



Product Approval
USER: Public User

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SECRETARY

FL #	FL46587-R1								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Tecnoglass LLC.								
Address/Phone/Email	3550 nw 49 street miami, FL 33146 (305) 342-0890 ssabagh@eswllc.com								
Authorized Signature	Jalal Farooq veronica@afceng.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Single Hung								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ 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	02/19/2036								
Validated By	Abel Carrasco, PE ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL46587 R1 COI SS - Certificate of Independence 2023.pdf								
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th><th>Year</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>	Standard	Year	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year								
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	07/30/2025
Date Validated	08/05/2025
Date Pending FBC Approval	08/08/2025
Date Approved	10/14/2025

Summary of Products

FL #	Model, Number or Name	Description
46587.1	Series 500Y Aluminum Single Hung Window	Small missile impact resistant aluminum single hung window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-150 Other: See drawing 24-07F for span vs load combination and installation details.		Installation Instructions FL46587_R1_II_SS - 500Y SH (SMI) - DWG 24-07F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL46587_R1_AE_SS - 500Y SH (SMI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes
46587.2	Series 500Y Aluminum Single Hung Window	Large missile impact resistant aluminum single hung window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +106.7/-140 Other: See drawing 25-71F for span vs load combination and installation details.		Installation Instructions FL46587_R1_II_SS - 500Y SH (LMI) - DWG 25-71F 2023.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL46587_R1_AE_SS - 500Y SH (LMI) - 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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Product Approval Accepts:



THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
ARE REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE
30 FT. OF GRADE.

SERIES 500Y

ALUMINUM SINGLE HUNG WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS
OF S.H. TO S.H. OR S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR
MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN
BETWEEN.

FOR S.H. WINDOW CAPACITY SEE CHARTS ON SHEETS 3 THRU 4.1.
FOR WINDOW WALL BOTTOM LITE CAPACITY SEE CHART ON SHEET 7.
FOR WINDOW MULLION CAPACITY SEE CHART ON SHEET 7.
LOWER DESIGN PRESSURES FROM CHARTS ABOVE WILL APPLY
TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH 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.

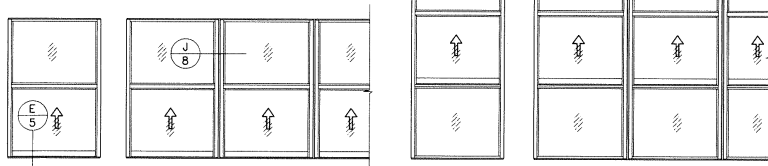
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023 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.

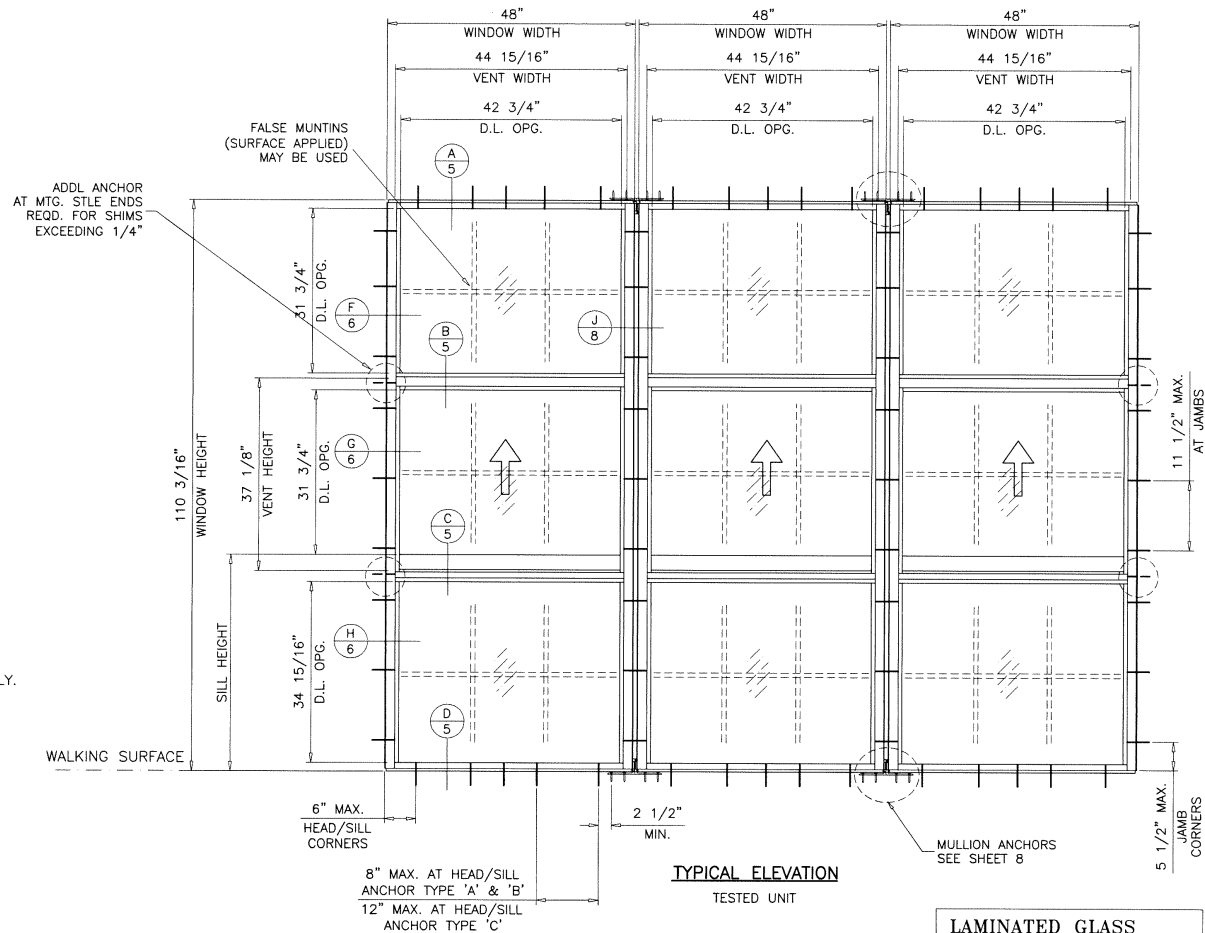
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.



