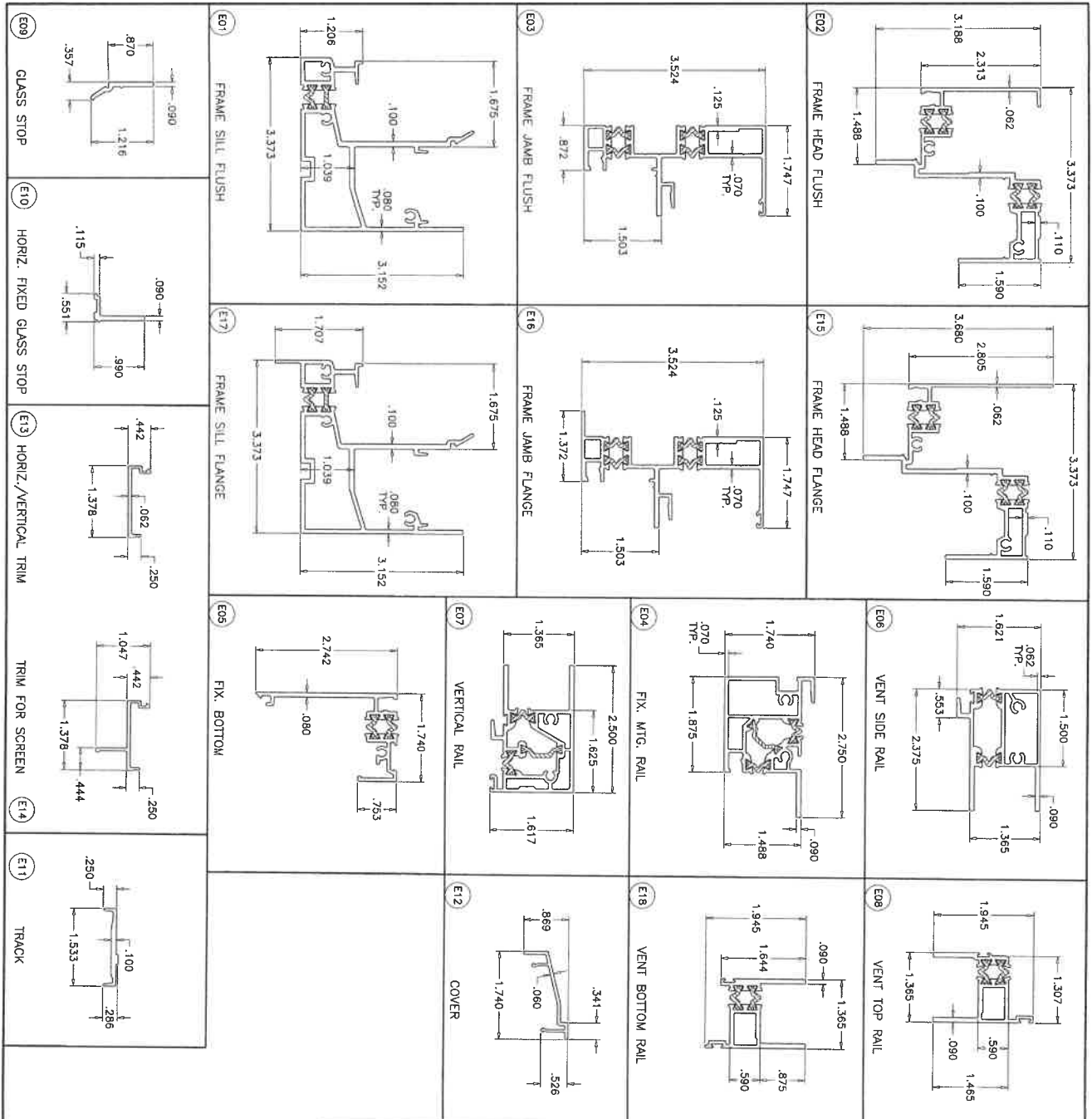
Sealed: 10/20/2023
 FL #203883



drawing no.	W16-23
sheet	12 of 14
date:	04-19-16
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	
revisions:	no date by description

