MIAMI-DADE COUNTY
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

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

NOTICE OF ACCEPTANCE (NOA)

Eurotech Industries, Inc.
4201 NE 12th Terrace
Ft. Lauderdale, FL 33334

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 "80 HW" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W11–17**, titled "Series 80 HW Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 04/01/11, with revision **F** dated 06/16/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision 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 **revises NOA No. 20-1203.05** and consists of this page 1 and evidence pages E-1, E-2 and E-3, and Green Sustainable Attributes (G.S.A.) page G-1, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

7/11/23

NOA No. 23-0622.04
Expiration Date: July 07, 2026
Approval Date: July 20, 2023

Eurotech Industries, Inc.

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. 11-0426.01)

2. Drawing No. **W11–17**, titled "Series 80 HW Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 04/01/11, with revision **E** dated 11/05/2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1203.05)

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, TAS 202-94
along with marked-up drawings and installation diagram of a series 80 HW single hung window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0310.01-11**, dated 03/28/11, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA No. 11-0426.01)

C. CALCULATIONS

1. Anchor verification calculations, complying with **FBC 7h Edition *(*2020)**, dated 11/12/20, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 20-1203.05)

2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.

2. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 11/19/20, expiring on 07/04/23.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0622.04
Expiration Date: July 07, 2026
Approval Date: July 20, 2023

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th** Edition (**2017**), with **FBC 7th** Edition (**2020**), and of no financial interest, dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1203.05)

2. Laboratory compliance letter for Test Report No. **ATLSF-0310.01-11** issued by American Test Lab of South Florida, dated 03/28/11, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA No. 11-0426.01)

3. Proposal No. **09-0094** issued by Product Control, dated 12/10/10, signed by Jaime D. Gascon, P.E.
(Submitted under NOA No. 11-0426.01)

G. OTHERS

1. Notice of Acceptance No. **17-1218.18**, issued to Eurotech Industries, Inc. for their Series "80 HW" Aluminum Single Hung Window - L.M.I., approved on 01/28/18 and expiring on 07/07/21.

2. Thermal Simulation Performance, Solar Heat Gain Coefficient, Visible Transmittance, & Condensation Resistance Calculation Report on:

1) **NFRC 100-2010** "Procedure for Determining Fenestration Product U–Factors"

2) **NFRC 200-2010** "Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence"

3) **NFRC 500-2010** "Procedure for Determining Fenestration Product Condensation Resistance Values"

Using computer simulation in accordance with NFRC: Frame and Edge Modeling: THERM 6.3.38, WINDOW v6.3.74, NFRC Simulation Manual; Optics 6, of an Eurotech Industries, Inc. Series "80 HW" Aluminum Single Hung Window, along with attached drawings and bill of materials included in Appendix, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-8470,** pages 1 through 6 of 6, dated 06/22/15, simulation conducted and signed by Jose Sanchez, NFRC Certified Simulator, and Simulator-In-Responsible-Charge.
(Submitted under NOA No. 15-0416.02)

3. NFRC 102-2010 Thermal Performance Test Report on: Series "80 HW" Aluminum Single Hung Window with Cardinal Low E 340 on surface #2, e=0.028 glass and Argon gas, along with submittal component drawings, with applicable part numbers, manufacturing and modeling details included in Appendix, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-8357,** pages 1 through 7 of 7, dated 04/21/15, test performed and signed by Jose Sanchez, Person-In-Responsible-Charge.
(Submitted under NOA No. 15-0416.02)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0622.04
Expiration Date: July 07, 2026
Approval Date: July 20, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W11–17**, titled "Series 80 HW Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 04/01/11, with revision **F** dated 06/16/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.

2. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020),** with **FBC 8th Edition (2023)** and of no financial interest, dated June 16, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-1203.05**, issued to Eurotech Industries, Inc., for their Series "80 HW" Aluminum Single Hung Window – L.M.I., approved on 02/25/21 and expiring on 07/07/26.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0622.04
Expiration Date: July 07, 2026
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Eurotech Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

GREEN SUSTAINABLE ATTRIBUTES (GSA)

SCOPE: The table below is solely based on Test Report Nos. **FTL-8470** and **FTL-8357** submitted to Miami-Dade County Product Control.

G.8 – U–FACTOR (THERMAL TRANSMITTANCE) BTU/ HR–FT^2–^{0}F
G.9 – SHGC (SOLAR HEAT GAIN COEFFICIENT) BTU/ HR–FT^2
VT – VISIBLE LIGHT TRANSMITTANCE AT NORMAL INCIDENCE
CR – CONDENSATION RATING