APPROVED CONFIGURATIONS

APPROVAL APPLIES TO INDIVIDUAL UNITS OF SINGLE HUNG WINDOWS OR SINGLE HUNG OVER FIXED WINDOWS.
ALSO SIDE BY SIDE COMBINATIONS OF S.H. TO S.H. OR S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR
MORE UNITS USING MULLIONS.



Sealed: 2/29/2024

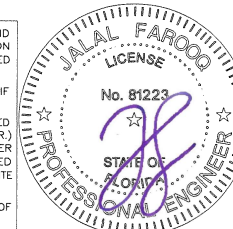
FL #46587

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.



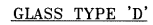
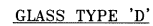
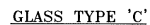
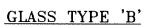
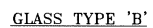
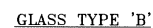
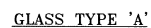
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FBBP #3538

SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:	no	date	by	description

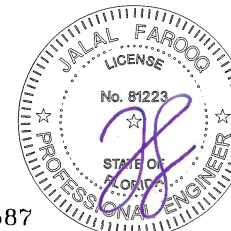
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dr. by: TARIQ
chk. by:

drawing no.
24-07F
sheet 1 of 10



Sealed: 2/29/2024

FL #46587



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WWW.AFCENG.COM
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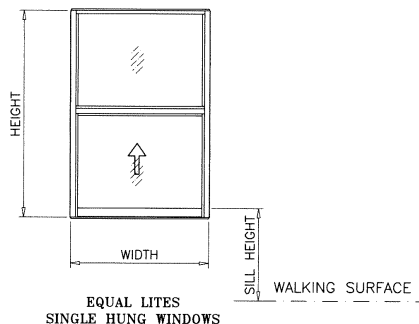
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drawing no.		24-07F	
sheet		2 of 10	
date: 02-20-24		revisions:	
scale: 1/2" = 1"		no date by description	
dr. by: TARIQ			
chk. by:			

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. WIDTH HEIGHT		3/8" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		89.7	116.6	89.7	116.6	89.7	116.6	83.3	108.3
66"	72"	67.0	87.1	67.0	87.1	67.0	87.1	62.2	80.9
72"		51.3	66.7	51.3	66.7	51.3	66.7	47.7	62.0
36"	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		77.9	101.3	77.9	101.3	77.9	101.3	72.4	94.1
66"	72"	58.0	75.4	58.0	75.4	58.0	75.4	53.9	70.1
72"		44.4	57.7	44.4	57.7	44.4	57.7	41.2	53.6
36"	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		96.5	125.5	96.5	125.5	96.5	125.5	89.6	116.5
60"		69.2	90.0	69.2	90.0	69.2	90.0	64.3	83.6
66"	72"	51.4	66.9	51.4	66.9	51.4	66.9	47.8	62.1
72"		39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
36"	54"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		87.7	114.0	87.7	114.0	87.7	114.0	81.5	105.9
60"		62.7	81.5	62.7	81.5	62.7	81.5	58.2	75.7
66"	72"	46.4	60.3	46.4	60.3	46.4	60.3	-	-
72"		35.3	45.9	35.3	45.9	-	-	-	-
36"	60"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		81.0	105.3	81.0	105.3	81.0	105.3	75.2	97.8
60"		57.6	74.8	57.6	74.8	57.6	74.8	-	-
66"	72"	42.4	55.2	42.4	55.2	-	-	-	-
72"		-	-	-	-	-	-	-	-
36"	66"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	148.3	100.0	148.3	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	133.7	100.0	130.0
54"		75.8	98.5	75.8	98.5	75.8	98.5	-	-
60"		53.5	69.6	53.5	69.6	-	-	-	-
36"	72"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	144.0	100.0	144.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	129.4	100.0	130.0
54"		71.7	93.2	71.7	93.2	-	-	-	-
72"		-	-	-	-	-	-	-	-

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. WIDTH HEIGHT		3/8" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	78"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	149.2	100.0	149.2	100.0	130.0
43-1/4"		100.0	130.0	100.0	141.4	100.0	141.4	100.0	130.0
48"		100.0	130.0	100.0	130.0	-	-	100.0	129.4
54"		68.5	89.1	68.5	89.1	-	-	-	-
36"	84"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	148.5	100.0	148.5	100.0	130.0
43-1/4"		100.0	125.1	100.0	140.1	100.0	140.1	-	-
48"	86"	100.0	125.1	100.0	125.1	-	-	-	-
36"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	148.5	100.0	148.5	100.0	130.0
43-1/4"	89-1/4"	100.0	124.7	100.0	140.0	100.0	140.0	-	-
36"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0
48"	90"	100.0	124.7	100.0	124.7	-	-	-	-
36"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0
36"	96"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0



EQUAL LITES
SINGLE HUNG WINDOWS

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: 2/29/2024

FL #46587



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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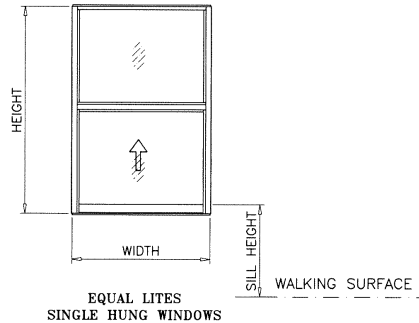
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dr. by: FAROQ
chk. by:

