MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI–DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

SIW Solutions, LLC
975 S. Congress Avenue #102
Delray Beach, FL 33445

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "S-450" Aluminum Project Out Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W09-57**, titled "S-450 Aluminum Project Out Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 10/29/09, with revision **E** dated 12/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA No. 19-0131.10** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

1/24/20

NOA No. 19-1119.06
Expiration Date: February 10, 2025
Approval Date: January 30, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 09-1109.04)
2. Drawing No. **W09-57**, titled "S-450 Aluminum Project Out Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 10/29/09, with revision **E** dated 12/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under NOA No. 19-0131.10)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum project-out window, prepared by Hurricane Engineering and Testing, Inc., Test Reports No. **HETI-09-2627**, **HETI-09-2628, HETI-09-2629, HETI-09-2630,** and **HETI-09-2633**, dated 10/06/09, signed and sealed by Candido F. Font, P.E.
   (Submitted under NOA No. 09-1109.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)** dated 07/10/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under NOA No. 18-0116.13)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-1119.06
Expiration Date: February 10, 2025
Approval Date: January 30, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers"** dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, dated January 9, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under NOA No. 19-0131.10)
2. Laboratory compliance letters for Test Reports No. **HETI-09-2627**, **HETI-09-2628, HETI-09-2629, HETI-09-2630,** and **HETI-09-2633**, issued by Hurricane Test Laboratory, Inc., dated 08/15 to 26/09, signed and sealed by Candido F. Font, P.E.
   (Submitted under NOA No. 09-1109.04)
3. Asset purchase agreement dated December 28, 2018, signed by Mr. Abdiel Lopez and Mr. Steven G. Tourek.
   (Submitted under NOA No. 19-0131.10)
4. Letter from owners of existing NOA stating that they have sold all assets to the applicant, that they no longer manufacture the product and relinquish their rights to the current NOA, dated December 28, 2018, signed by Mr. Abdiel Lopez, Manager
   (Submitted under NOA No. 19-0131.10)

G. OTHERS

1. Notice of Acceptance No. **17-0918.04**, issued to SIW Impact Windows, LLC for their Series "S-450" Aluminum Project Out Window – L.M.I., approved on 11/02/17 and expiring on 02/10/20.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-1119.06
Expiration Date: February 10, 2025
Approval Date: January 30, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.

F. STATEMENTS

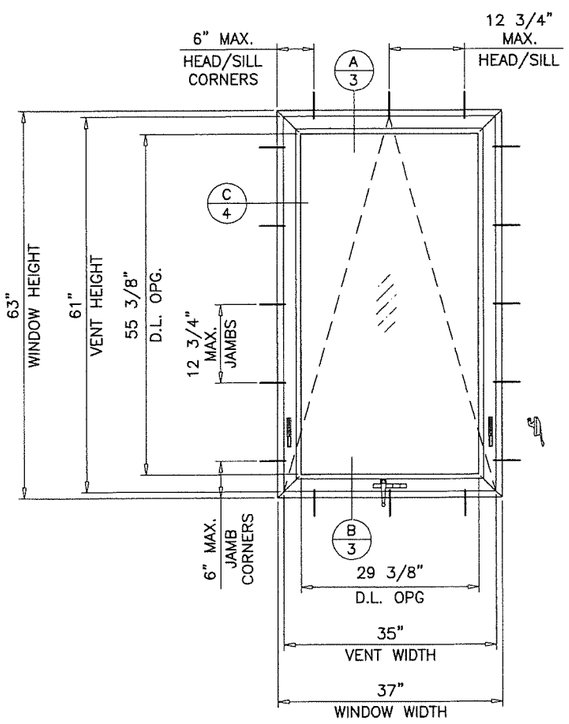
1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, dated November 12, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