ID#	Test Report #:	Product Number	Glazing Components:	G.8: U-Factor	G.9: SHGC	VT	CR	Glass Type Approved in this NOA Approval
	FTL-8357	**01**	3/16 LoE 340 - ARG - 3/16 CLR - 090 PVB – 3/16" CLR	0.59	0.15	0.26	19	No
1	**FTL-8470**	**1**	3/16" LoE 340 – ARG - 3/16" CLR - 090 PVB - 3/16" CLR	0.59	0.15	0.26	19	No
2		**2**	3/16" LoE 366 – ARG - 3/16" CLR - 090 PVB - 3/16" CLR	0.59	0.21	0.43	19	No
3		**3**	3/16" LoE 366 – ARG - 3/16" CLR - 090 PVB - 3/16" i89	0.56	0.21	0.43	19	No
4		**4**	3/16" LoE 366 - 090 PVB - 3/16" i89	0.86	0.23	0.42	10	Yes
5		**5**	3/16" LoE 340 - 090 PVB - 3/16" i89	0.86	0.19	0.26	10	Yes
6		**6**	3/16" Solexia - 090 PVB - 3/16" clear	1.09	0.44	0.55	16	Yes
7			3/16" CLR -030 CLR PVB-030 GRY PVB-030 CLR PVB-3/16" CLR	1.09	0.44	0.30	16	Yes
8			3/16" CLR -030 CLR PVB-030 BRZ PVB-030 CLR PVB-3/16" CLR	1.09	0.43	0.34	16	Yes
9			3/16" CLR -090 CLR PVB-3/16" CLR	1.09	0.54	0.61	16	Yes
10		**7**	3/16" LoE 366-090 PVB-3/16" CLR	1.09	0.27	0.43	16	Yes
11			3/16" GRY-090 PVB-3/16" LoE 366	1.09	0.28	0.25	16	Yes
12		**8**	/16" LoE 340-090 PVB-3/16" CLR	1.09	0.23	0.26	16	Yes
13		**9**	3/16" CRL-ARG-3/16" CLR -030 CLR PVB-030 GRY PVB-030 CLR PVB-3/16" CLR	0.74	0.47	0.27	19	No
14			3/16" CRL-ARG-3/16" CLR -030 CLR PVB-030 GRY PVB-030 CLR PVB-3/16" CLR	0.74.	0.47	0.30	19	No
15			3/16" CLR-ARG-3/16" CLR -090 PVB-3/16" CLR	0.74.	0.51	0.55	19	No

Legend	
Abbreviations:	**Description:**
LoE 340	Cardinal Low E 340 @ #2 Surface Typical e-0.028
LoE 366	Cardinal Low E 366 @ #2 Surface Typical e=0.022
i89	Cardinal Low E i89 e=0.149
ARG	90% Argon gas
PVB	Poly Vinyl Butryal (PVB) interlayer
CLR	Clear
BRZ	Bronze
GRY	Gray

G.10 – C–FACTOR (THERMAL CONDUCTANCE) BTU/ HR–FT^2–^{0}F

Component Name	C–Value
1. Whole Window	1.71

Manuel Perez

Manuel Perez, P.E.
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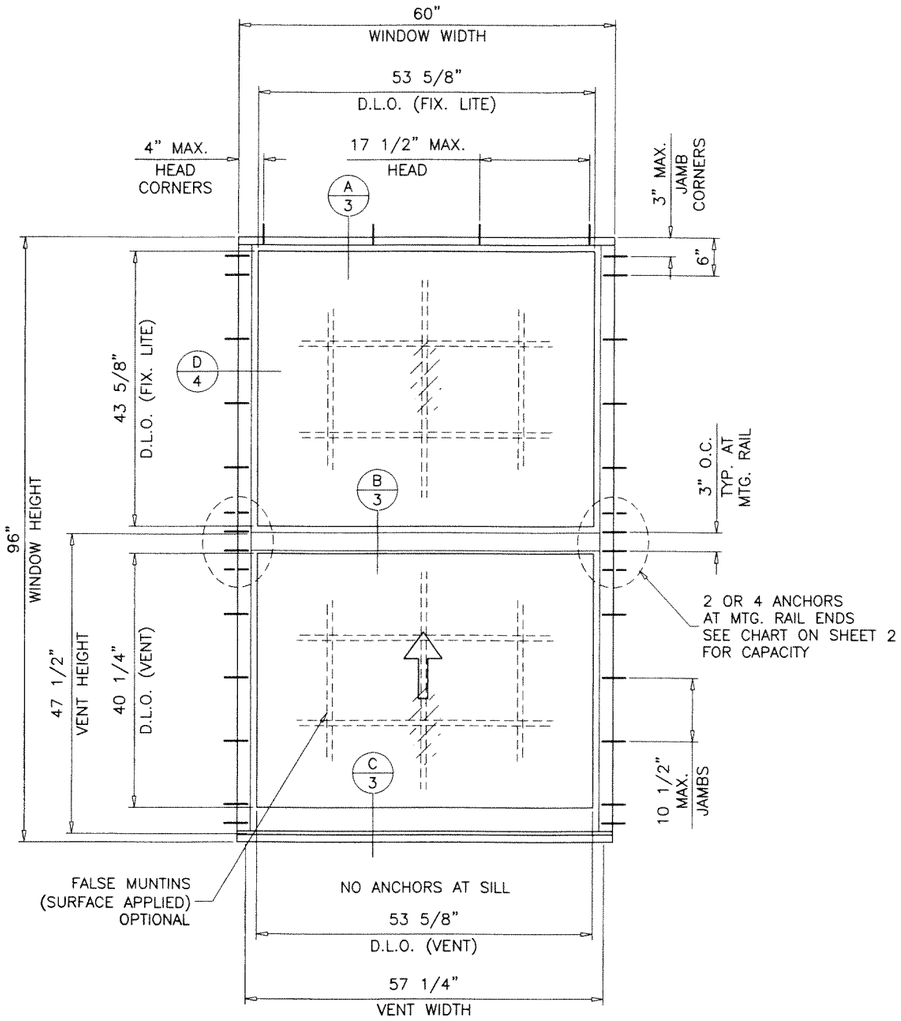


TYPICAL ELEVATIONS
TESTED UNITS

SERIES 80 HW
ALUMINUM SINGLE HUNG 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 S.H./S.H. OR SINGLE HUNG 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 2020 (7TH EDITION)/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 2020/2023 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)'.