drawing no.
24-07F

sheet 3 of 10

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. WIDTH HEIGHT		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	60"	89.7	116.6	89.7	116.6	89.7	116.6	83.3	108.3
	66"	67.0	87.1	67.0	87.1	67.0	87.1	62.2	80.9
	72"	51.3	66.7	51.3	66.7	51.3	66.7	47.7	62.0
	72"	51.3	66.7	51.3	66.7	51.3	66.7	47.7	62.0
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	60"	77.9	101.3	77.9	101.3	77.9	101.3	72.4	94.1
	66"	58.0	75.4	58.0	75.4	58.0	75.4	53.9	70.1
	72"	44.4	57.7	44.4	57.7	44.4	57.7	41.2	53.6
	72"	44.4	57.7	44.4	57.7	44.4	57.7	41.2	53.6
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	96.5	125.5	96.5	125.5	96.5	125.5	89.6	116.5
	60"	69.2	90.0	69.2	90.0	69.2	90.0	64.3	83.6
	66"	51.4	66.9	51.4	66.9	51.4	66.9	47.8	62.1
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	87.7	114.0	87.7	114.0	87.7	114.0	81.5	105.9
	60"	62.7	81.5	62.7	81.5	62.7	81.5	58.2	75.7
	66"	46.4	60.3	46.4	60.3	46.4	60.3	-	-
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	81.0	105.3	81.0	105.3	81.0	105.3	75.2	97.8
	60"	57.6	74.8	57.6	74.8	57.6	74.8	38.2	49.7
	66"	46.4	60.3	46.4	60.3	46.4	60.3	-	-
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	75.8	98.5	75.8	98.5	75.8	98.5	50.3	65.4
	60"	57.6	74.8	57.6	74.8	57.6	74.8	38.2	49.7
	66"	46.4	60.3	46.4	60.3	46.4	60.3	-	-
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
43-1/4"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
	54"	75.8	98.5	75.8	98.5	75.8	98.5	50.3	65.4
	60"	57.6	74.8	57.6	74.8	57.6	74.8	38.2	49.7
	66"	46.4	60.3	46.4	60.3	46.4	60.3	-	-
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
	72"	39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. WIDTH HEIGHT		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	78"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"	84"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"	86"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"	89-1/4"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
36"	90"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
36"	96"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0



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

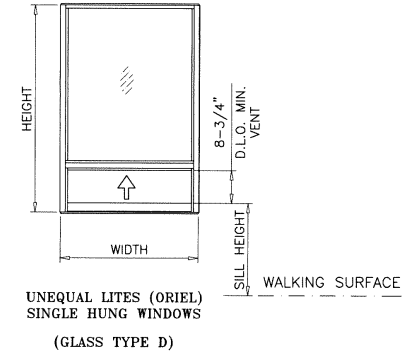
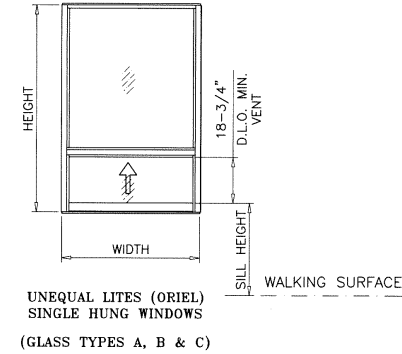
Sealed: 2/29/2024

FL #46587



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 FBPE #3538		af c WWW.AFCENG.COM COMP-ANL\24-07F-TC	
SERIES 500Y ALUM. SINGLE HUNG WINDOW (S.M.I.)			
TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL (305) 638-5151 FAX (305) 638-5158			
revisions: no. date by description		date: 02-20-24 scale: - dr. by: JAF/IO chg. by:	
drawing no. 24-07F		sheet 3.1 of 10	

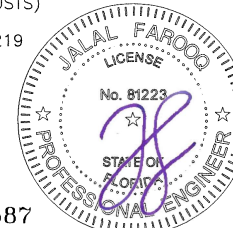
UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF															
WINDOW DIMS.		3/8" MAX. SHIMS								1/4" MAX. SHIMS					
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	43-1/4"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		81.9	110.5	81.9	110.5	81.9	110.5	93.7	121.8	81.9	110.5	81.9	110.5	93.7	121.8
66"		58.7	79.3	58.7	79.3	58.7	79.3	66.7	86.7	58.7	79.3	58.7	79.3	66.7	86.7
72"	54"	43.6	58.9	43.6	58.9	43.6	58.9	49.2	64.0	43.6	58.9	43.6	58.9	49.2	64.0
36"		33.3	45.0	33.3	45.0	33.3	45.0	37.4	48.6	33.3	45.0	33.3	45.0	37.4	48.6
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		74.9	101.1	74.9	101.1	74.9	101.1	87.9	114.3	74.9	101.1	74.9	101.1	87.9	114.3
66"	60"	53.4	72.1	53.4	72.1	53.4	72.1	61.9	80.4	53.4	72.1	53.4	72.1	61.9	80.4
72"		39.5	53.3	39.5	53.3	39.5	53.3	-	-	39.5	53.3	39.5	53.3	-	-
36"		30.1	40.6	30.1	40.6	-	-	-	-	30.1	40.6	30.1	40.6	-	-
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"	66"	70.1	94.7	70.1	94.7	70.1	94.7	84.4	109.7	70.1	94.7	70.1	94.7	84.4	109.7
66"		49.6	67.0	49.6	67.0	49.6	67.0	-	-	49.6	67.0	49.6	67.0	-	-
72"		36.5	49.3	36.5	49.3	-	-	-	-	36.5	49.3	36.5	49.3	-	-
36"		27.7	37.3	27.7	37.3	-	-	-	-	27.7	37.3	27.7	37.3	-	-
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"	72"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
72"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
36"		67.1	90.5	67.1	90.5	67.1	90.5	-	-	67.1	90.5	67.1	90.5	-	-
42"		47.0	63.5	47.0	63.5	-	-	-	-	47.0	63.5	47.0	63.5	-	-
48"	78"	34.3	46.3	34.3	46.3	-	-	-	-	34.3	46.3	34.3	46.3	-	-
54"		25.9	34.9	25.9	34.9	-	-	-	-	25.9	34.9	25.9	34.9	-	-
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
72"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
36"		65.4	88.2	65.4	88.2	-	-	-	-	65.4	88.2	65.4	88.2	-	-
42"	84"	45.3	61.1	45.3	61.1	-	-	-	-	45.3	61.1	45.3	61.1	-	-
48"		32.8	44.2	32.8	44.2	-	-	-	-	32.8	44.2	32.8	44.2	-	-
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
72"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
36"	89-1/4"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
36"	90"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
36"	96"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0
66"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0