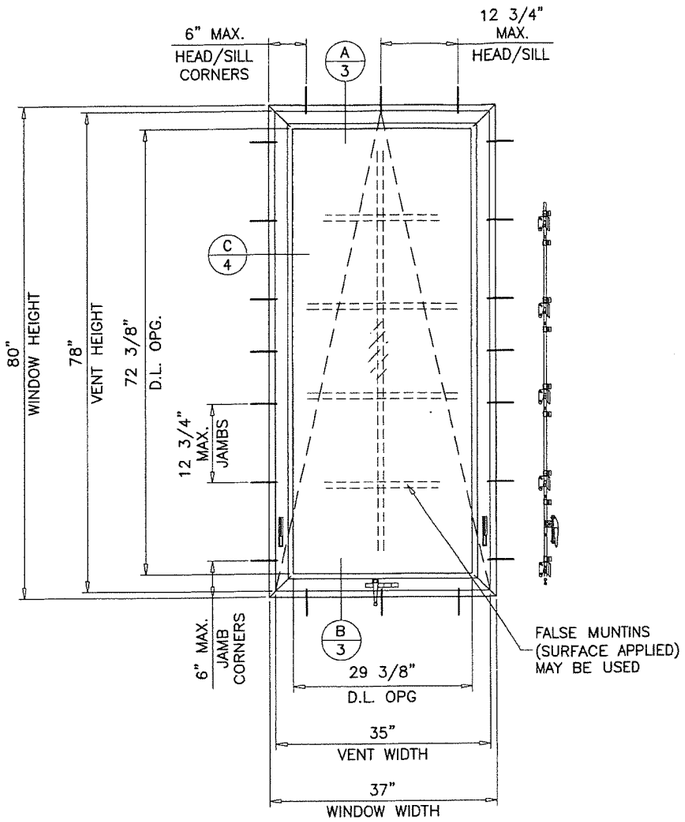
1. Notice of Acceptance No. **19-0131.10**, issued to SIW Impact Windows, LLC for their Series "S-450" Aluminum Project Out Window – L.M.I., approved on 03/28/19 and expiring on 02/10/20.

Manuel Perez

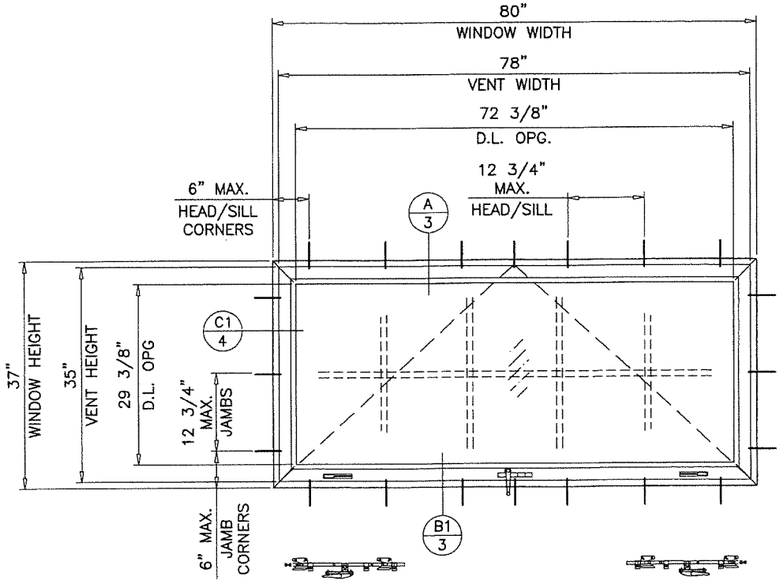
Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-1119.06
Expiration Date: February 10, 2025
Approval Date: January 30, 2020



TYPICAL ELEVATION
CAM LOCK AT EACH JAMB



TYPICAL ELEVATION
MULTI POINT LOCK AT EACH JAMB
MAX. WDW. WIDTH = 42 IN.
MIN. WDW. HEIGHT = 42 IN.



TYPICAL ELEVATION
DOUBLE MULTI POINT LOCK AT SILL
MIN. WDW. WIDTH = 42 IN.

SERIES S-450
ALUMINUM PROJECT OUT WINDOW

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

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF PROJECTED/PROJECTED OR PROJECTED WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY 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) 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 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.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 19-1119.06
Expiration Date Feb.10,2025
By Manuel Perez
Miami-Dade Product Control

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0131.10
Expiration Date Feb.10,2020
By Manuel Perez
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
Jan 8,2019
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\W09-57SIW

S-450 ALUMINUM PROJECT OUT WDW. (L.M.I.)

SIW Solutions, LLC,
975 S. CONGRESS AVE. #102
DELRAY BEACH, FL. 33445
TEL. (561) 274-9262 FAX. (561) 274-9392

revisions:			
no	date	by	description
A	01.2012		UPDATED TO 2010 FBC
B	08.21.14		UPDATED TO 2014 FBC
C	02.05.15		REV. PER RER COMMENTS
D	07.10.17		UPDATED TO 2017 FBC
E	12.05.18		COMPANY NAME REV.