PRODUCT REVISED
As complying with the Florida Building Code
NOA–No. 23-0622.04
Expiration Date: 07/07/2026
By: Manuel Perez JUN 16 2023
Miami–Dade Product Control

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

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP–ANL\W11–17EWD

SERIES 80 HW ALUM SINGLE HUNG WDW. (L.M.I.)

Eurotech Industries Inc.
4201 N.E. 12th Terrace
Oakland Park, Florida 33334
Tel. (954) 630–9967 Fax. (954) 630–0217

revisions:

no	date	by	description
C	08.12.15		UPDATED TO 2014 FBC
D	11.29.17		UPDATED TO 2017 FBC
E	11.05.20		UPDATED TO 2020 FBC
F	06.16.23		UPDATED TO 2023 FBC

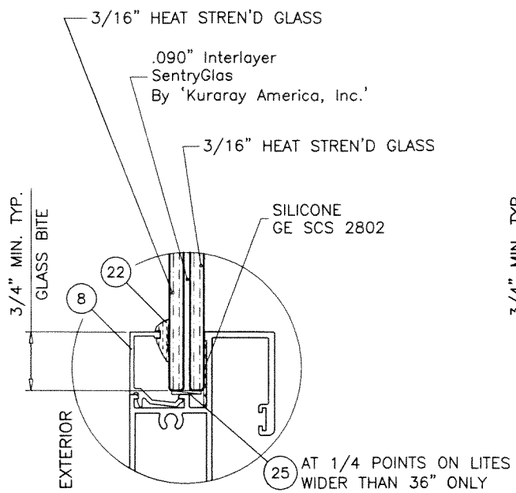
date: 04–01–11
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no.
W11–17

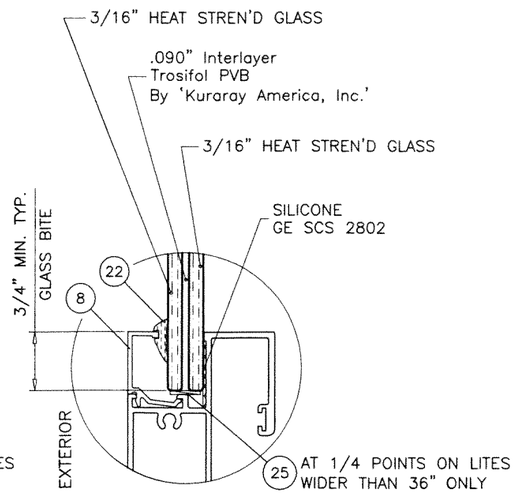
sheet 1 of 6

DESIGN LOAD CAPACITY – PSF GLASS TYPES 'A', 'B', 'C' & 'D'					
WINDOW DIMS.		2 ANCHORS AT MTG. RAILS		4 ANCHORS AT MTG. RAILS	
WIDTH	LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
26–1/2"	26"	90.0	140.0	90.0	140.0
32"		90.0	140.0	90.0	140.0
37"		90.0	140.0	90.0	140.0
42"		90.0	140.0	90.0	140.0
48"		90.0	140.0	90.0	140.0
53–1/8"		90.0	135.3	90.0	140.0
26–1/2"	38–3/8"	90.0	140.0	90.0	140.0
32"		90.0	140.0	90.0	140.0
37"		90.0	140.0	90.0	140.0
42"		90.0	138.1	90.0	140.0
48"		90.0	113.7	90.0	140.0
53–1/8"		90.0	98.9	90.0	140.0
26–1/2"	50–5/8"	90.0	140.0	90.0	140.0
32"		90.0	140.0	90.0	140.0
37"		90.0	140.0	90.0	140.0
42"		90.0	117.5	90.0	140.0
48"		90.0	94.7	90.0	140.0
53–1/8"		81.3	81.3	90.0	138.2
26–1/2"	63"	90.0	140.0	90.0	140.0
32"		90.0	140.0	90.0	140.0
37"		90.0	127.6	90.0	140.0
42"		90.0	107.7	90.0	140.0
48"		84.6	84.6	90.0	123.0
53–1/8"		71.4	71.4	90.0	111.1
26–1/2"	74–1/4"	90.0	140.0	90.0	140.0
32"		90.0	140.0	90.0	140.0
37"		90.0	135.3	90.0	140.0
42"		90.0	104.9	90.0	140.0
48"		79.8	79.8	90.0	125.2
53–1/8"		66.3	66.3	90.0	113.1

