



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

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

Tecnoglass, LLC
3550 NW 49 Street
Miami, FL 33142

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 "PH-3050" Aluminum Window Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W07-62**, titled "PH3050 Alum. Window Wall System (S.M.I.)", sheets 1 through 6 of 6, dated 08/09/07, with revision E dated 11/23/20, 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: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia S.A.**, 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.

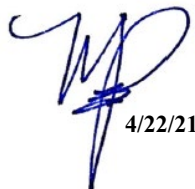
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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. 18-0205.08** and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




4/22/21

NOA No. 21-0225.02
Expiration Date: February 07, 2023
Approval Date: April 29, 2021
Page 1

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. 07-1212.05 and No. 09-0812.11)
2. Drawing No. **W07-62**, titled "PH3050 Alum. Window Wall System (S.M.I.)", sheets 1 through 6 of 6, dated 08/09/07, with revision **D** dated 06/12/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.08)

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) 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
7) Safety Performance Specifications and Methods of Test per FBC, 35.5 ANSI Z97.1-04
along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., for the following Test Report No. **FTL-5776**, dated 02/17/09, signed and sealed by Michael R. Wenzel P.E.
(Submitted under NOA No. 09-0812.11)
2. 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
along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., for the following Test Report No. **FTL-5316**, dated 07/10/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-1212.05)
3. 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
along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., for the following Test Report No. **FTL-5043**, dated 02/02/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-1212.05)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.02
Expiration Date: February 07, 2023
Approval Date: April 29, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/29/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.08)
2. Glazing complies with **ASTM E 1300-09**

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 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 5th Edition (2014)**, with **FBC 6th Edition (2017)**, and of no financial interest, dated December 15, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.08)
2. Distribution agreement dated 02/07/17 between Tecnoglass, Inc. and Energia Solar SA, Colombia, signed by Evelyn Daes (Gen MGR) and Carlos Garcia (Sales MGR), respectively on behalf of their companies.
(Submitted under NOA No. 18-0205.08)
3. Bill of Sale –between Tecnoglass, LLC ("Purchaser") and RC Aluminum Industries, Inc. ("Seller") dated and notarized on the 19th day of June, 2013, signed by Raul Casares, President (RC Aluminum Industries, Inc., listing all purchased assets under Exhibit A of Asset Purchase Agreement dated November 19, 2013
(Submitted under NOA No. 18-0205.08)
4. Statement letter dated July 15, 2014, issued by RC Aluminum Industries, Inc., stating RC Aluminum Industries, Inc. has legally sold to Tecnoglass, LLC, all NOA's per schedule 1 and gave-up all rights to NOA(s) and request to rescind all NOA's under RC Aluminum Industries, Inc. signed by Raul Casares, President, RC Aluminum
(Submitted under NOA No. 18-0205.08)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.02
Expiration Date: February 07, 2023
Approval Date: April 29, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


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

F. STATEMENTS (CONTINUED)

5. Proposal issued by Product Control, dated 06/09/08, signed by Jaime Gascon, P.E.
(Submitted under NOA No. 09-0812.11)
6. Proposal No. **06-0204**, dated 06/27/06, signed by Manuel Perez, P.E.
(Submitted under NOA No. 07-1212.05)
7. Laboratory compliance letters prepared by Fenestration Testing Laboratory, Inc., test reports No. **FTL-5776**, **FTL-5043** and **FTL-5316**, dated 02/17/09, 02/02/07 and 07/10/07 respectively, signed and sealed by Michael R. Wenzel, P.E. and by Carlos S. Rionda, P.E.
(Submitted under NOA's No. 09-0812.11 and 07-1212.05)

G. OTHERS

1. Notice of Acceptance No. **13-0220.02**, issued to R. C. Aluminum Industries, Inc. for their Series "PH 3050" Aluminum Window Wall System – S.M.I., approved on 05/09/13 and expiring on 02/07/18.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.02
Expiration Date: February 07, 2023
Approval Date: April 29, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W07-62**, titled “PH3050 Alum. Window Wall System (S.M.I.)”, sheets 1 through 6 of 6, dated 08/09/07, with revision **E** dated 11/23/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/29/18 and updated on 02/02/21 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E 1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
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.