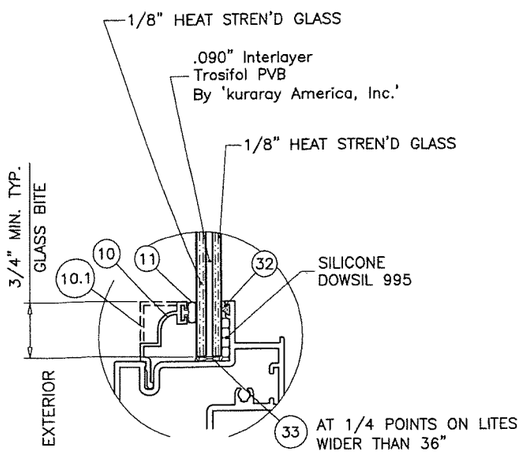
date: 10-29-09
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W09-57

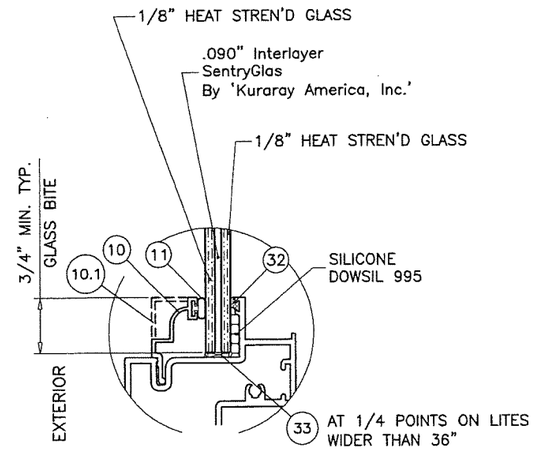
sheet 1 of 6

DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		WITH CAM LOCKS GLASS TYPES 'A', 'B', 'C' & 'D'		W/ MULTI POINT LOCKS GLASS TYPES 'B', 'C' & 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
19–1/8"	26–1/2"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		70.0	70.0	80.0	80.0
48"		70.0	70.0	80.0	80.0
53–1/8"		70.0	70.0	80.0	80.0
74"		55.0	55.0	80.0	80.0
80"		43.2	43.2	80.0	80.0
84"		37.1	37.1	80.0	80.0
19–1/8"	32"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		70.0	70.0	80.0	80.0
48"		70.0	70.0	80.0	80.0
53–1/8"		70.0	70.0	80.0	80.0
74"		–	–	80.0	80.0
80"		–	–	80.0	80.0
84"		–	–	77.6	77.6
19–1/8"	37"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		70.0	70.0	80.0	80.0
48"		70.0	70.0	80.0	80.0
53–1/8"		70.0	70.0	80.0	80.0
74"		–	–	80.0	80.0
80"		–	–	80.0	80.0
19–1/8"	38–3/8"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		70.0	70.0	80.0	80.0
48"		70.0	70.0	80.0	80.0
53–1/8"		70.0	70.0	80.0	80.0
74"		–	–	80.0	80.0
19–1/8"	50–5/8"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		70.0	70.0	80.0	80.0
48"		–	–	80.0	80.0
53–1/8"		–	–	80.0	80.0
19–1/8"	63"	70.0	70.0	80.0	80.0
26–1/2"		70.0	70.0	80.0	80.0
32"		70.0	70.0	80.0	80.0
37"		70.0	70.0	80.0	80.0
42"		–	–	80.0	80.0

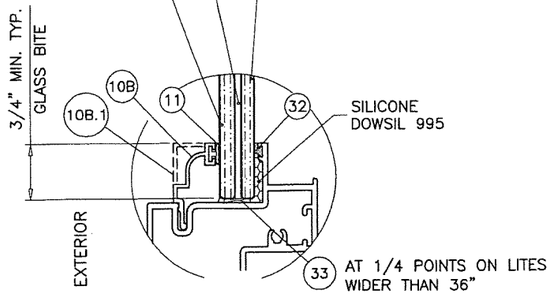
DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		WITH CAM LOCKS GLASS TYPES 'A', 'B', 'C' & 'D'		W/ MULTI POINT LOCKS GLASS TYPES 'B', 'C' & 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
19–1/8"	74–1/4"	70.0	70.0	80.0	80.0
26–1/2"		54.4	54.4	80.0	80.0
32"		–	–	80.0	80.0
37"		–	–	80.0	80.0
19–1/8"	80"	58.6	58.6	80.0	80.0
26–1/2"		43.2	43.2	80.0	80.0
32"		–	–	80.0	80.0
37"		–	–	80.0	80.0
19–1/8"	84"	50.5	50.5	80.0	80.0
26–1/2"		37.1	37.1	80.0	80.0
32"		–	–	77.6	77.6



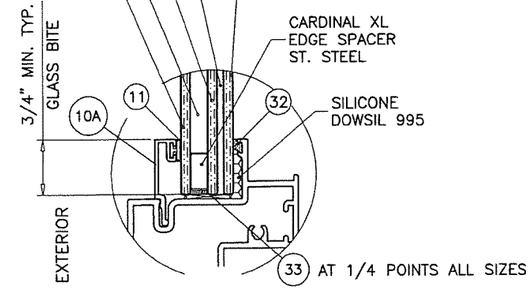
GLASS TYPE 'A'
11/32" OVERALL



GLASS TYPE 'B'
11/32" OVERALL



GLASS TYPE 'C'
7/16" OVERALL



GLASS TYPE 'D'
11/16" OVERALL

GLAZING OPTIONS

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

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 19-1119.06
Expiration Date Feb. 10, 2025
By Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
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Acceptance No. 19-0131.10
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By Manuel Perez
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
Jan 8, 2019
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

COMP–ANL\W09–57SIW

S–450 ALUMINUM PROJECT OUT WDW. (L.M.I.)