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: 2/29/2024

FL #46587

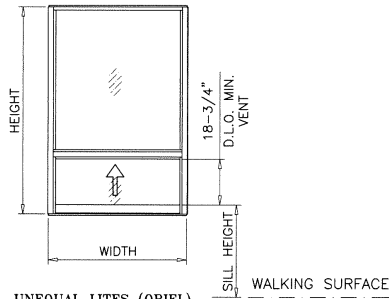


af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

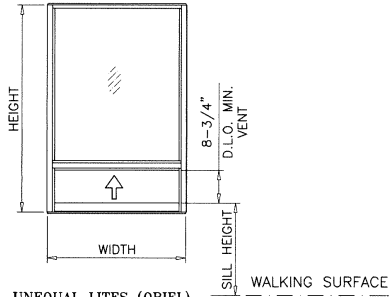
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:	no	date	by	description
date:	02-20-24	scale:	-	
dr. by:	JAFQ	chk. by:		
drawing no.	24-07F			
sheet	4 of 10			

UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	48"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.6	106.7	140.0	100.0	130.0
54"		81.9	110.5	81.9	110.5	81.9	110.5	93.7	121.8
60"		58.7	79.3	58.7	79.3	58.7	79.3	-	-
66"	54"	43.6	58.9	43.6	58.9	43.6	58.9	-	-
72"		33.3	45.0	33.3	45.0	33.3	45.0	-	-
36"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	106.7	140.0	-	-
54"		74.9	101.1	74.9	101.1	74.9	101.1	-	-
60"		53.4	72.1	53.4	72.1	53.4	72.1	-	-
36"	60"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	-	-
43-1/4"		100.0	130.0	100.0	150.0	103.1	150.0	-	-
48"		100.0	130.0	100.0	130.0	103.1	139.2	-	-
36"	66"	100.0	130.0	100.0	150.0	106.7	150.0	-	-
42"		100.0	130.0	100.0	150.0	106.7	150.0	-	-
43-1/4"		100.0	130.0	100.0	150.0	100.6	150.0	-	-
36"		100.0	130.0	100.0	150.0	106.7	150.0	-	-



UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPES A, B & C)

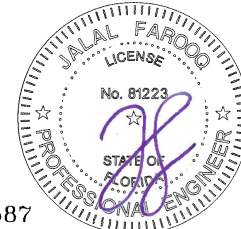


UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPE D)

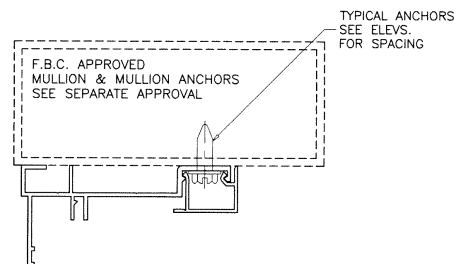
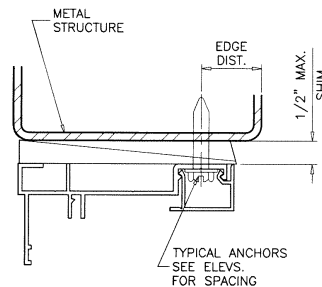
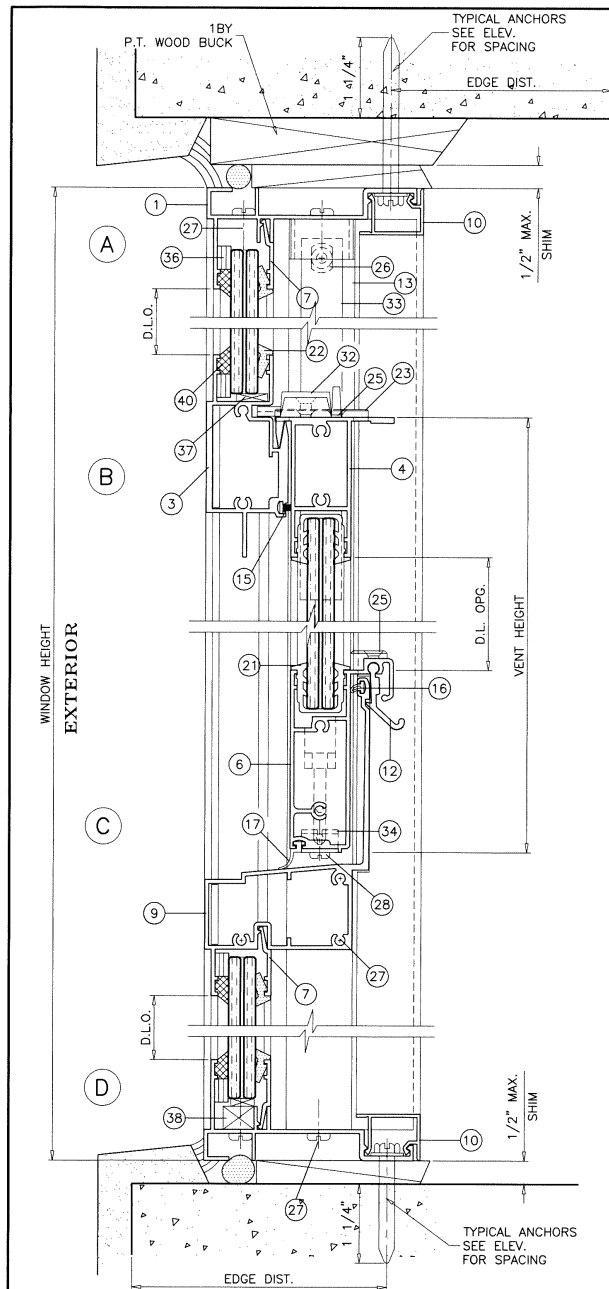
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 2/29/2024

FL #46587



af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 WWW.AFCENG.COM COMP-ANL 24-07F-TG	
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.) TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	date: 02-29-24 scale: — dr. by: TARIQ chg. by:
revisions: (no) date by description	drawing no. 24-07F sheet 4.1 of 10



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 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)

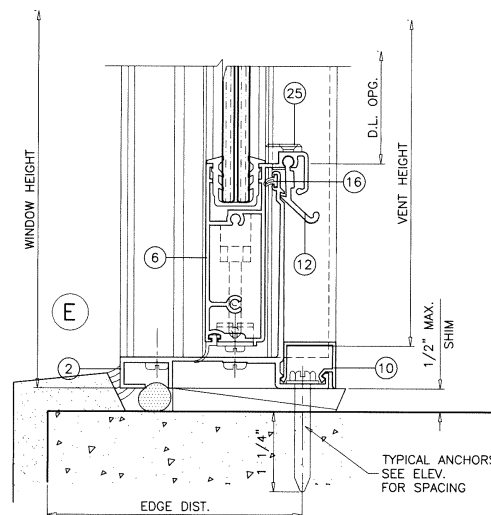
TYPE 'B' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'C' - 1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL 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 = 1500 PSI MIN.



