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/economy

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

NOTICE OF ACCEPTANCE (NOA)

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

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 "700" Aluminum Sliding Glass Door w/ Reinforcements-S.M.I.

APPROVAL DOCUMENT: Drawing No. **W13-60 REV E**, titled "Series- 700 Alum SLD. Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 11/22/13 and last revised on JAN 12, 2021, 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: Small Missile Impact Resistant

Limitations:

1. See Design Pressures Vs Reinforcing, glass types and anchor capacity charts in sheet **2**. Exterior (positive) design pressures are limited to **+70 PSF** w / **2-3/4"** sill riser and +**47.0 PSF** w/ **2"** sill riser. Lower design Pressure from charts applies to entire system.
2. See approved configurations in sheets 1. The max frame width and height not to exceed 96".
3. See fix jamb installation clip #19 (3" corner and 16" OC) in sheet 5.
4. See **low-e insulated laminated glass** test lab reported data(s) for thermal performance, listed in sheet G-1, such application to be reviewed by Building Official.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 #18-1220.10** consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

NOA No. 21-0114.09
Expiration Date: March 20, 2024
Approval Date: March 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under file # see below)
2. Drawing No. **W13-60 REV C**, titled "Series- 700 Alum SLD. Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 11/22/13 and last revised on JAN 28, 2016, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under #13-1217.23)

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) Small 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 diagrams of Alum sliding Glass doors, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-7405** dated 09/13/2013 and last revised on 02/10/2014, signed and sealed by Marlin D. Brinson, P. E.
   Note: The above referenced test report has an addendum letter dated FEB 10, 2014, issued by Fenestration Testing Lab, Inc., signed by Ms. Iliana Sanchez, test report Author.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (5th Edition), prepared by Al Farooq Corporation, dated 06/10/15 and last revised on JAN 28, 2015, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc.) for the "**Kurray Butacite PVB Interlayers**", expiring on 12/11/2016.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 06/10/15, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. Test proposal, dated 03/25/13 approved by Jaime D. Gascon, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0114.09
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER (Continue) *(Submitted under #13-1217.23)*

2. Thermal Simulation Test report # **FTL 7605** dated 11/12/2013, issued by Fenestration Testing Lab to validate the U-Factor and SHGC attributes, using NFRC procedures and computer Software listed below:
   2.1) **NFRC 100-2004** "Procedure for Determining Fenestration Product U-Factors".
   2.2) **NFRC 200-2004** "Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence".
   2.3) **NFRC 500-2004** "Procedure for Determining Fenestration Product Condensation Resistance Values".
   2.4) Computer simulation Software Therm 6.3.38 Window v6.3.74, simulation manual.

   Along with marked-up drawings of 96" Wx96"H (OX) alum Sliding glass door, with **insulated laminated** low-e glass (3/16 LowE336-3/8 AIR gap-3/16CLR-060 PVB-3/16CLR), simulation conducted by Jose Sanchez (NFRC Certified Simulator-in Responsible Charge).
3. Thermal Performance Test Report # **FTL 7606** dated 11/13/2013, issued by Fenestration Testing Lab for measured Test data and calculated Test data per NFRC procedure below:
   3.1) NFRC **102-2004** "Test Procedure for Measuring the Steady State Thermal Transmittance of Fenestration Systems".

   Along with marked-up drawings of 96" Wx96"H (OX) alum Sliding glass door, with **insulated laminated** low-e glass w/ SS-D (3/16 T LowE336-3/8 AIR gap-3/16HS-060 PVB-3/16HS), test conducted by Jose Sanchez (NFRC Certified Simulator-in Responsible Charge).

GREEN SUSTAINABLE ATTRIBUTES (GSA)

SCOPE: This document is solely for the purpose of test lab reported Sustainable Attributes of construction materials. The documentations under items G (2) & (3) have been provided to Miami-Dade County Product Control Section.

Tested Baseline sample: Max 96" W X 96" H Alum SGD (OX) w/ (Low-e **Insulated laminated Glass** w/SS-D). Max DLO 87-15/16" H x 41-3/4" W per each panel. Overall Panel size 48-7/8"H x 94-7/16" W

G.8 – U-FACTOR (THERMAL TRANSMITTANCE) BTU/HR-FT^2-^{0}F					
G.9 – SHGC-FACTOR (SOLAR HEAT GAIN COEFFICIENT) BTU/HR-FT^2					
ID#	**Test Report#**	**Product Number**	**Glazing Components:**	**G.8 U-Factor**	**G.9 SHGC**
Base line Product	**FTL-7605**	**001**	3/16 LowE336-3/8 AIR gap-3/16CLR-060 PVB-3/16CLR	0.60 Total	0.22 Total(NG)

Legend	
Abbreviations:	**Description:**
SS-D	Desiccant-Filled Stainless-Steel Spacer
360#2	CardinalLow E 336(e=0.022) @ #2 Surface
AIR	Pure Air Space
PVB	.060" Poly Vinyl Butral (PVB) interlayer
CLR	Clear Glass
T	Tempered
HS	Heat Strengthened
NG	Non-Grid
AL	Aluminum Frame (Non-Thermally Broken)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0114.09
Expiration Date: March 20, 2024
Approval Date: March 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approvals.

A. DRAWINGS

1. Drawing No. **W13-60 REV D**, titled "Series- 700 Alum SLD. Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 11/22/13 and last revised on JAN 23, 2018, signed and sealed by Javad Ahmad, 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. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017(6th edition) prepared by Al-Farooq Corporation, dated JAN 23, 2018, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. This NOA **revises NOA # 15-0612.04**, expiring 03/20/2019.

3. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **W13-60 REV D**, titled "Series- 700 Alum SLD. Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 11/22/13 and last revised on JAN 23, 2018, signed and sealed by Javad Ahmad, 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. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/19.

F. STATEMENTS (submitted under file **#18-0129.12)**

1. Statement letter of conformance to FBC 2017(6th edition) prepared by Al-Farooq Corporation, dated JAN 23, 2018, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. This NOA **revises NOA # 18-0129.12**, expiring 03/20/2024. Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0114.09
Expiration Date: March 20, 2024
Approval Date: March 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W13-60 REV E**, titled "Series- 700 Alum SLD. Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by Al-Farooq Corporation, dated 11/22/13 and last revised on JAN 12, 2021, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2020 (7th Edition), prepared by Al Farooq Corporation, dated 01/12/21, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.28** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/24.

F. STATEMENTS

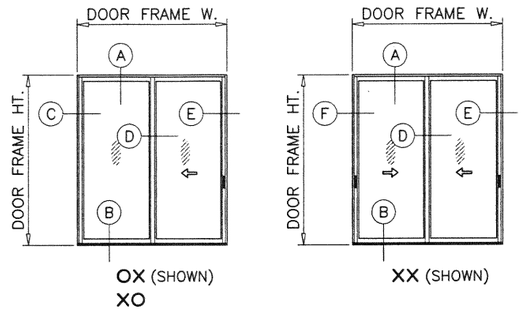
1. Statement letter of conformance to FBC 2020(7th edition) prepared by Al-Farooq Corporation, dated JAN 12, 2021, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA **revises NOA # 18-1220.10**, expiring 03/20/2024.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0114.09
Expiration Date: March 20, 2024
Approval Date: March 18, 2021



APPROVED CONFIGURATIONS

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 SEE CHART #1 ON SHEET 2 FOR GLASS CAPACITY AND REINFORCING REQUIREMENTS.

STEP 2 SELECT SILL TYPE FROM SHEET 4 AND LIMIT EXT.(+) DESIGN PRESSURE AS SHOWN ON DETAIL.

STEP 3 SEE CHART #2 ON SHEET 2 FOR ANCHOR CAPACITY.

STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 1 THRU 3 SHALL APPLY TO ENTIRE SYSTEM.

DAYLITE OPENINGS WIDTHS:
PANEL WIDTH – 7.125"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT – 6.50"

PANEL HEIGHT = DOOR FRAME HEIGHT – 1.5625"

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI–DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES–700
ALUMINUM SLIDING GLASS DOOR

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

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

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

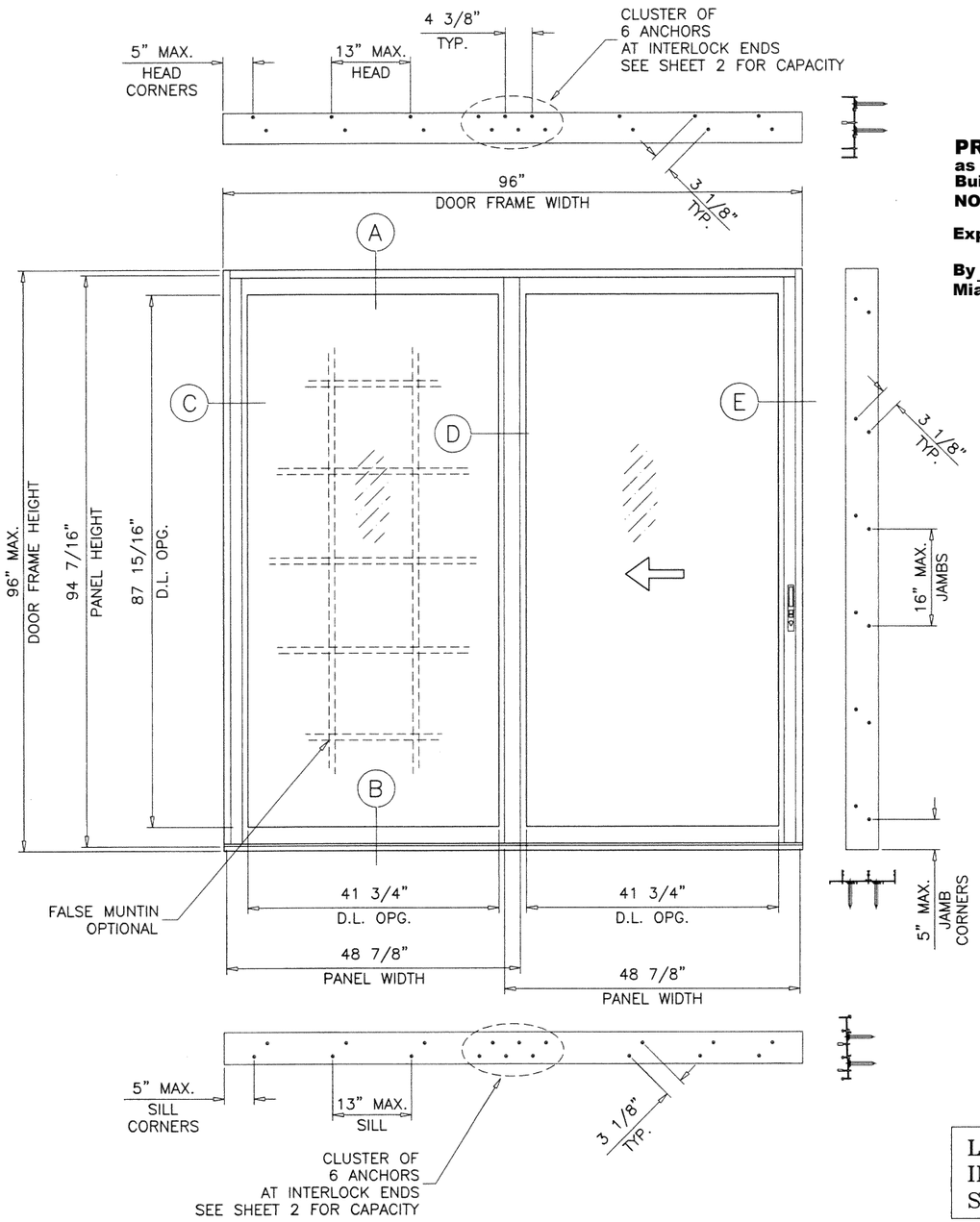
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