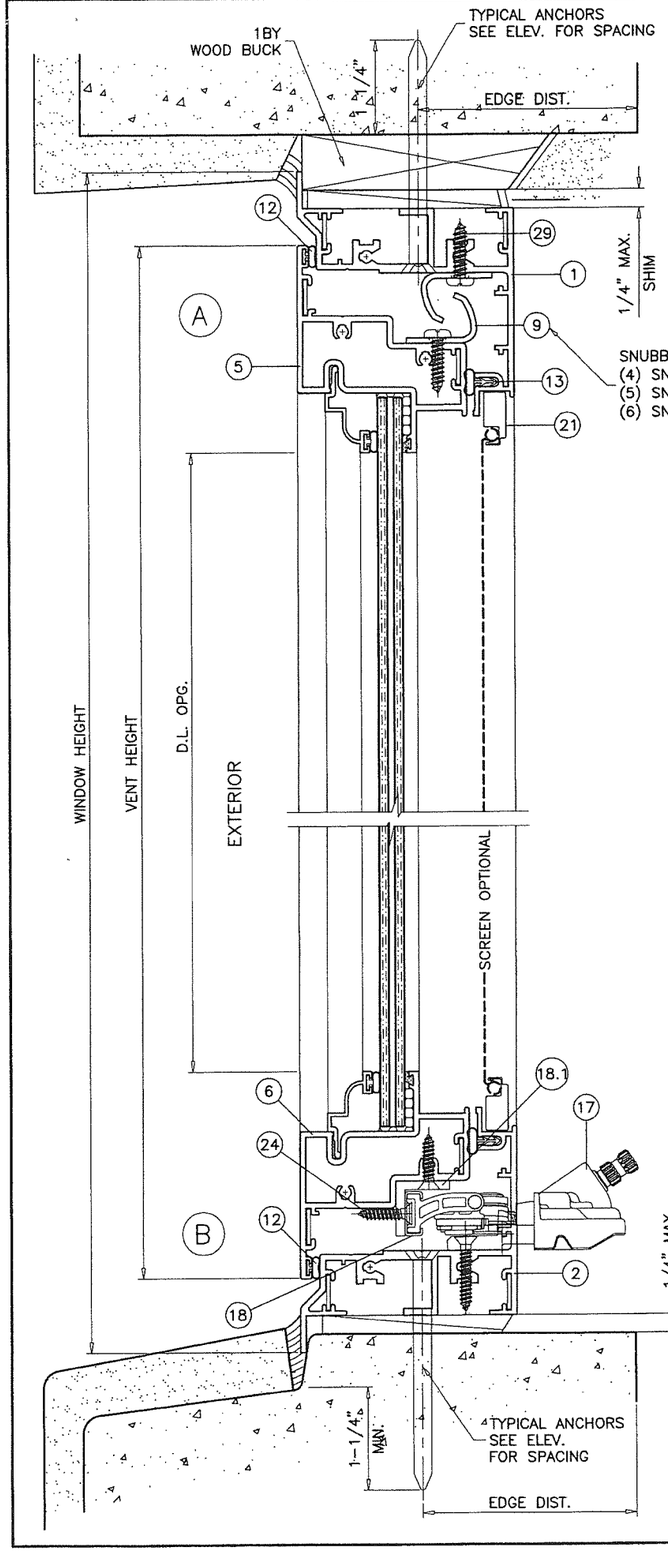
SIW Solutions, LLC.
975 S. CONGRESS AVE. #102
DELRAY BEACH, FL. 33445
TEL. (561) 274–9262 FAX. (561) 274–9392

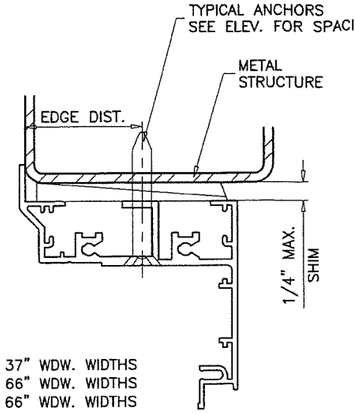
revisions:			
no	date	by	description
A	01.2012		UPDATED TO 2010 FBC
B	08.21.14		UPDATED TO 2014 FBC
C	02.05.15		NO CHANGE THIS SHEET
D	07.10.17		UPDATED TO 2017 FBC
E	12.05.18		COMPANY NAME REV.