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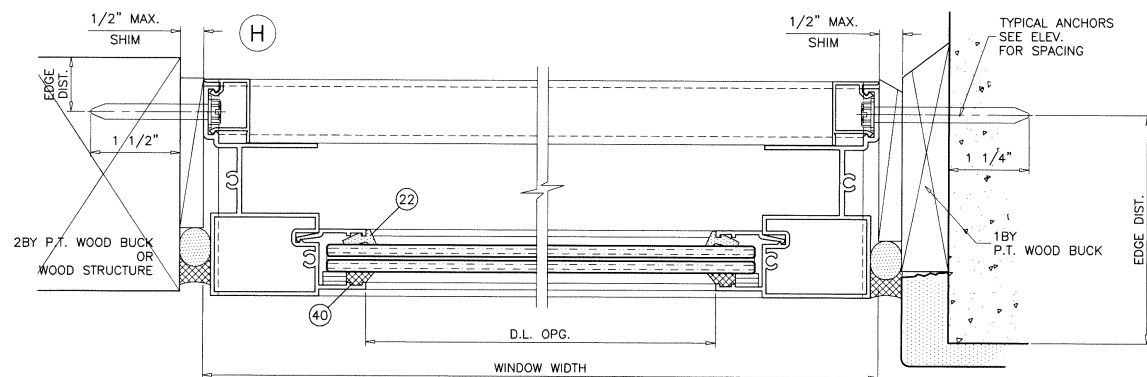
FL #46587



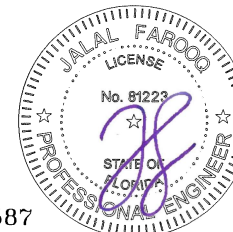
AL-FAROOQ CORPORATION
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revisions:	no	date	by	description
	02-20-24			
	Scale: 1/2" = 1"			
	dr. by: JALQ			
	chk. by:			
	drawing no.			
	24-07F			
	sheet 5 of 10			

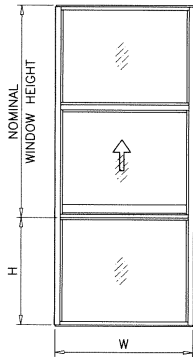


FL #46587

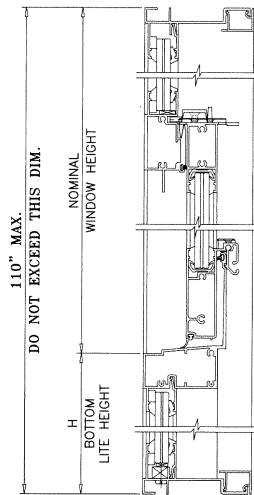
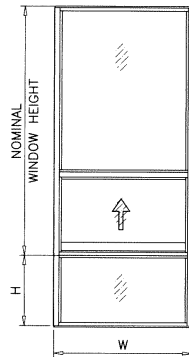


drawing no.		revisions:	
24-07F		no	by description
sheet 6 of 10			
date: 02-20-24			
scale: 1/2" = 1"			
dr. by: TARIQ			
chk. by:			

WINDOWALL BOTTOM LITE CAPACITY			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		GLASS TYPE 'A' 'B' 'C' & 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
24"	38-3/8"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
24"	42"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		91.5	119.0
24"	48"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0



SINGLE HUNG OVER
FIXED WINDOWS

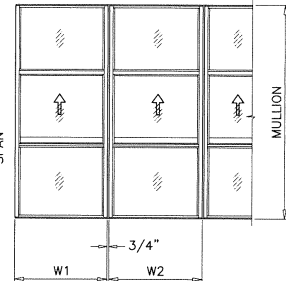
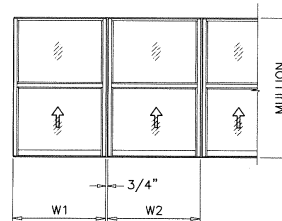


REFER TO SHEETS 3 THRU 4.1 TO OBTAIN CAPACITY OF WINDOW PORTION FOR CONFIGURATION/GLASS USED.

REFER TO CHART ABOVE TO OBTAIN CAPACITY OF BOTTOM LITE OF WINDOWALL.

REFER TO CHARTS AT RIGHT OF THIS PAGE TO OBTAIN MULLION CAPACITY.

USE LOWEST VALUES OF OPTIONS CONSULTED.

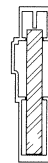


$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 3/4"$$

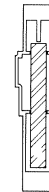
MULLION CAPACITY CHART - PSF			
WINDOW DIMS.		STD. MULLION UNREINFORCED	
WIDTH (W)	MULL. SPAN	EXT.(+)	INT.(-)
36"	48"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
66"		100.0	130.0
72"		100.0	130.0
36"	54"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"	60"	100.0	130.0
66"		100.0	130.0
72"		100.0	130.0
36"	66"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"	72"	100.0	130.0
66"		100.0	130.0
72"		100.0	130.0



STD. MULLION
UNREINFORCED



STD. MULLION
REINFORCED



H.D. MULLION
REINFORCED

MULLION CAPACITY CHART - PSF					
WINDOW DIMS.		STD. MULLION REINFORCED		H.D. MULLION REINFORCED	
WIDTH (W)	MULL. SPAN	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	66"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"	72"	100.0	130.0	100.0	130.0
36"		100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"	78"	100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"		100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"	84"	100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"		100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"	90"	100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"		100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"	96"	100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"		100.0	130.0	100.0	130.0
42"	108"	100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	110"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0