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

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

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



TYPICAL ELEVATION
OX

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF DOORS NOT TO EXCEED THE TESTED FRAME AREA OF 64 SQ. FT.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 21-0114.09
Expiration Date 03/20/2024
By Ishaq I. Chanda
Miami–Dade Product Control

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

JAN 12 2021

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3638)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W13–60ECO

SERIES–700 ALUM SLIDING GLASS DOOR (S.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885–5299 FAX (305) 885–5902

revisions:			
no	date	by	description
A	01.16.14		REV. PER RER COMMENTS
B	06.08.15		UPDATED TO 2014 FBC
C	01.14.16		REV. PER RER COMMENTS
D	01.11.18		UPDATED TO 2017 FBC
E	11.05.20		UPDATED TO 2020 FBC

date: 11–22–13
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. W13–60

sheet 1 of 8

CHART #1

DESIGN LOAD CAPACITY – PSF (GLASS)			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A', 'A1'	
		EXT.(+)	INT.(–)
24	82	70.0	130.0
30		70.0	117.5
36		70.0	102.5
42		70.0	91.4
48		70.0	80.0
54		62.2	71.1
24	84	70.0	130.0
30		70.0	116.9
36		70.0	101.8
42		70.0	91.4
48		70.0	80.0
54		62.2	71.1
24	90	70.0	130.0
30		70.0	115.2
36		70.0	100.0
42		70.0	89.4
48		70.0	80.0
24	96	70.0	130.0
30		70.0	113.8
36		70.0	98.5
42		70.0	87.8
48		70.0	80.0

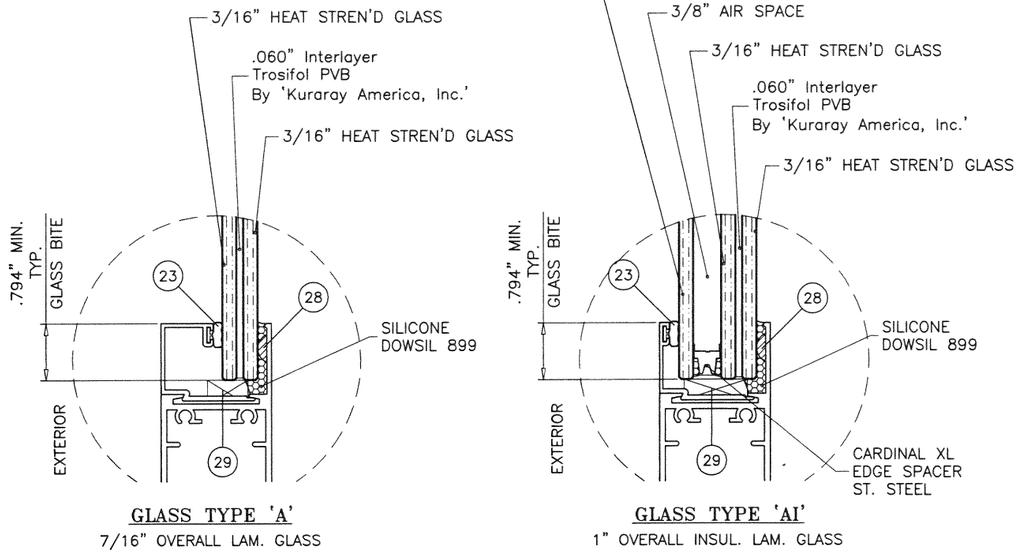
REINFORCING REQD. AT EACH INTERLOCK

CHART #2

LOAD CAPACITY – PSF (ANCHORS)			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	
		EXT.(+)	INT.(–)
24	82	70.0	130.0
30		70.0	117.5
36		70.0	102.5
42		70.0	91.4
48		70.0	80.0
54		62.2	71.1
24	84	70.0	130.0
30		70.0	116.9
36		70.0	101.8
42		70.0	91.4
48		70.0	80.0
54		62.2	71.1
24	90	70.0	130.0
30		70.0	115.2
36		70.0	100.0
42		70.0	89.4
48		70.0	80.0
24	96	70.0	130.0
30		70.0	113.8
36		70.0	98.5
42		70.0	87.8
48		70.0	80.0

NOTE:
SEE CHART #1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
SEE CHART #2 FOR ANCHORS CAPACITY.
LOWER VALUES FROM GLASS OR ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE
FOR DOORS WITH 2–3/4" SILL HEIGHTS.
FOR 2" SILL HEIGHT LIMIT EXT.(+) LOADS TO 47.0 PSF
DOORS WITH 1–1/8" SILL HEIGHTS ARE NOT APPROVED FOR
WATER INFILTRATION RESISTANCE
SEE SHEET 4 FOR DETAILS



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

GLASS TYPE 'AI'
1" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 21-0114.09
Expiration Date 03/20/2024
By Ishaq I. Chanda
Miami–Dade Product Control

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

JAN 12 2021

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
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\W13–60ECO

SERIES–700 ALUM SLIDING GLASS DOOR (S.M.I.)