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)
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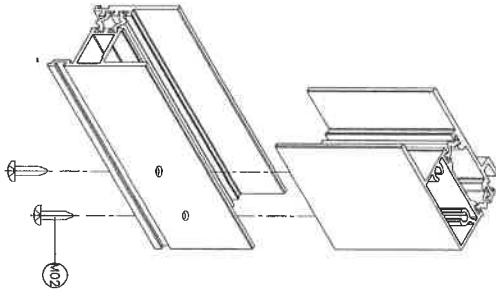
AL-FAROOQ CORPORATION
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 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W16-23-ES



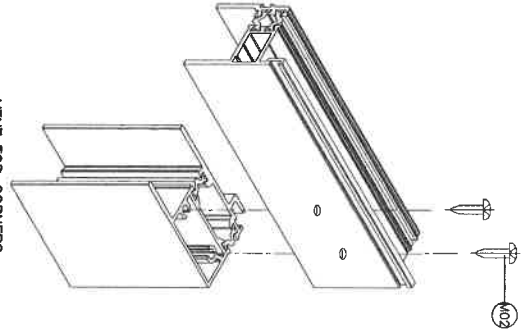
Sealed: 10/20/2023
 FL #203383

drawing no. W16-23	date: 04-19-16 scale: 1/2" = 1" dr. by: TARIQ chk. by:	revisions: no. date by description	ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978	
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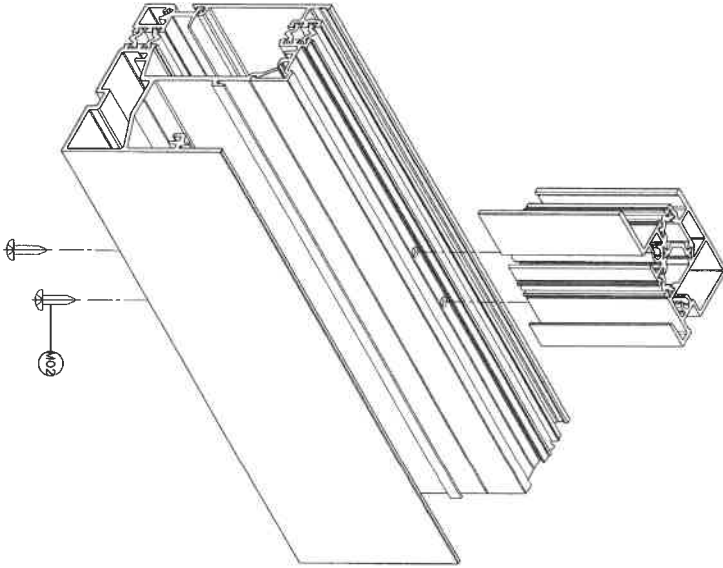
VENT BOTTOM CORNERS