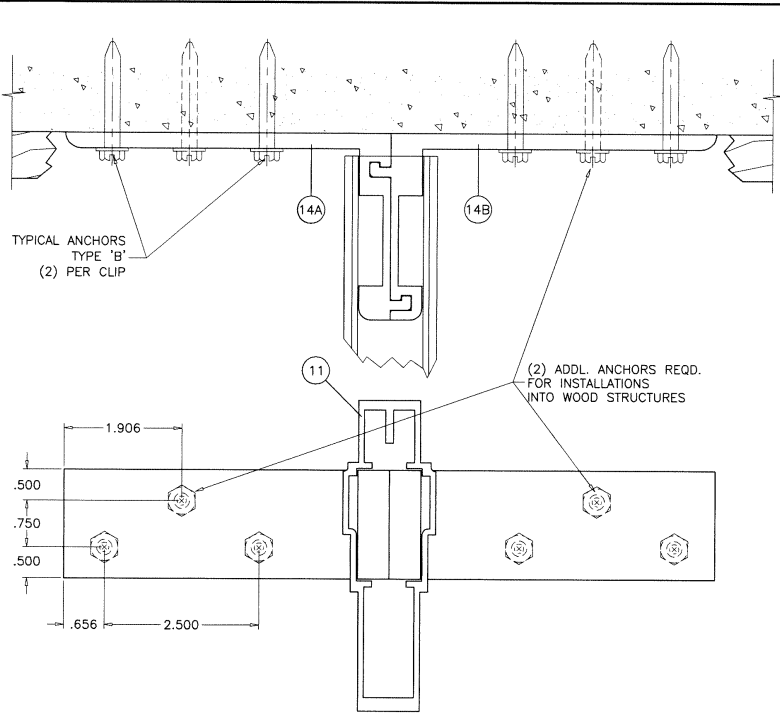
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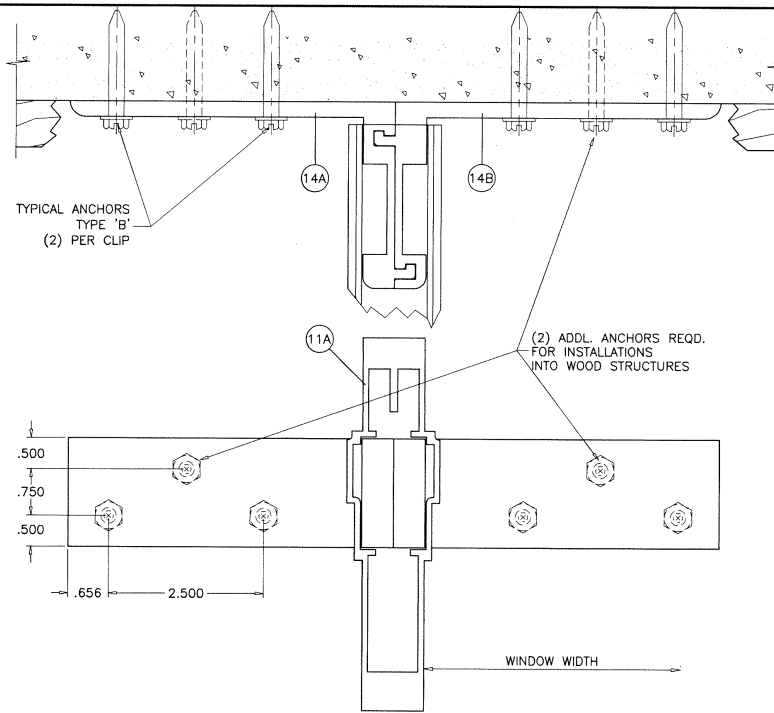
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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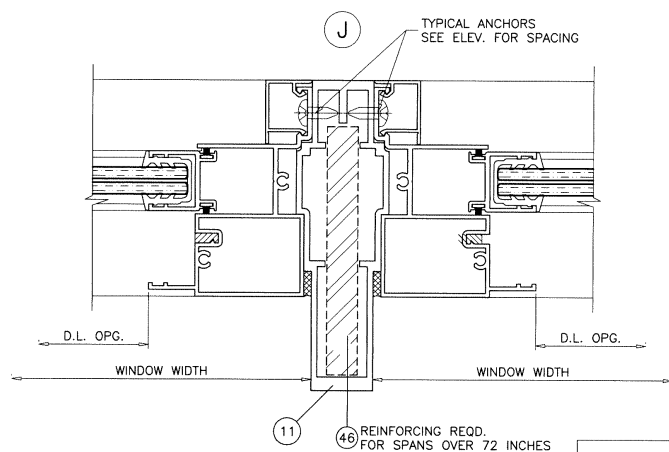
revisions:
no date by description
date: 02-20-24
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dr. by: JAF/IG
chk. by:
drawing no.
24-07F
sheet 7 of 10



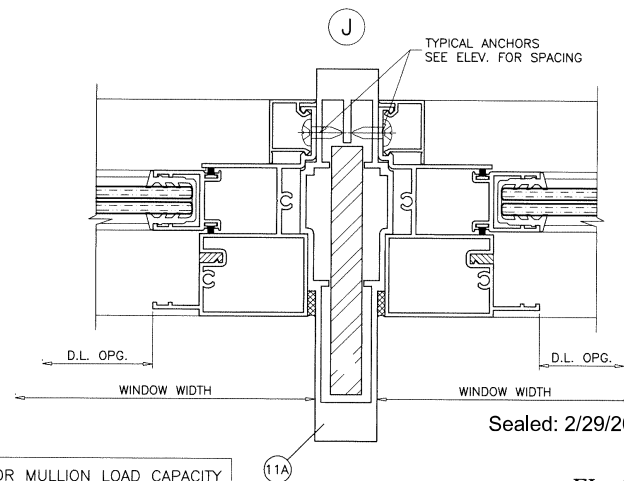
MULLION CONNECTION AT HEAD & SILL
OPTION 1