ECO WINDOW SYSTEMS, LLC.
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revisions:

no	date	by	description
A	01.16.14		REV. PER RER COMMENTS
B	06.08.15		UPDATED TO 2014 FBC
C	01.14.16		REV. PER RER COMMENTS
D	01.11.18		UPDATED TO 2017 FBC
E	11.05.20		UPDATED TO 2020 FBC

date: 11–22–13
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. W13–60

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0114.09
Expiration Date 03/20/2024
By Ishaq I. Chanda
Miami-Dade Product Control

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD —

TYPE 'A'– 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE
1–1/4" MIN. EMBED INTO CONCRETE

TYPE 'B'– 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED

TYPE 'C'– 1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(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)

— AT SILL —

TYPE 'B'– 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED

— AT JAMBS —

TYPE 'A'– 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

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1–1/4" MIN. EMBED INTO CONC. OR BLOCKS

TYPE 'B'– 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1–1/4" MIN. EMBED INTO CONC. OR BLOCKS

TYPE 'C'– 1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(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)

ANCHOR EDGE DISTANCES
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, SILL OR JAMBS f'c = 3000 PSI MIN.
C–90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

JAN 12 2021

JALAL FAROOQ LICENSE No. 81222 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\W13–60ECO

SERIES–700 ALUM SLIDING GLASS DOOR (S.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885–5902 FAX (305) 885–5299

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dr. by: TARIQ
chk. by:

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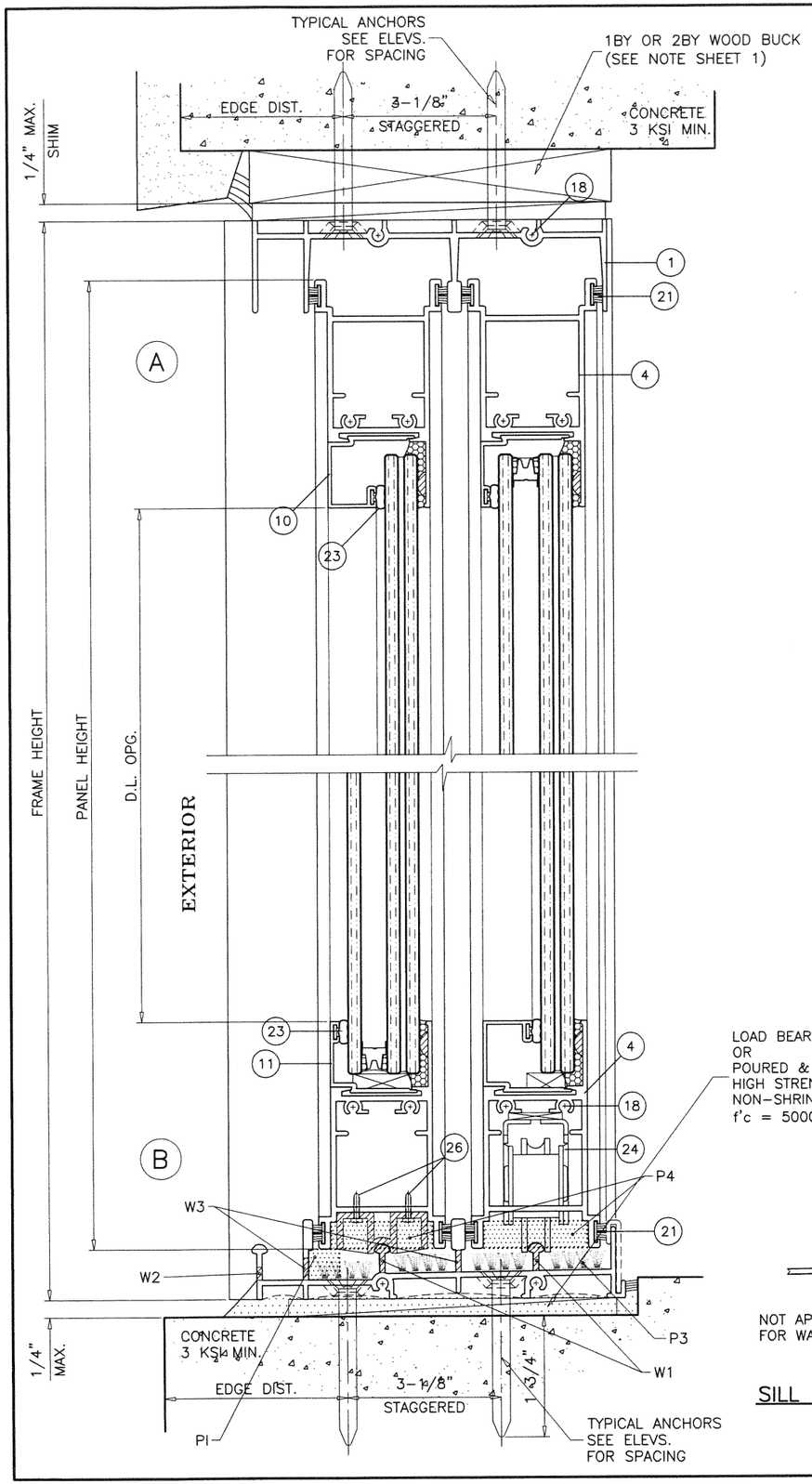