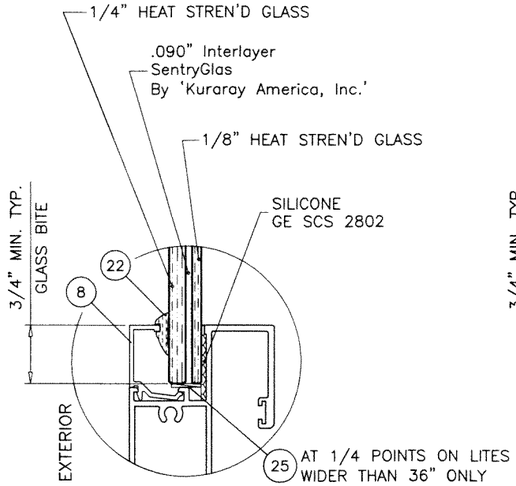
DESIGN LOAD CAPACITY – PSF GLASS TYPES 'A', 'B', 'C' & 'D'					
WINDOW DIMS.		2 ANCHORS AT MTG. RAILS		4 ANCHORS AT MTG. RAILS	
WIDTH	LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	48"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	140.0	90.0	140.0
42"		90.0	120.7	90.0	140.0
48"		90.0	97.8	90.0	140.0
54"		82.3	82.3	90.0	140.0
60"		71.0	71.0	90.0	129.1
24"	54"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	140.0	90.0	140.0
42"		90.0	114.0	90.0	140.0
48"		90.0	91.3	90.0	140.0
54"		76.2	76.2	90.0	127.5
60"		65.3	65.3	90.0	114.8
24"	60"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	137.7	90.0	140.0
42"		90.0	109.4	90.0	140.0
48"		86.5	86.5	90.0	129.1
54"		71.5	71.5	90.0	114.8
60"		61.0	61.0	90.0	103.3
24"	72"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	140.0	90.0	140.0
42"		90.0	105.0	90.0	140.0
48"		80.5	80.5	90.0	129.1
54"		65.2	65.2	90.0	114.8
60"		54.8	54.8	90.0	103.3
24"	84"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	123.0	90.0	140.0
42"		90.0	104.8	90.0	126.5
48"		78.1	78.1	90.0	110.7
54"		61.8	61.8	90.0	98.4
60"		51.1	51.1	90.0	88.5
24"	96"	90.0	140.0	90.0	140.0
30"		90.0	140.0	90.0	140.0
36"		90.0	129.1	90.0	140.0
42"		90.0	104.8	90.0	129.1
48"		78.0	78.0	90.0	113.0
54"		60.4	60.4	90.0	100.4
60"		48.9	48.9	90.0	90.4



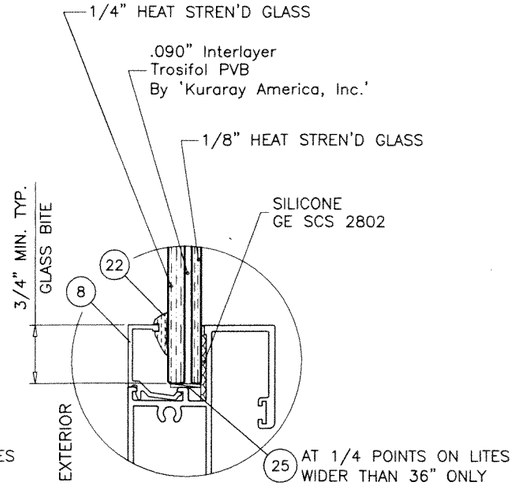
GLASS TYPE 'A'



GLASS TYPE 'B'



GLASS TYPE 'D'



GLASS TYPE 'C'

GLAZING OPTIONS

PRODUCT REVISED
As complying with the Florida Building Code
NOA–No. 23-0622.04
Expiration Date: 07/07/2026
By: Manuel Perez
Miami–Dade Product Control

JUN 10 2023

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

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP–ANL\W11–17EWD

SERIES 80 HW ALUM SINGLE HUNG WDW. (L.M.I.)