MULLION CONNECTION AT HEAD & SILL
OPTION 2



SEE CHARTS ON SHEET 6 FOR MULLION LOAD CAPACITY



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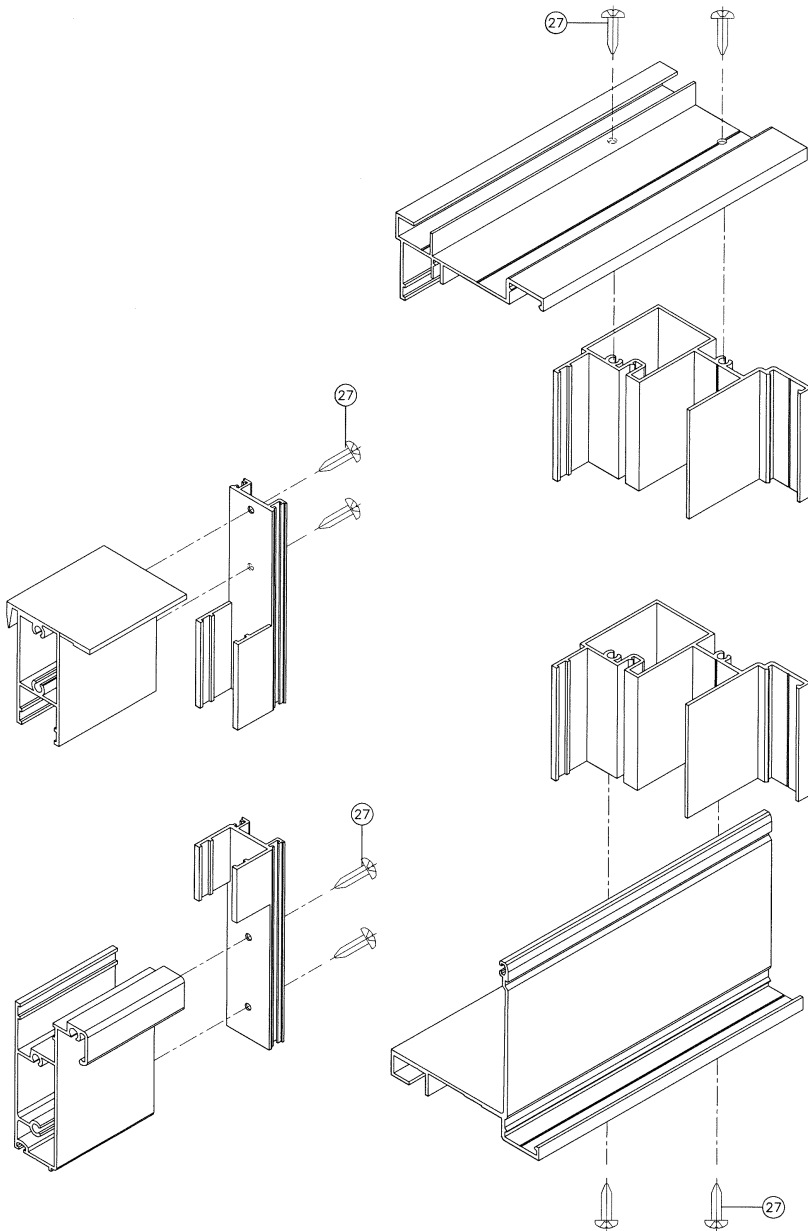


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af c
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dr. by:	JAFIQ	chk. by:		
drawing no.	24-07F			
sheet	8 of 10			



VENT CORNER DETAIL

FRAME CORNERS DETAIL

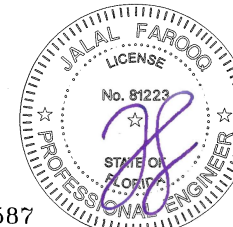
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	500Y-001	AS REQD.	HEAD & FIXED SILL	6063-T6	AT FRAME
2	500Y-002A	AS REQD.	FRAME SILL	-	AT FRAME
3	500Y-003	1	MEETING RAIL	6005-T5	AT FRAME
4	500Y-004	1	VENT TOP	6005-T5	SASH VENT
5	500Y-005	2	JAMB	6063-T6	AT FRAME
6	500Y-006A	1	VENT BOTTOM	6063-T6	SASH VENT
7	500Y-007	AS REQD.	GLAZING BEAD	6063-T6	AT FIXED GLASS
8	500Y-008	2	VENT SIDE	6063-T6	SASH VENT
9	500Y-009	AS REQD.	SILL MEETING RAIL	6005-T5	AT FRAME
10	500Y-010	AS REQD.	TRACK COVER (OPTIONAL)	6063-T6	AT FRAME
11	500Y-023	AS REQD.	STD. MULLION	6063-T6	AT FRAME
11A	500Y-029	AS REQD.	H.D. MULLION	6063-T6	AT FRAME
12	LL-300	2/VENT	HANDICAP FINGER LOCK	6063-T6	SASH VENT
13	500Y-013	1	VENT STOP	6063-T6	AT TOP OF FRAME
14A	500Y-024	AS REQD.	FEMALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
14B	500Y-025	AS REQD.	MALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
15	W33261NK	AS REQD.	WEATHERSTRIPPING PILE	-	AT VENT SIDE MEETING RAIL
16	WV-3189	AS REQD.	W'STRIPPING GASKET (DUROMETER 65 SHORE A)	VINYL	SILL & SILL MEETING RAIL
17	V-048	AS REQD.	W'STRIPPING GASKET (DUROMETER 60±5 SHORE A)	NEOPRENE	BOTTOM OF SASH VENT
21	V-052	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
21A	V-049	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
22	V-053	-	GLAZING WEDGE (DUROMETER 70±5 SHORE A)	VINYL	-
23	P-012	2/ VENT	VENT TOP GUIDE PLASTIC M&M (ROCKWELL R 110)	NYLON	TOP OF SASH VENT
24	P-013	2/ VENT	VENT BOTTOM GUIDE PLASTIC M&M (ROCKWELL R 110)	NYLON	BOTTOM OF SASH VENT
25	-	AS REQD.	#8 X 3/8" LG. FH. SMS. ST/ST PHILLIPS	-	AT P-012, P-013 & PD-203
26	-	2	#8 X 1" LG. FH. SMS. ST/ST PHILLIPS	-	AT TOP OF BALANCE
27	-	AS REQD.	#10 X 1" LG. PH. SMS. ST/ST PHILLIPS	-	ASSEMBLY SCREWS
28	-	6	#10 X 3/4" LG. PH. SMS. ST/ST PHILLIPS	-	AT BALANCE CLIP
29	-	-	-	-	-
32	PD-203	2/ WDW	SASH LOCK	-	AT TOP OF SASH
33	-	2/ WDW	ULTRA-LIFT BALANCE #30	-	AT FRAME
34	-	2/ WDW	ULTRA-LIFT NON TILT BRACKET	-	-
36	-	-	1/4" X 1/2" FOAM TAPE SINGLE FACE	-	-
37	-	-	1/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
38	-	-	3/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
40	DC-795	-	GLAZING COMPOUND	SILICONE	-
42	-	-	-	-	-
46	-	AS REQD.	1/2" X 4" X 104" LG. STEEL	-	AT MULLION