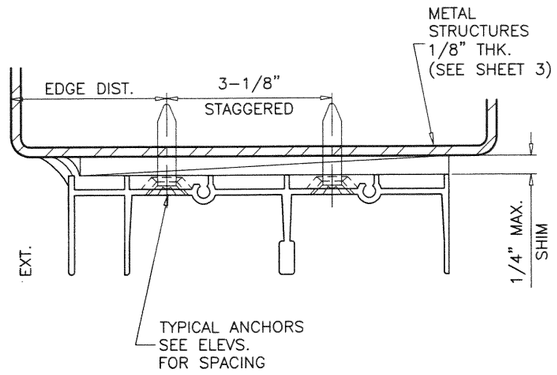

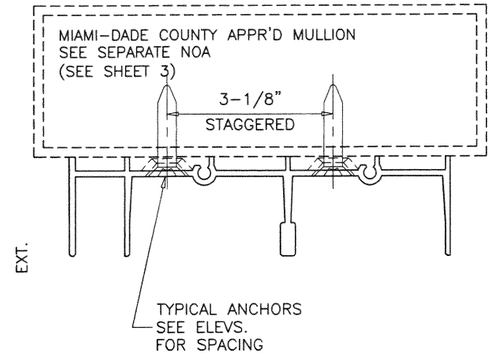

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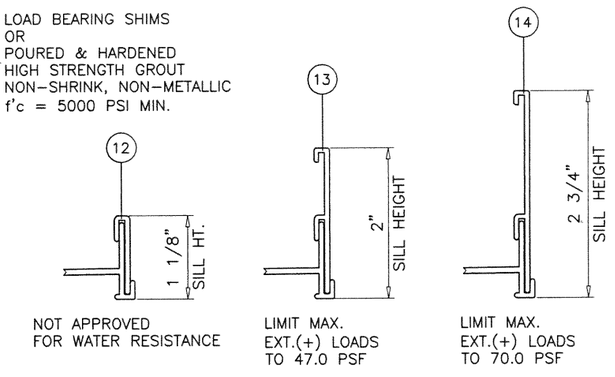
LOAD BEARING SHIMS
OR
POURED & HARDENED
HIGH STRENGTH GROUT
NON-SHRINK, NON-METALLIC
f'c = 5000 PSI MIN.



SILL HEIGHT VS WATER RESISTANCE EXT.(+) LOAD

SEE CHART 1 FOR DOOR CAPACITY

WEEPHOLES:

W1 = 1-1/2" LONG NOTCH AT EACH END.

W2 = 3/16" X 7/8" LONG WEEP NOTCH AT 5" FROM ENDS AND 21-1/2" O.C.

W3 = 3/16" X 7/8" LONG WEEP NOTCH AT 3" FROM ENDS AND 22-1/2" O.C.

PILE PADS:

P1 = OPEN CELL FOAM AT EACH WEEP HOLE LOCATION 1-1/16" LONG X 7/16" WIDE X 7/16" HIGH

P2 = SELF ADHESIVE PILE PAD 1" X 3/8" X 1/4" HIGH

P3 = SELF ADHESIVE PILE PAD WITH MULTI INTEGRAL FIN 2-1/2" X 1" X 3/8" HIGH

P4 = OPEN CELL FOAM AT INTERLOCK 2" LONG X 1-7/16" WIDE X 7/16" HIGH

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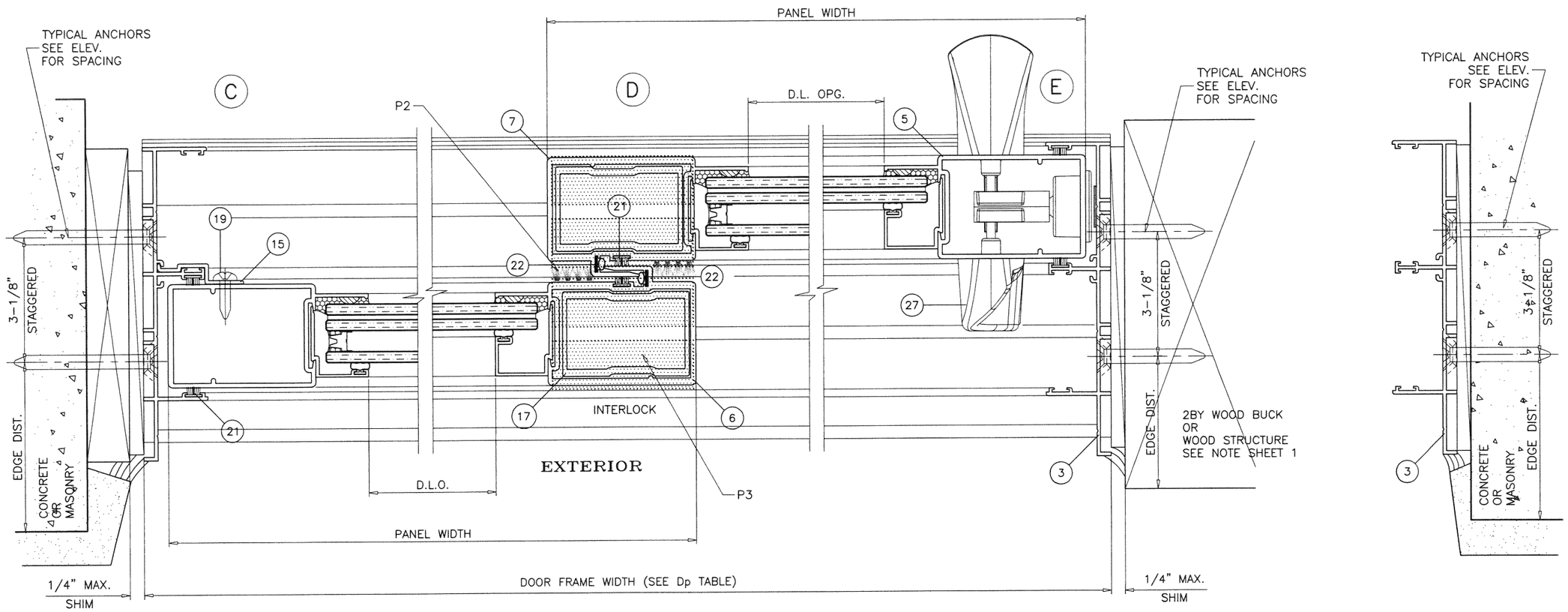