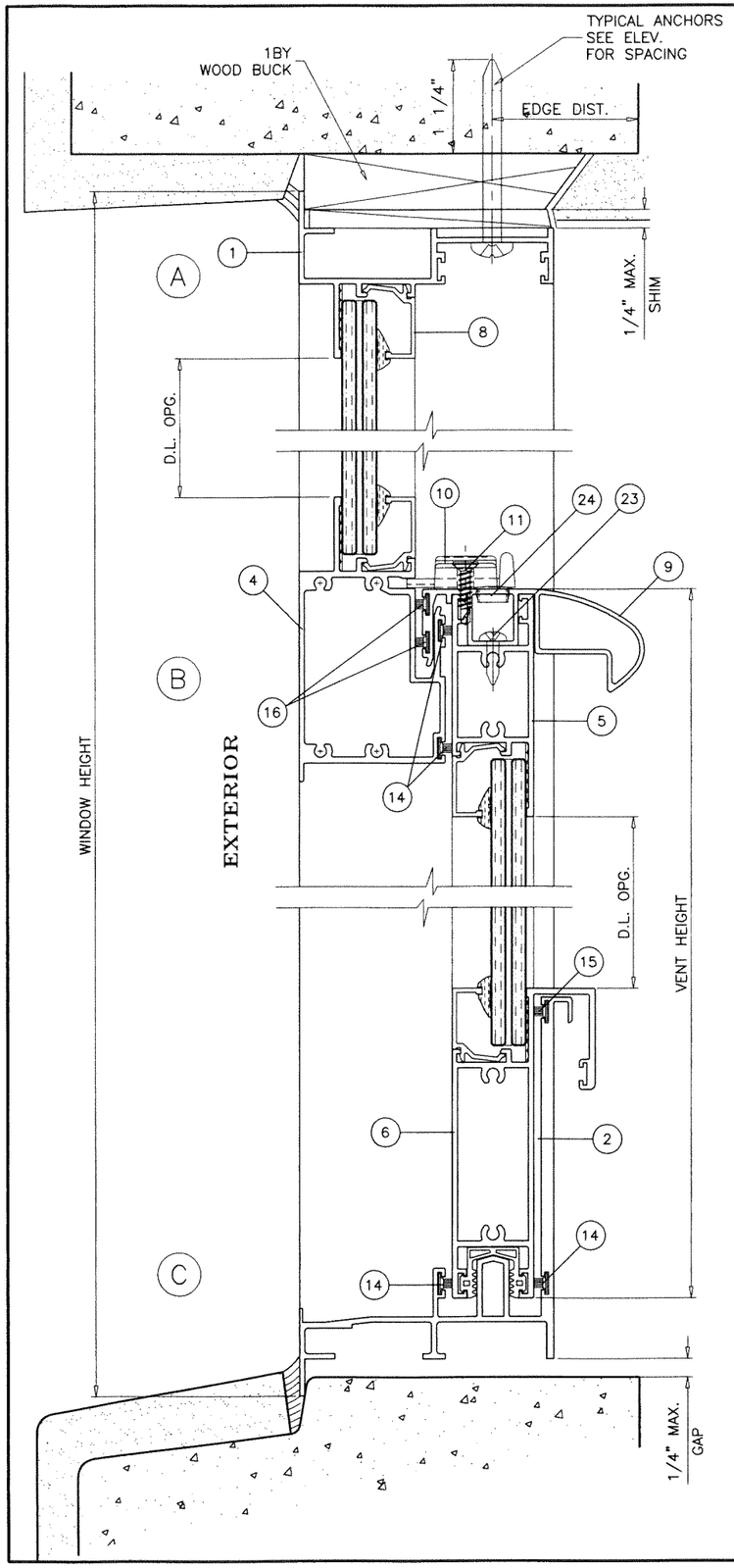
Eurotech Industries Inc.
4201 N.E. 12th Terrace
Oakland Park, Florida 33334
Tel. (954) 630–9967 Fax. (954) 630–0217

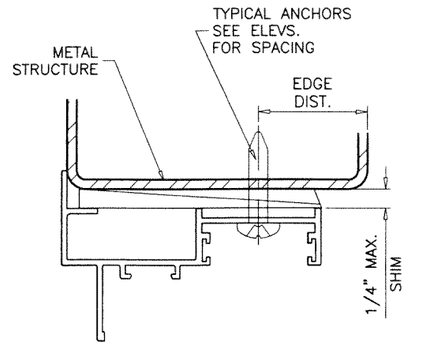
revisions:			
no	date	by	description
C	08.12.15		UPDATED TO 2014 FBC
D	11.29.17		UPDATED TO 2017 FBC
E	11.05.20		UPDATED TO 2020 FBC
F	06.16.23		NO CHANGE THIS SHEET

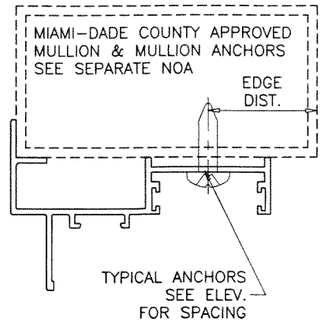
date: 04–01–11
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

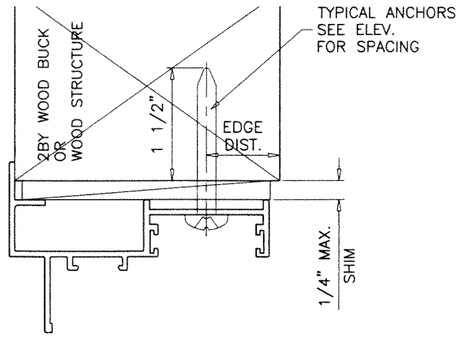
drawing no. W11–17

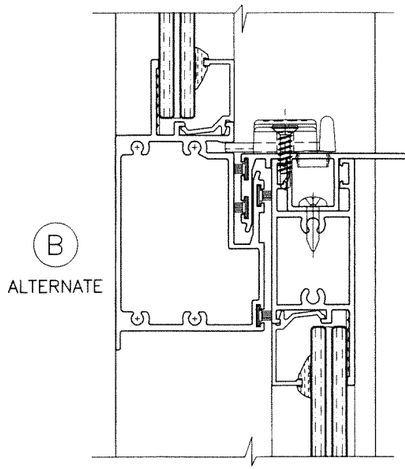
sheet 2 of 6











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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD OR JAMBS f'c = 3000 PSI MIN. C-90
HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH GE SILICONE SEALANT.

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JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\W11-17EWD

SERIES 80 HW ALUM SINGLE HUNG WDW. (L.M.I.)