SEALANT:

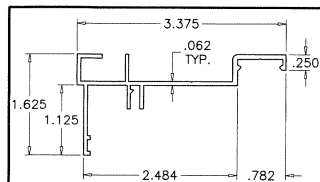
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

Sealed: 2/29/2024

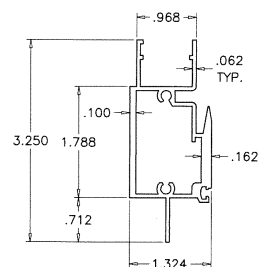
FL #46587



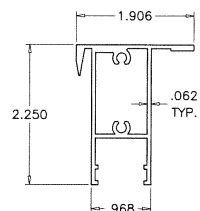
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL: (305) 264-8100 WWW.AFCENG.COM FBPE #3538		SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.) TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL: (305) 638-5151 FAX: (305) 638-5158
revisions: (no) (date) (by) (description)	date: 02-20-24 scale: 1/2" = 1" dr. by: JAFQ chg. by:	drawing no. 24-07F sheet 9 of 10



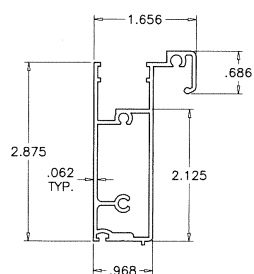
① FRAME HEAD/SILL



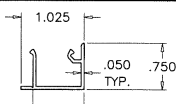
③ MEETING RAIL



④ VENT TOP RAIL

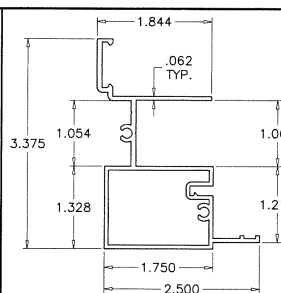


⑥ VENT BOTTOM RAIL

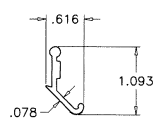


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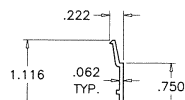
INSTALLATION TRACK COVER



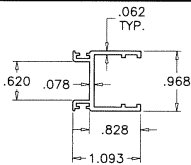
⑤ FRAME JAMB



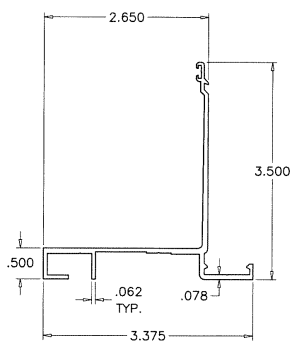
(12) VENT LATCH



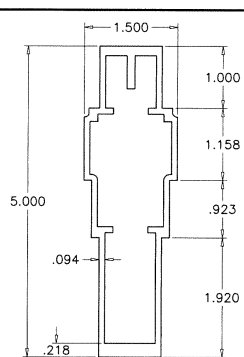
⑦ GLAZING BEAD



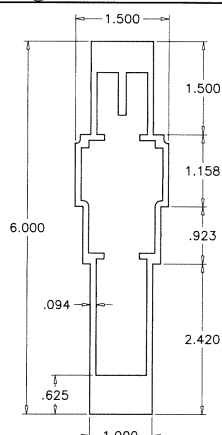
⑧ VENT SIDE RAIL



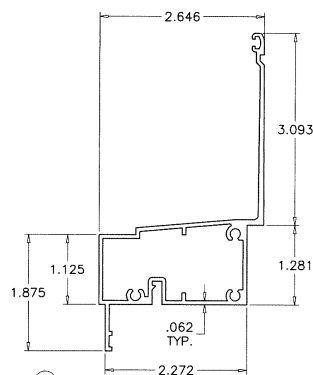
② FRAME SILL



(11) STD. MULLION

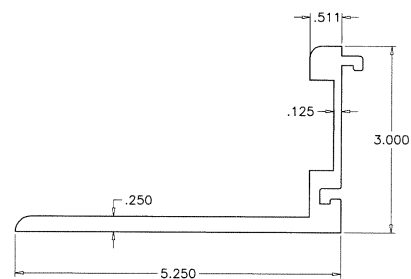


(11A) H.D. MULLION

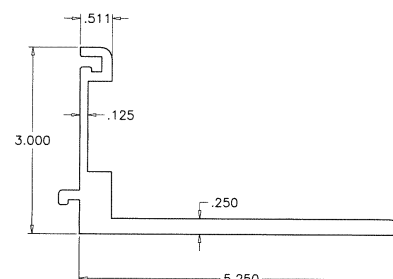


⑨  2.272

SILL MTG. RAIL W/ FIXED BOTTOM



14A FEMALE ANCHOR CLIP



14B MALE ANCHOR CLIP

Sealed: 2/29/2024

FL #46587



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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drawing no.		revisions:	
24-07F		no	by
sheet 10 of 10		date	description
date: 02-20-24			
scale: 1/2" = 1"			
dr. by: TARIQ			
chk. by:			