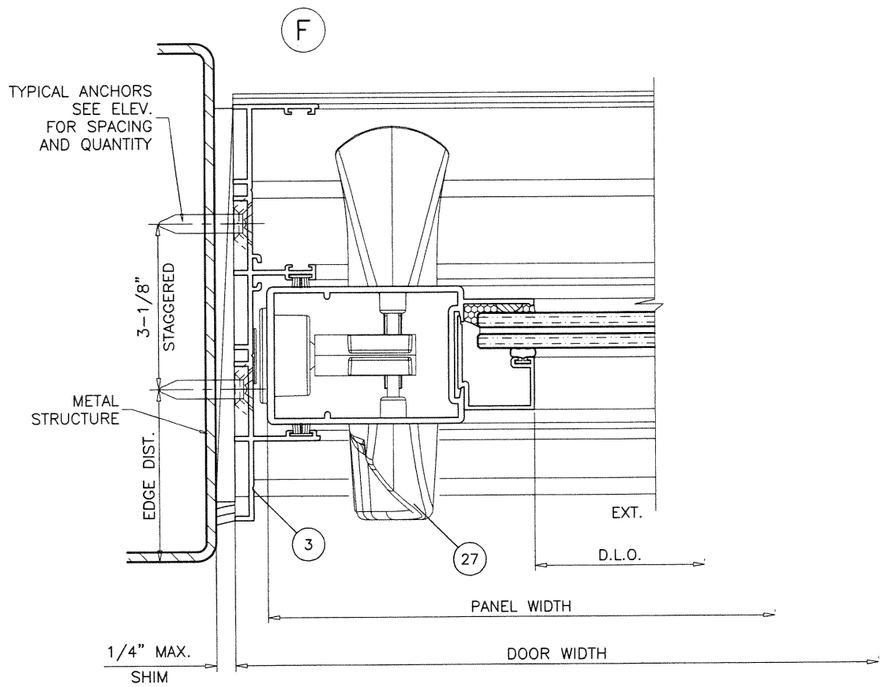

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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E701	1	FRAME HEAD	6005–T5	–
2	E702	1	FRAME SILL	6005–T5	–
3	E703	2	FRAME JAMB	6063–T6	–
4	E704	2/ PANEL	PANEL TOP AND BOTTOM RAIL	6063–T6	–
5	E705	AS RQD.	PANEL LOCK STILE	6063–T6	–
6	E706	AS REQD.	PANEL OUTER INTERLOCK	6063–T6	–
7	E707	AS REQD.	PANEL INNER INTERLOCK	6063–T6	–
10	E710	AS REQD.	GLAZING BEAD 7/16" LAMINATED GLASS	6063–T6	–
11	E711	AS REQD.	GLAZING BEAD 1" INSUL. LAM. GLASS	6063–T6	–
12	E712	AS REQD.	SILL TRIM	6063–T6	OPTIONAL
13	E713	AS REQD.	2" SILL RISER	6063–T6	–
14	E714	AS REQD.	2–3/4" SILL RISER	6063–T6	–
15	E715	AS REQD.	FIXED PANEL CLIP (CONTINUOUS)	6063–T6	–
17	E717	AS REQD.	INTERLOCK STIFFENER (FULL PANEL LENGTH)	6063–T6	–
18	#10 X 3/4" HWH SMS	AS REQD.	FRAME ASSY. SCREWS	ST. STEEL	–
18A	#10 X 1" FH SMS	AS REQD.	PANEL ASSY. SCREWS	ST. STEEL	–
19	#8 X 1/2" PH SMS	2/CLIP	FIXED PANEL CLIP SCREWS	ST. STEEL	AT 3" FROM ENDS & 16" O.C.
20	#10 X 1–1/4" PH SMS	1/ ROLLER	ROLLER INST. SCREWS	–	NOT SHOWN
21	WEATHERSTRIP	AS REQD.	FRAME AND PANEL WEATHERSTRIP	–	FIN SEAL .190 HIGH BY ULTRAFAB
22	E235	AS REQD.	INTERLOCK BUMPER BULB	SANTOPRENE	ULTRAFAB
23	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB, DUROMETER 65±5
24	PR03–6005	2/ MOV. PANEL	TANDEM NYLON WHEELS IN ST. STEEL HOUSING	–	INTERLOCK (1/2" MTG. SPACER REQD.)
25	E718	2/PANEL	FIXED PANEL SKATE	DELRIN	–
26	#8 X 1/2" PH SMS	2/CLIP	FIXED PANEL SKATE INST. SCREWS	ST. STEEL	
27	–	AS REQD.	3 PLY DUAL POINT LOCK ASSEMBLY	–	BY INTERLOCK
28		AS REQD.	BUMPON SPACER	SILICONE	BY FRANK LOWE
29		AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