Eurotech Industries Inc.
4201 N.E. 12th Terrace
Oakland Park, Florida 33334
Tel. (954) 630-9967 Fax. (954) 630-0217

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chk. by:

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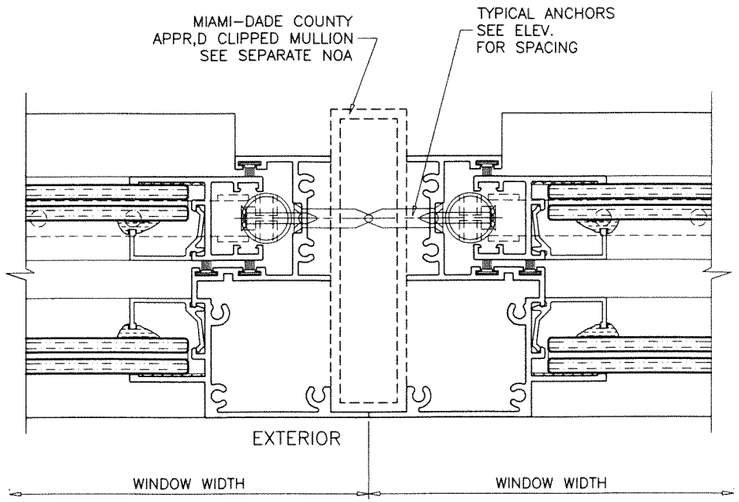

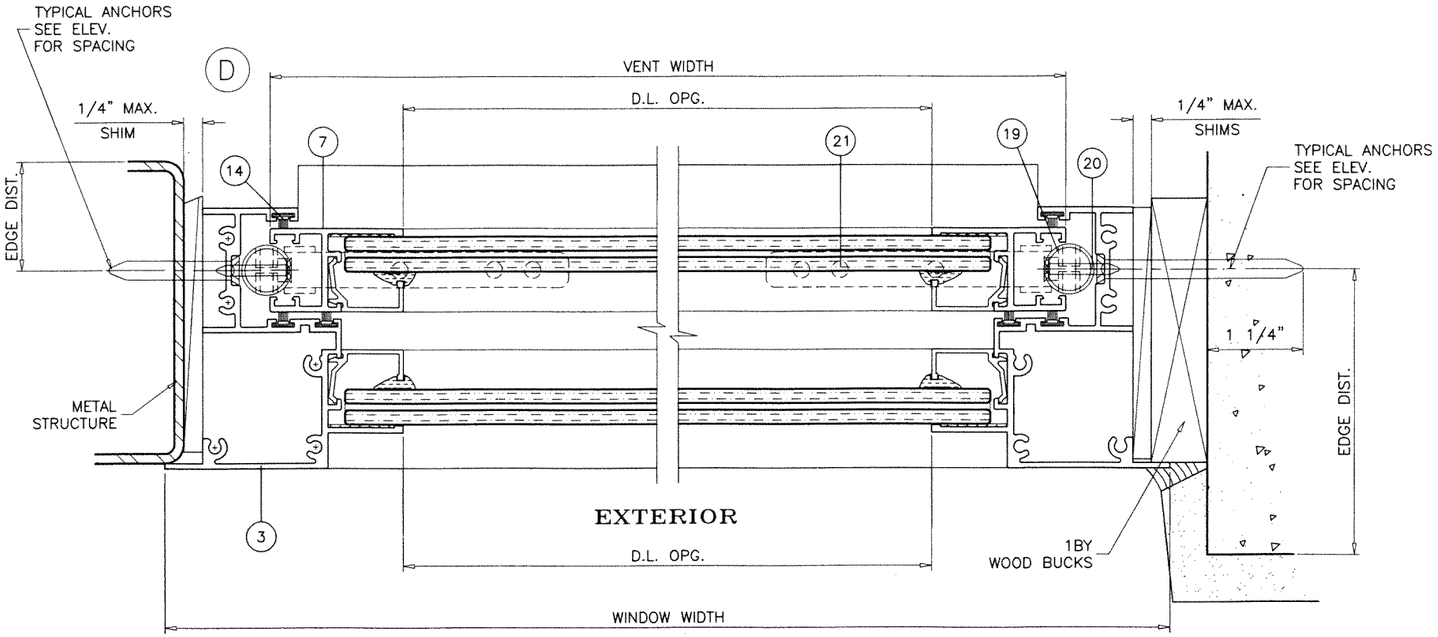

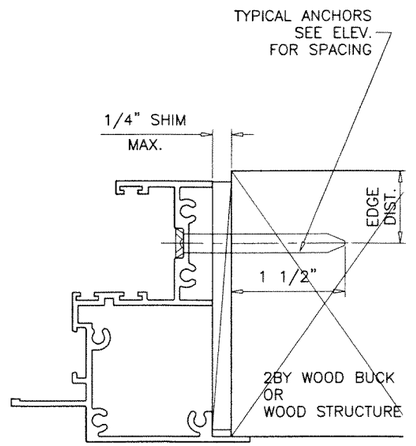

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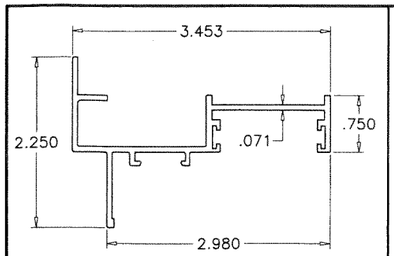
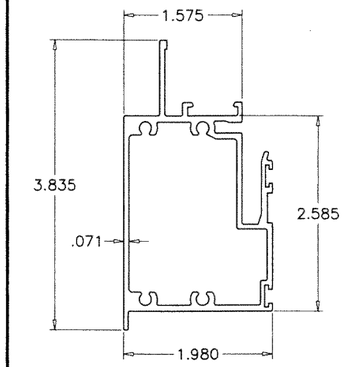
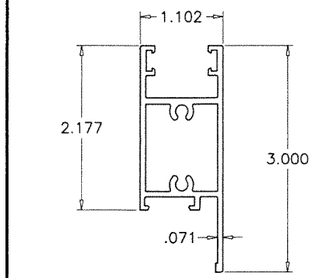