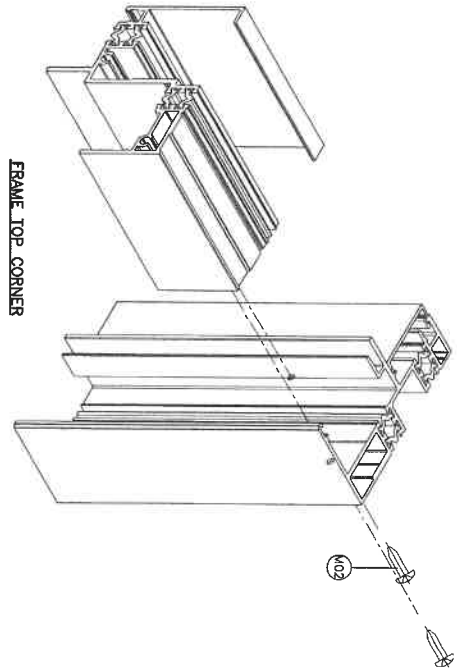
VENT TOP CORNERS



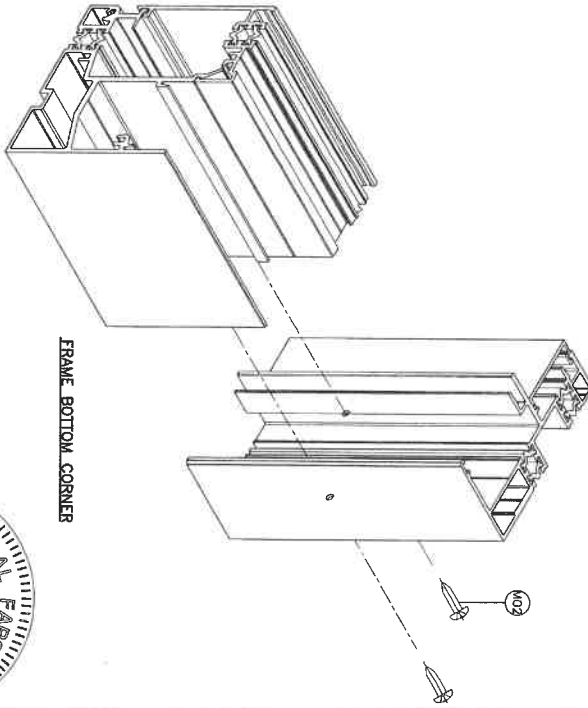
FIXED MTG. RAIL CORNERS



FRAME TOP CORNER

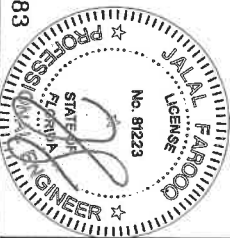


FRAME BOTTOM CORNER



Sealed: 10/20/2023

FL #20383



Sheet 14 of 14

drawing no. **W16-23**

date: 04-19-16

scale: 1/2" = 1"

dr. by: TARIO

chk. by:

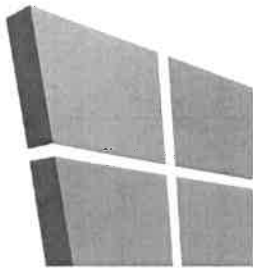
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no	date	by description

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)

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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 20383

Date: 10/16/2023

Detailed Product Description:

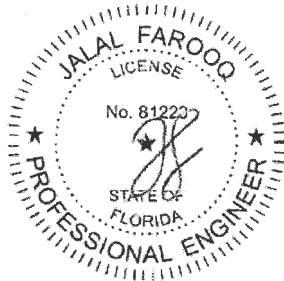
Manufacturer: E.S. WINDOWS, LLC.

Manufacturer Address: 3550 N.W. 49 STREET – MIAMI, FL. 33142

Model Name: SERIES ES-SW340 THERMAL ALUMINUM SLIDING WINDOW

Maximum Load: +80 PSF, -90 PSF (Large Missile Impact)

Installation Drawings # W16-23

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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/ QAI	03/15/2016 10/08/2021	FTL-7903 FTL-12522	Idalmis Ortega, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory/QAI	03/15/2016 10/08/2021	FTL-7903 FTL-12522	Idalmis Ortega, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory/QAI	03/15/2016 10/08/2021	FTL-7903 FTL-12522	Idalmis Ortega, P.E.
ASTM F588	Forced Entry	Fenestration Testing Laboratory/QAI	03/15/2016 10/08/2021	FTL-7903 FTL-12522	Idalmis Ortega, P.E.
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/QAI	03/15/2016 10/08/2021	FTL-7903 FTL-12522	Idalmis Ortega, P.E.
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 2023 Florida Building Code.					
Evaluation Report Engineer:					
Jalal Farooq Al-Farooq Corporation		PE # 81223 EB # 3538			
			Sealed: 10/17/2023		