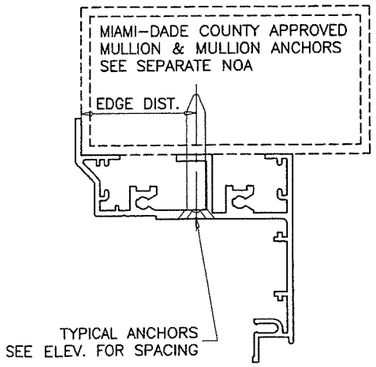
date: 10–29–09
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

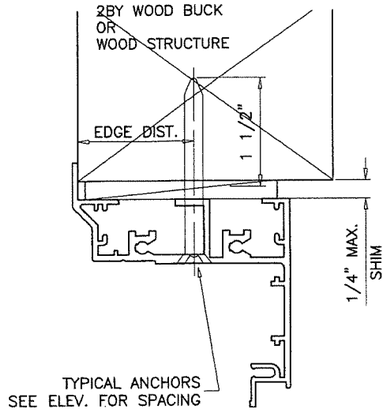
drawing no.
W09–57

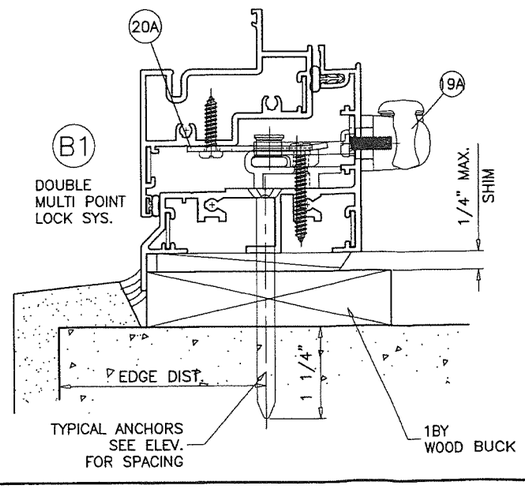
sheet 2 of 6











WOOD BUCKS AND METAL STRUCTURE NOT BY 'SIW SOLUTIONS' 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 'ELCO' (Fu=177 KSI, Fy=155 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 MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
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 MASONRY = 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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 19-1119.06
Expiration Date Feb. 10, 2023
By Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19.0131.10
Expiration Date Feb. 10, 2020
By Manuel Perez
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
Jan 8, 2019
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\W09-57SIW

S-450 ALUMINUM PROJECT OUT WDW. (L.M.I.)

SIW Solutions, LLC.
975 S. CONGRESS AVE. #102
DELRAY BEACH, FL. 33445
TEL. (561) 274-9392 FAX. (561) 274-9262

revisions:

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dr. by: TARIQ
chk. by:

drawing no.
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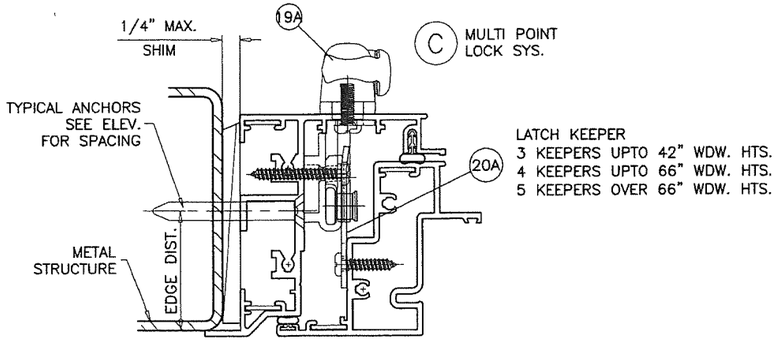
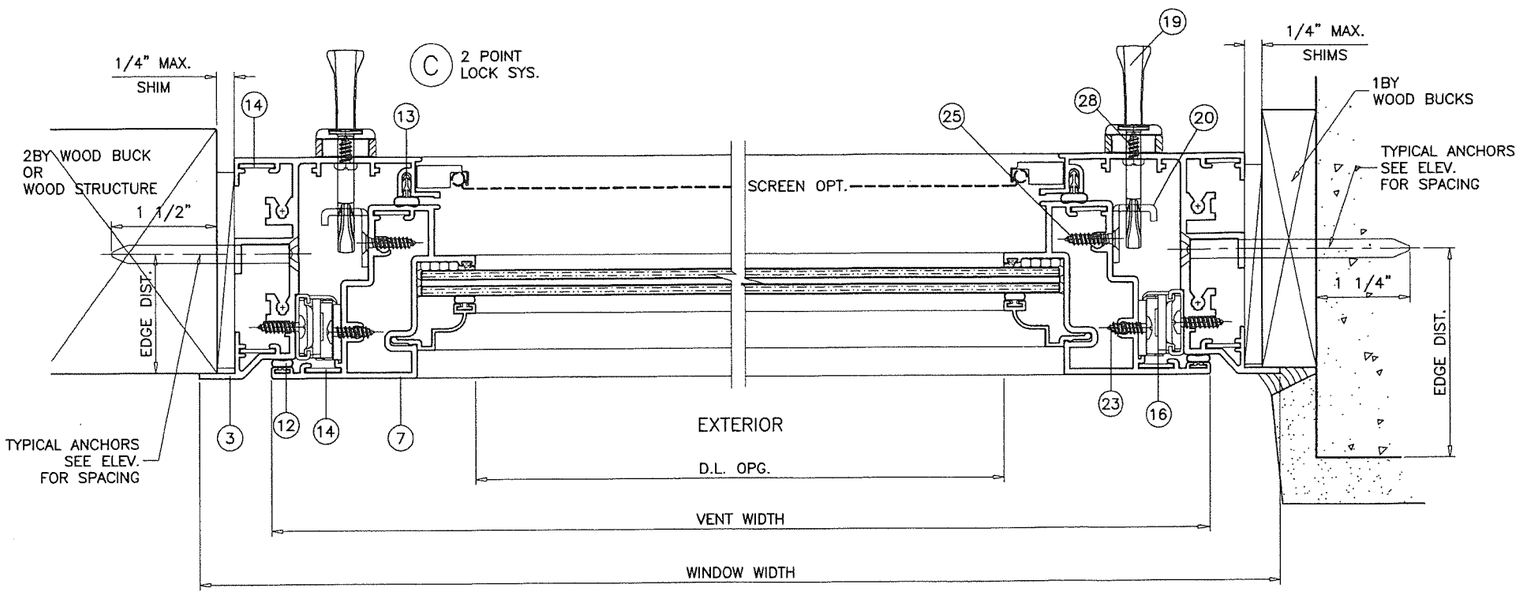
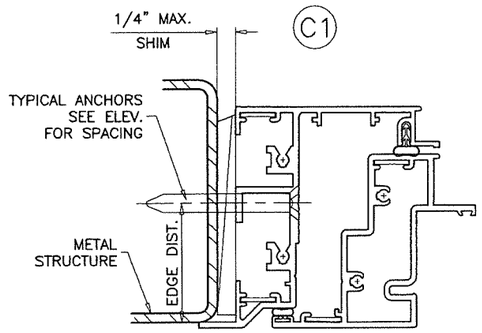
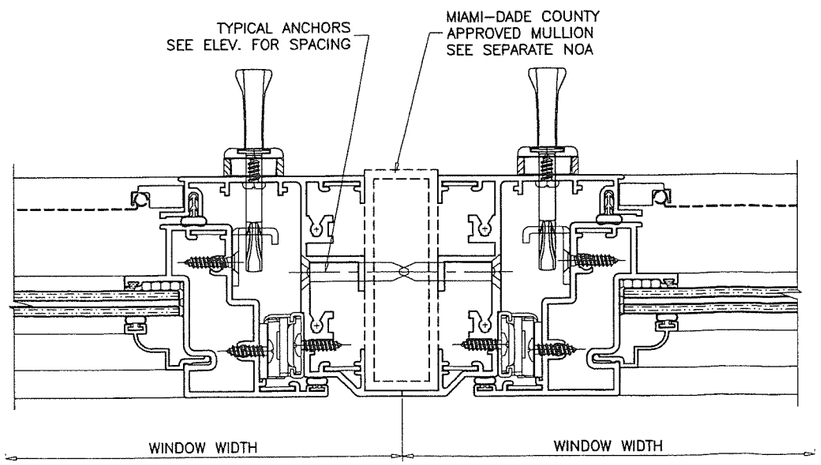
sheet 3 of 6