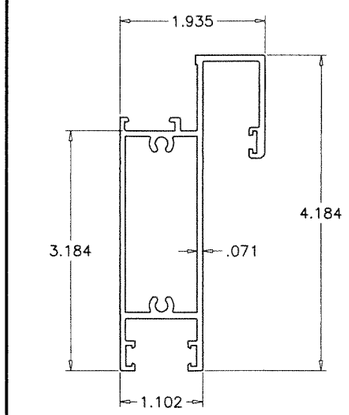
(1) FRAME HEAD



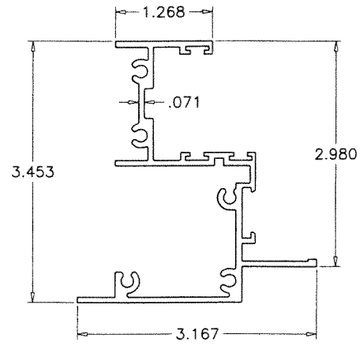
(4) FIX. MEETING RAIL



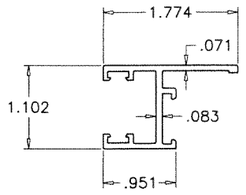
(5) VENT TOP RAIL



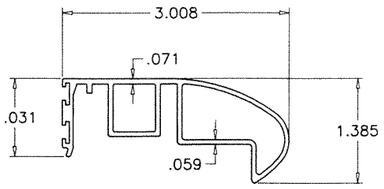
(6) VENT BOTTOM RAIL



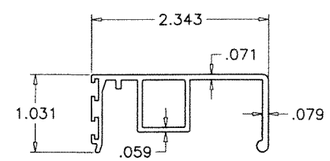
(3) FRAME JAMB



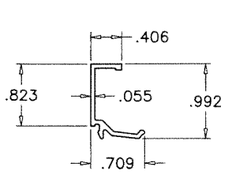
(7) VENT SIDE RAIL



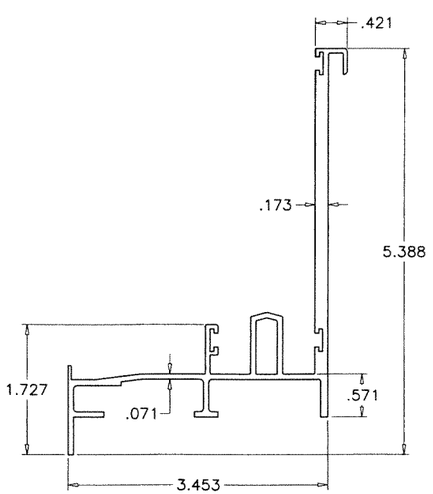
(9) VENT TOP RAIL CAP



(9A) ALT. VENT TOP RAIL CAP



(8) GLAZING BEAD



(2) FRAME SILL

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	HW002	1	FRAME HEAD	6063–T5	–
2	HW001	1	FRAME SILL	6063–T5	–
3	HW003	2	FRAME JAMB	6063–T5	–
4	HW014	1	FIXED MTG. RAIL	6063–T5	–
5	HW004	1	VENT TOP RAIL	6063–T5	–
6	HW006	1	VENT BOTTOM RAIL	6063–T5	–
7	HW005	2	VENT SIDE RAIL	6063–T5	–
8	HW010	AS RQD.	GLAZING BEAD	6063–T5	–
9	HW015	2/VENT	VENT TOP RAIL CAP	6063–T5	–
9A	HW008	2/VENT	ALT. VENT TOP RAIL CAP	6063–T6	–
10	7538	2/VENT	SWEEP LATCH, AT 14" FROM ENDS	ZAMAK	–
11	#8 X 1"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
12	#10 X 3/4"	AS REQD.	FRAME HEAD & VENT ASSEMBLY SCREWS	CRS	PH SMS
13	#10 X 1–1/4"	AS REQD.	FRAME SILL ASSEMBLY SCREWS	CRS	P PH TEK SCREWS
14	270X220	AS REQD.	FIN SEAL W'STRIPPING	–	ULTRAFAB
15	270X340	AS REQD.	FIN SEAL W'STRIPPING	–	ULTRAFAB
16	271X220	AS REQD.	FIN SEAL W'STRIPPING	–	ULTRAFAB
17	–	4/ VENT	SASH GUIDE	RIGID PVC	M&M PLASTICS
18	#6 X 1/2"	1/ GUIDE	SASH GUIDE INST. SCREW	CRS	P PH SMS
19	F 210	2/VENT	SASH BALANCE	–	SUPERBOOST BY BSI
20	#10 X 1–1/2"	1/ BALANCE	BALANCE INST. SCREW	–	P PH TEK SCREW
21	–	1/ BALANCE	F–BRACKET FOOT	–	–
22	–	AS REQD.	WEDGE GASKET	EPDM	DUROMETER ±75 SHORE A
23	#10 X 3/4"	3/ CAP	CAP INSTALLATION SCREWS, AT 6" FROM ENDS & AT MIDSPAN	–	P PH TEK SCREWS
24	–	AS REQD.	DUST PLUG (OPTIONAL)	–	–
25	–	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A