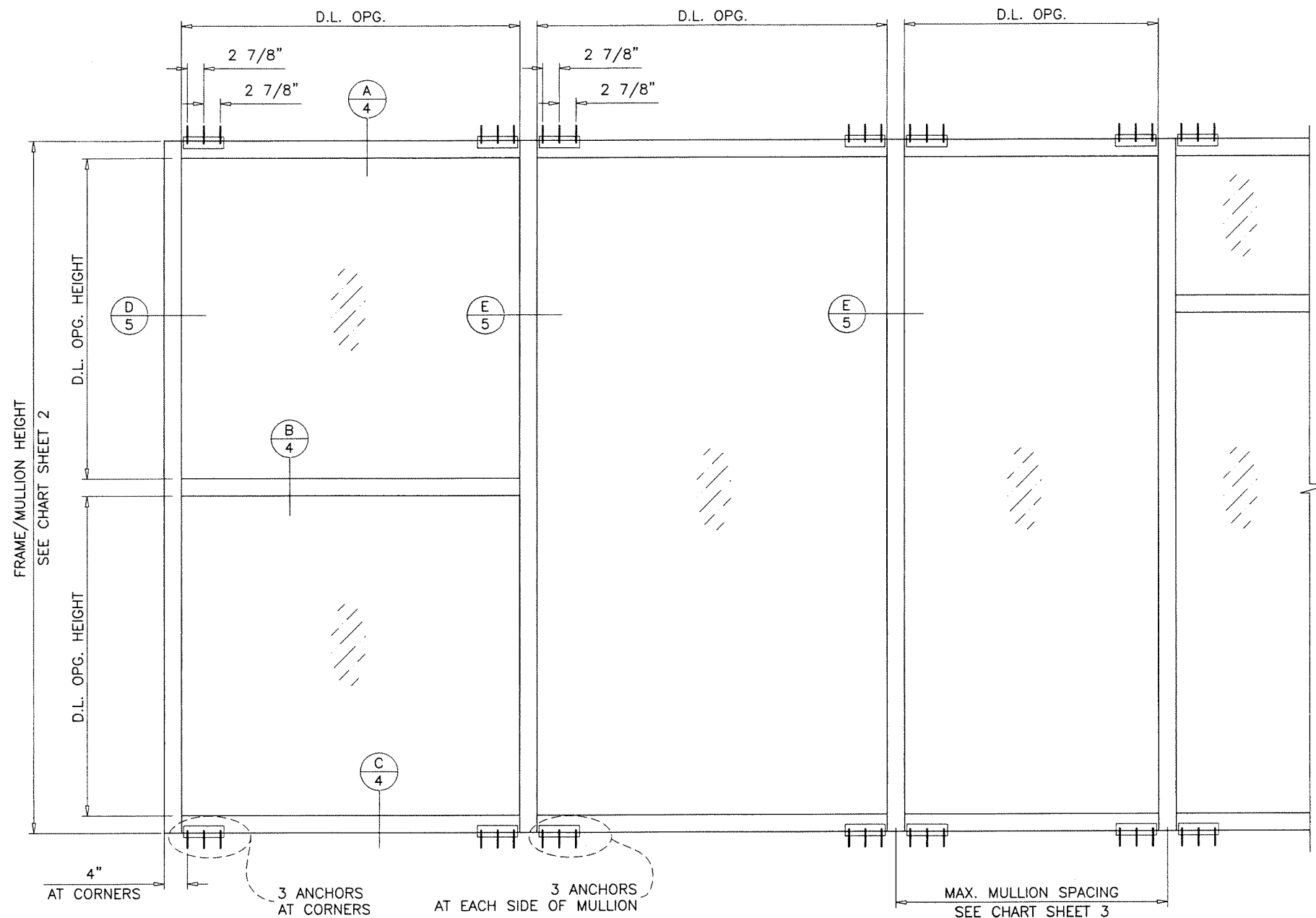
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated February 02, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0205.08**, issued to Tecnoglass, LLC for their Series “PH-3050” Aluminum Window Wall System – S.M.I., approved on 08/02/18 and expiring on 02/07/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.02
Expiration Date: February 07, 2023
Approval Date: April 29, 2021



THIS SYSTEM IS 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.

PH3050 ALUMINUM WINDOW WALL SYSTEM

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).

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.

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.