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ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW401	1	FRAME HEAD	6063–T6	–
2	SIW401	1	FRAME SILL	6063–T6	–
3	SIW401	1	FRAME JAMB	6063–T6	–
5	SIW402	1	VENT TOP RAIL	6063–T6	–
6	SIW402	1	VENT BOTTOM RAIL	6063–T6	–
7	SIW402	1	VENT SIDE RAIL	6063–T6	–
9	23138	AS REQD.	SNUBBER	ST. STEEL	TRUTH HARDWARE
10	SIW112	AS REQD.	GLAZING BEAD (5/16" GLASS)	6063–T6	–
10.1	SIW128	AS REQD.	ALT. GLAZING BEAD (5/16" GLASS)	6063–T6	–
10A	SIW117	AS REQD.	GLAZING BEAD (11/16" INSUL. GLASS)	6063–T6	–
10B	SIW108	AS REQD.	GLAZING BEAD (7/16" GLASS)	6063–T6	–
10B.1	–	AS REQD.	ALT. GLAZING BEAD (7/16" GLASS)	6063–T6	–
11	5531	AS REQD.	EXT. GLAZING SPACER, DUROMETER 70±5 SHORE A	SANTOPRENE	CENTRAL PLASTICS
12	9302	AS REQD.	OUTER COMPRESSION SEAL	–	CENTRAL PLASTICS
13	APT425	AS REQD.	INNER COMPRESSION SEAL	–	SCHLEGEL SYSTEMS
14	PJS40–SS	2/ CORNER	CORNER LOCK	ST. STEEL	SULLIVAN & ASSOCIATES
16	35.13	2/ WDW	4 BAR HINGES–HEAVY DUTY	ST. STEEL	TRUTH HARDWARE
17	51.1	1/ WDW	AWNING OPERATOR	–	TRUTH HARDWARE
17.1	32658	1	OPERATOR GASKET .062	–	TRUTH HARDWARE
17.2	32833	1	OPERATOR SPACER .236	–	TRUTH HARDWARE
18	41015	1/ OPER.	TRACK	ST. STEEL	TRUTH HARDWARE
18.1	–	1/ OPER.	3/4" X 3/4" X 1/8" ANGLE	ALUMINUM	–
19	24.25	2/ VENT	LOCK ASSEMBLY (SINGLE POINT LOCK SYS.)	–	TRUTH HARDWARE
19.1	21496	2/ VENT	SPACER (SINGLE POINT LOCK SYS.)	–	TRUTH HARDWARE
19A	24.23	2/ VENT	LOCK ASSEMBLY (MULTI POINT LOCK SYS.)	–	TRUTH HARDWARE
19A.1	21709	2/ VENT	SPACER (MULTI POINT LOCK SYS.)	–	TRUTH HARDWARE
19A.2	21600	1/ LOCK	SUPPORT PLATE (MULTI POINT LOCK SYS.)	–	TRUTH HARDWARE
20	31384	1/ LOCK	KEEPER (SINGLE POINT LOCK)	ST. STEEL	TRUTH HARDWARE
20A	31301	AS REQD.	KEEPER (MULTI POINT LOCK)	–	TRUTH HARDWARE
20A.1	24 SERIES	1	INTERLOCK ROLLER TIE BAR (MULTI POINT LOCK)	–	TRUTH HARDWARE
20A.2	32824	AS REQD.	TIE BAR GUIDE (MULTI POINT LOCK)	–	TRUTH HARDWARE
20A.3	–	2/ GUIDE	TIE BAR GUIDE MOUNTING SCREWS (MULTI POINT LOCK)	–	#10 X 1–1/4" FH SMS
21	–	1	5/16" BOX SCREEN	–	OPTIONAL
22	–	2/ CORNER	FRAME & VENT ASSY. SCREWS	CRS	#10 x 1–1/4" FH SMS
23	–	6/HINGE	HINGE MOUNTING SCREWS	–	#10 x 3/4" FH SMS
24	–	2/OPERATOR	OPERATOR TRACK MTG. SCREWS	–	#10 x 3/4" FH SMS
25	–	2/KEEPER	KEEPER MOUNTING SCREWS	–	#10 x 3/4" FH SMS
27	–	6/OPERATOR	OPERATOR MOUNTING SCREWS	–	#10 X 1–1/4" FH SMS
28	–	2/LOCK	LOCK ASSEMBLY MOUNTING SCREWS	–	#10–24 X 1/2" FH MS TYPE F
29	–	2/SNUBBER	SNUBBER MTG. SCREW	–	#10 x 3/4" FH SMS
32	5530	AS REQD.	INTERIOR GLAZING SPACER, DUROMETER 70±5 SHORE A	SANTOPRENE	CENTRAL PLASTICS
33	–	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A

SEALANTS:

ALL FRAME AND VENT CORNERS SEALED WITH SCHNEE MOREHEAD SM–5504 SEALANT.