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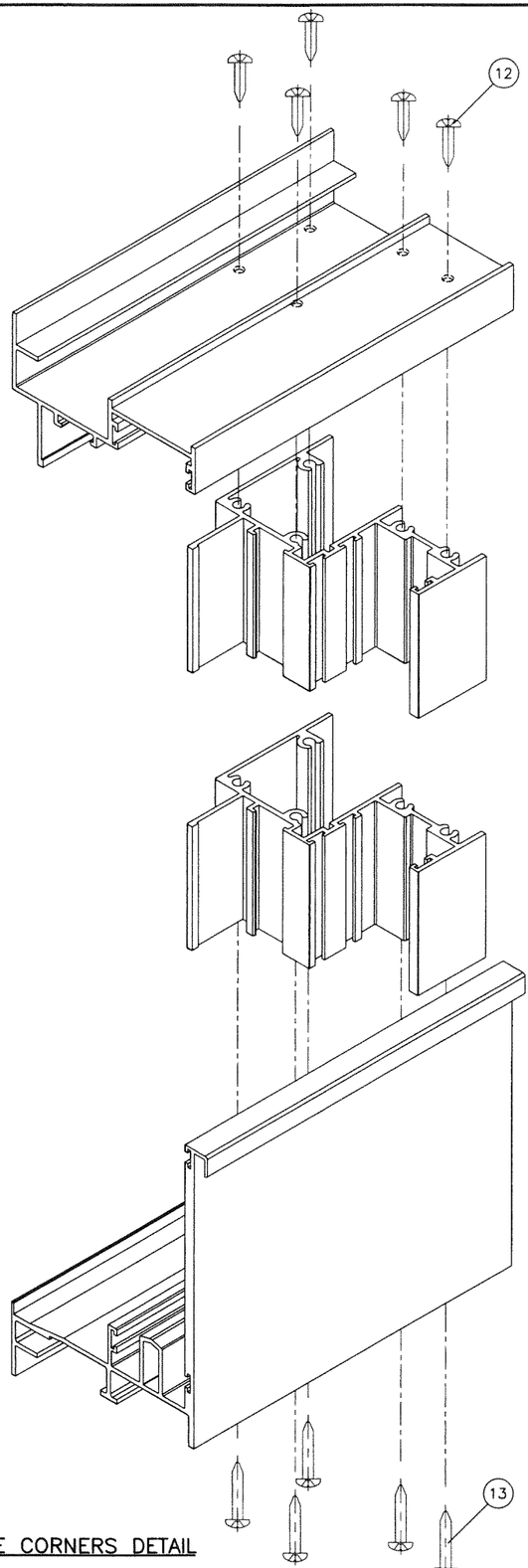
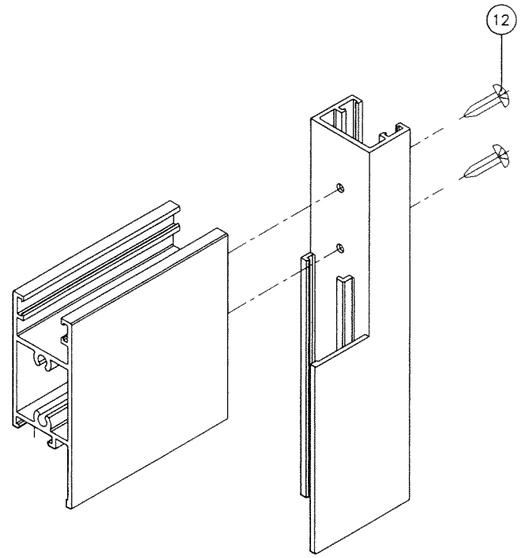
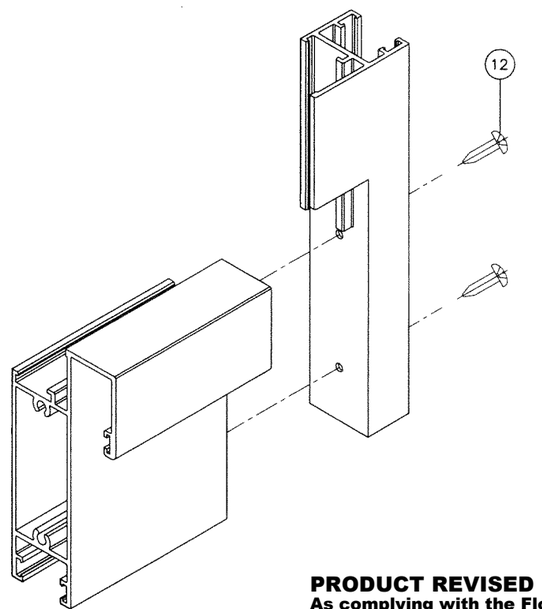


FRAME CORNERS DETAIL





VENT CORNER DETAIL

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