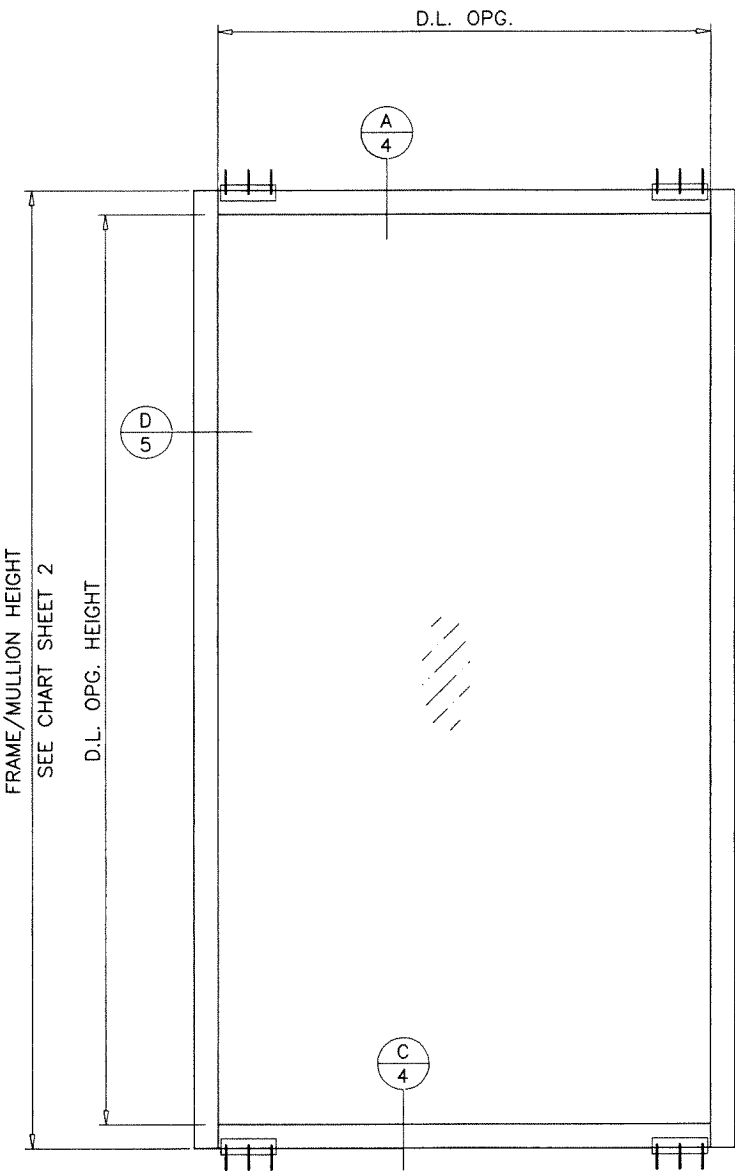
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

TYPICAL ELEVATIONS

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 2 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3** USING CHART ON SHEETS 3 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 SHALL APPLY TO ENTIRE SYSTEM.

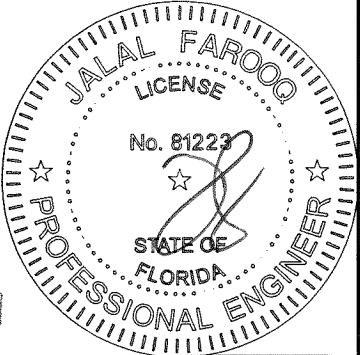


PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

**INSULATING LAMINATED GLASS
 SMALL MISSILE IMPACT**

PRODUCT REVISED
 as complying with the Florida
 Building Code
NOA-No. 21-0225.02
Expiration Date: 02/07/23
 By: *Manuel Perez*
Miami-Dade Product Control

FEB 22 2021



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

af c
 STORE W07-62RC

PH3050 ALUM. WINDOW WALL SYSTEM (S.M.I.)

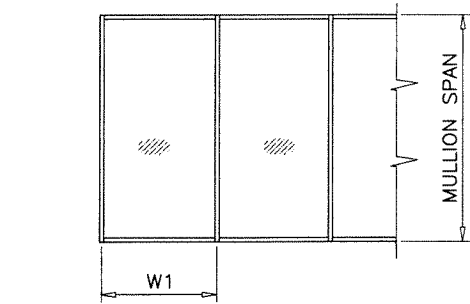
TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	07.07.09		UPDATED FOR 2007 FBC
B	03.20.12		UPDATED TO 2010 FBC
C	01.08.16		UPDATED TO 2017 FBC
D	06.12.18		REV. PER RER COMMENTS
E	11.23.20		UPDATED TO 2020 FBC

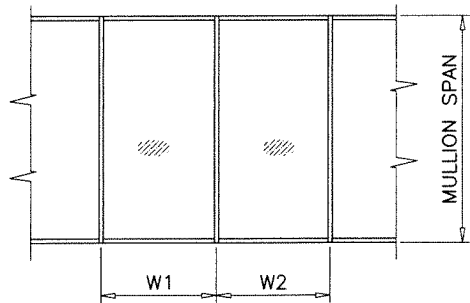
date: 08-09-07
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
W07-62
 sheet 1 of 6

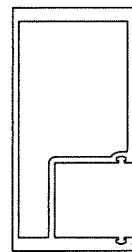
MULLION/JAMB DESIGN LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	72"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	78"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	84"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	90"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
36"	96"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
36"	102"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
36"	108"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
36"	114"	120.0	120.0	93.4	93.4
42"		120.0	120.0	81.1	81.1
48"		120.0	120.0	71.9	71.9
36"	120"	120.0	120.0	77.9	77.9
42"		120.0	120.0	67.5	67.5
48"		120.0	120.0	59.8	59.8