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SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

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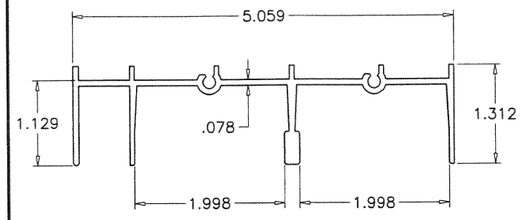
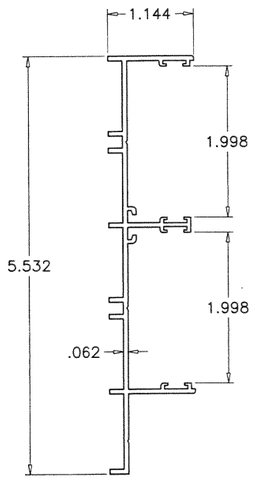
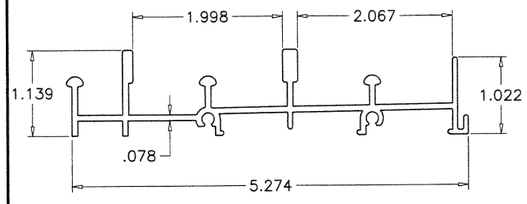


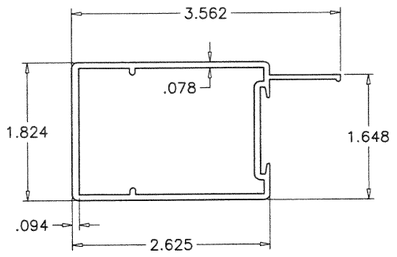
(1) FRAME HEAD



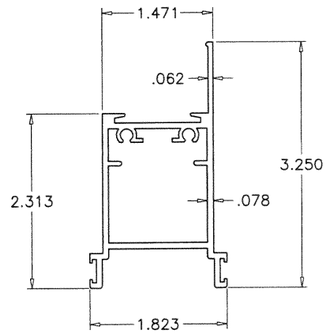
(3) FRAME JAMB



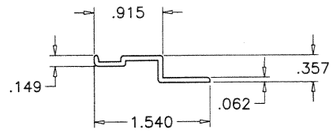
(2) FRAME SILL



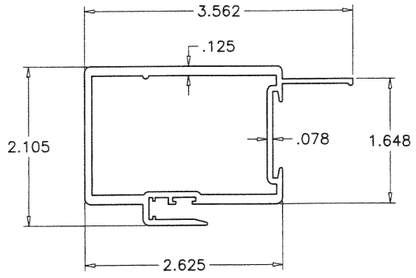
(5) PANEL LOCK STILE



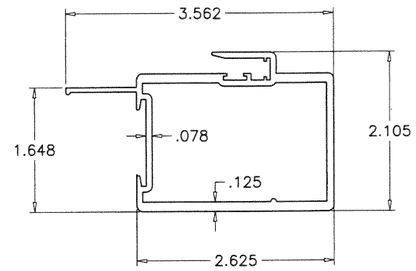
(4) PANEL TOP & BOTTOM RAIL



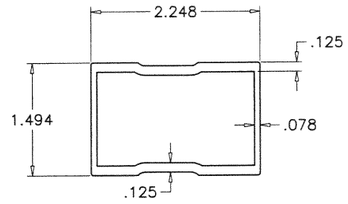
(15) FIX. PANEL CLIP



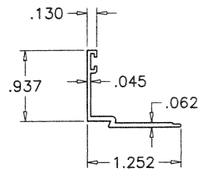