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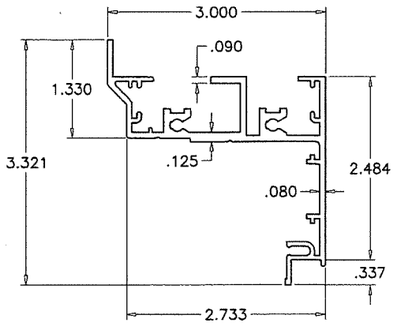
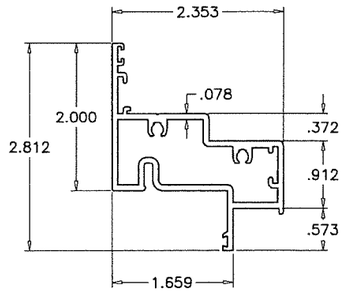
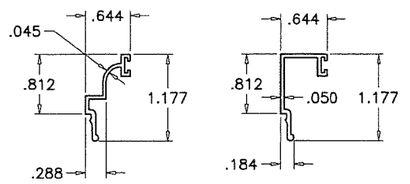


(1)(2)(3) FRAME

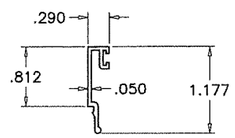


(5)(6)(7) VENT



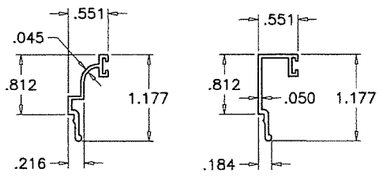
(10) (10.1)

GLAZING BEADS (5/16" GLASS)



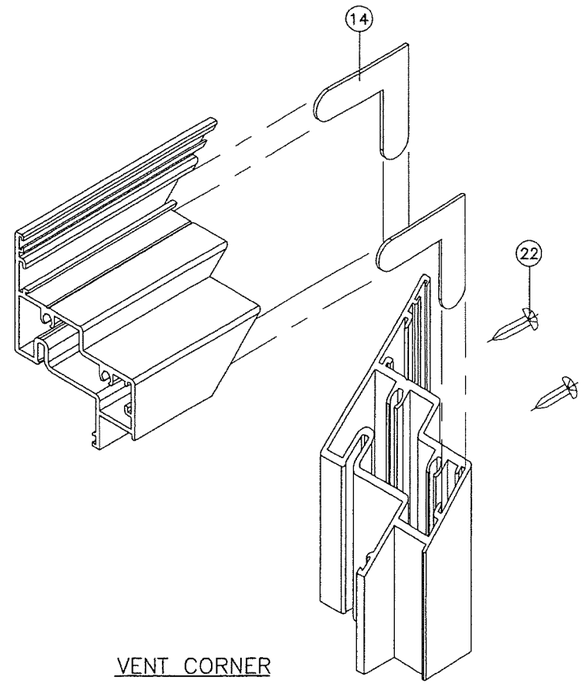
(10A)

GLAZING BEAD (11/16" INSUL. GLASS)

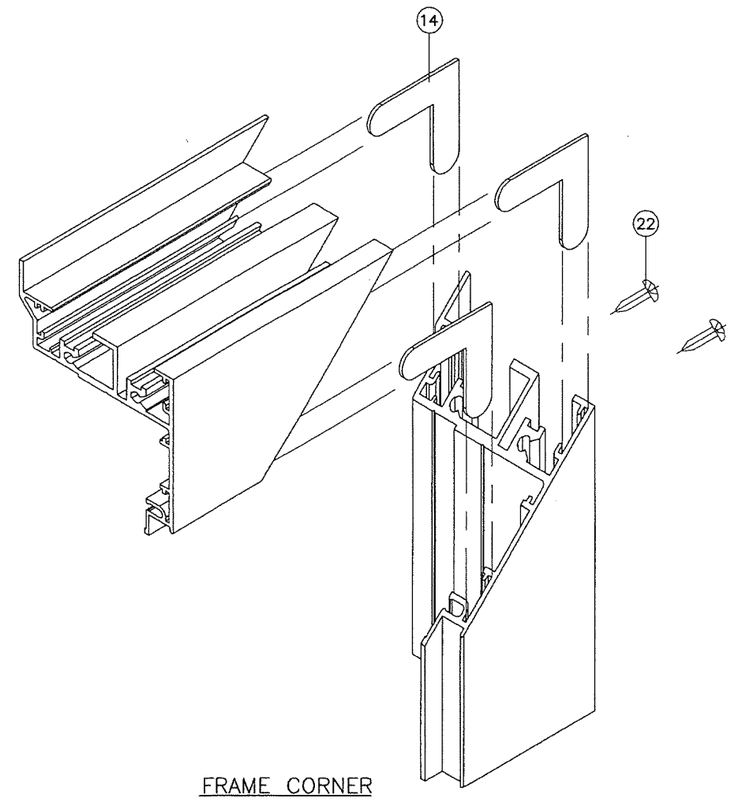


(10B) (10B.1)

GLAZING BEADS (7/16" GLASS)



VENT CORNER



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