(7) PANEL INNER INTERLOCK



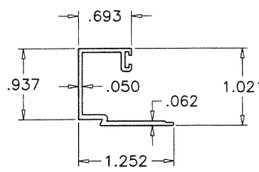
(6) PANEL OUTER INTERLOCK



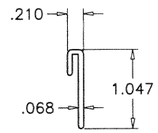
(17) INTERLOCK STIFFENER



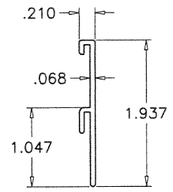
(10) GLAZING BEAD
1" INSUL. LAM. GLASS



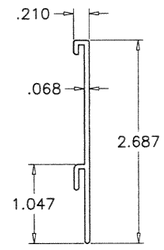
(11) GLAZING BEAD
7/16" LAM. GLASS



(12) SILL TRIM



(13) 2" SILL RISER



(14) 2-3/4" SILL RISER

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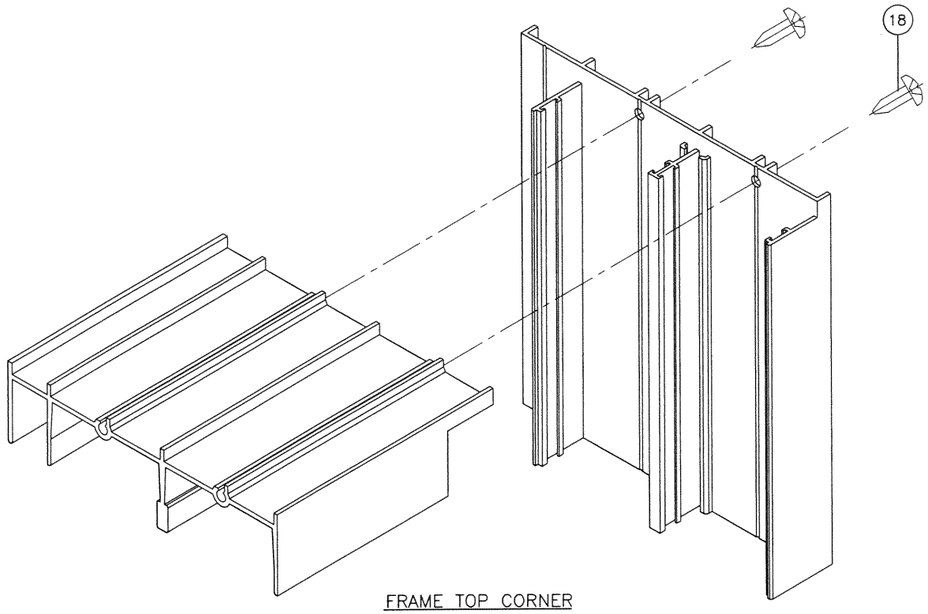
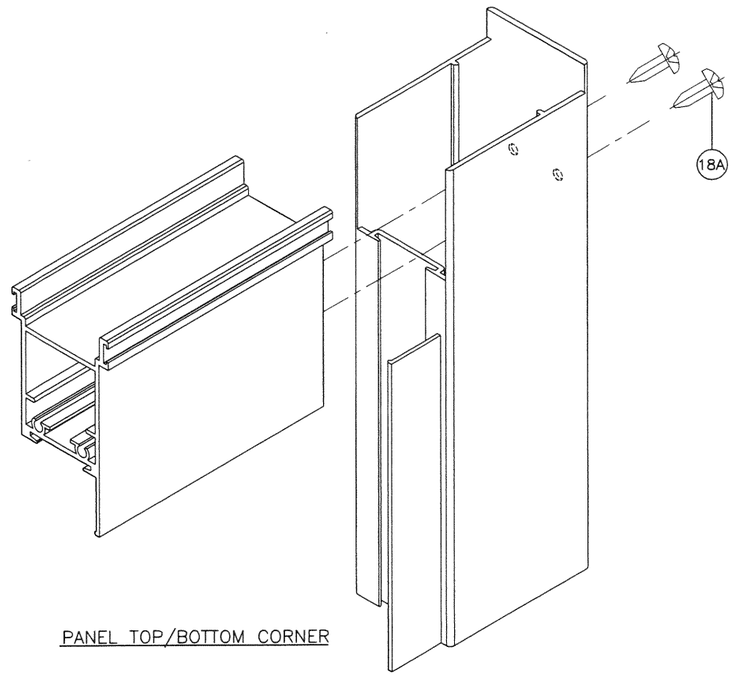
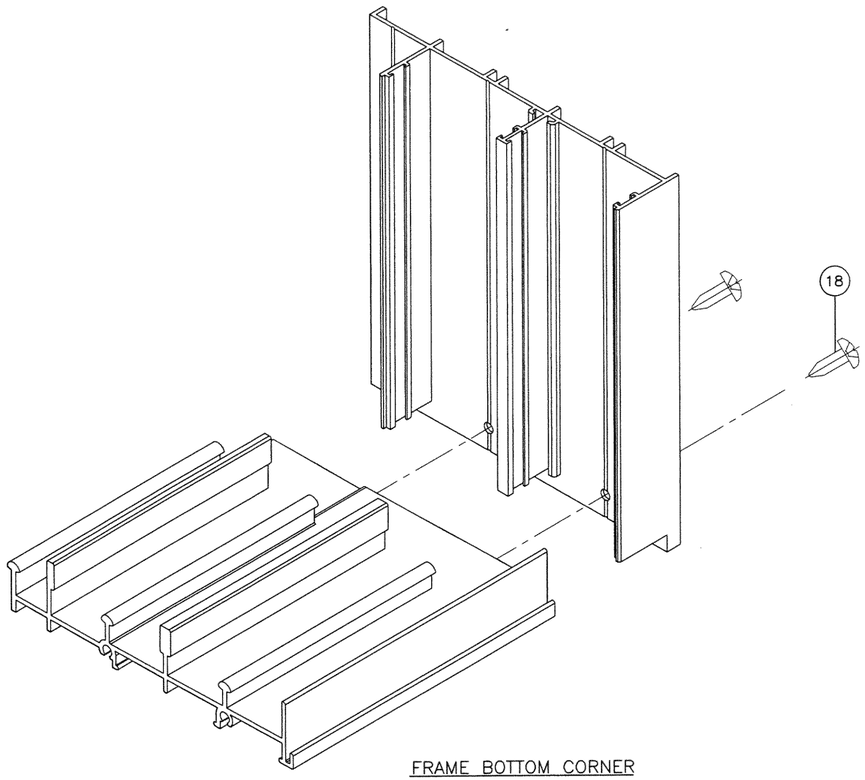


FRAME TOP CORNER



PANEL TOP/BOTTOM CORNER



FRAME BOTTOM CORNER

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