WIDTH (W) = W1
AT FRAME JAMB

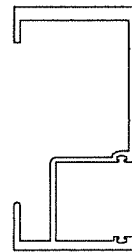


WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION



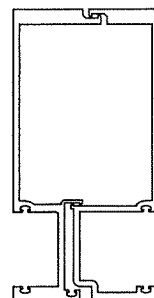
JAMB 'J1'

Ix IN ⁴	Sx IN ³
10.0633	3.9563



JAMB 'J2'

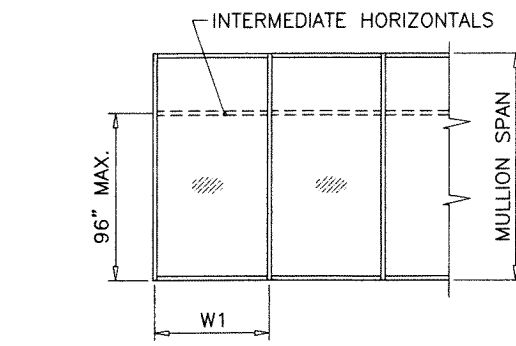
Ix IN ⁴	Sx IN ³
8.563	3.225



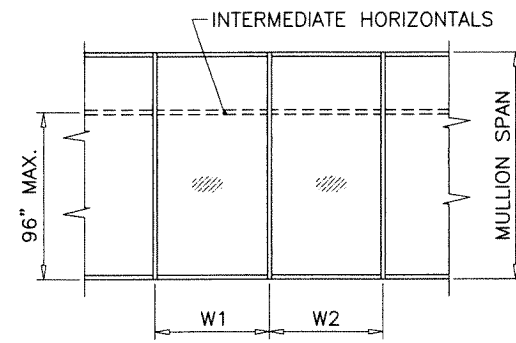
MULLION 'M1'

Ix IN ⁴	Sx IN ³
16.3576	5.0561

MULLION/JAMB DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	72"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	78"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	84"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
66"		120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0
36"	90"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
36"	96"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0
36"	102"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
36"	108"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0
36"	114"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
36"	120"	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	111.6	111.6

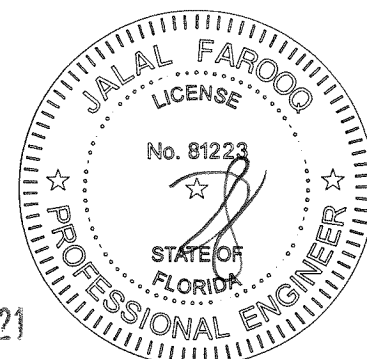


WIDTH (W) = W1
AT FRAME JAMB



WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.02**
Expiration Date: **02/07/23**
By: *Manuel Perez*
Miami-Dade Product Control



FEB 22 2021

af c
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
STORE W07-62RC

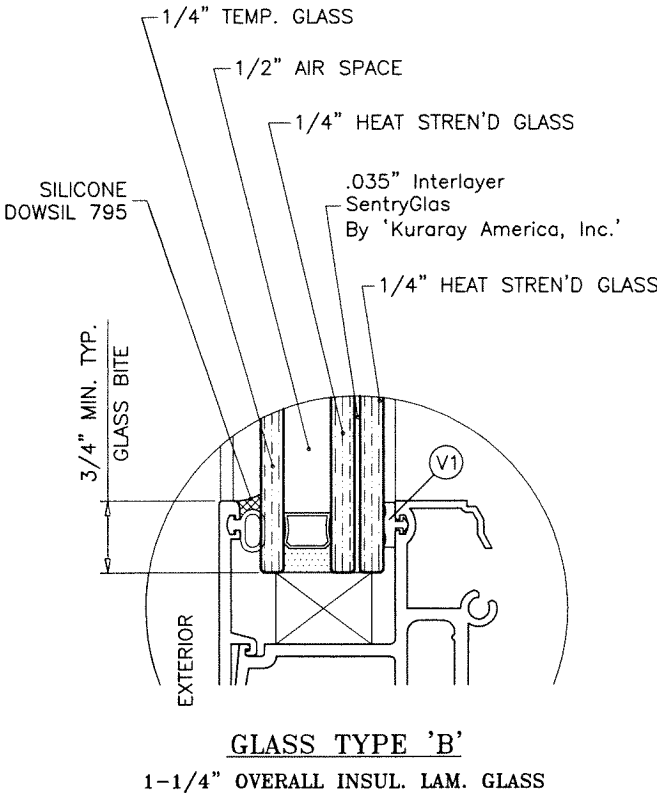
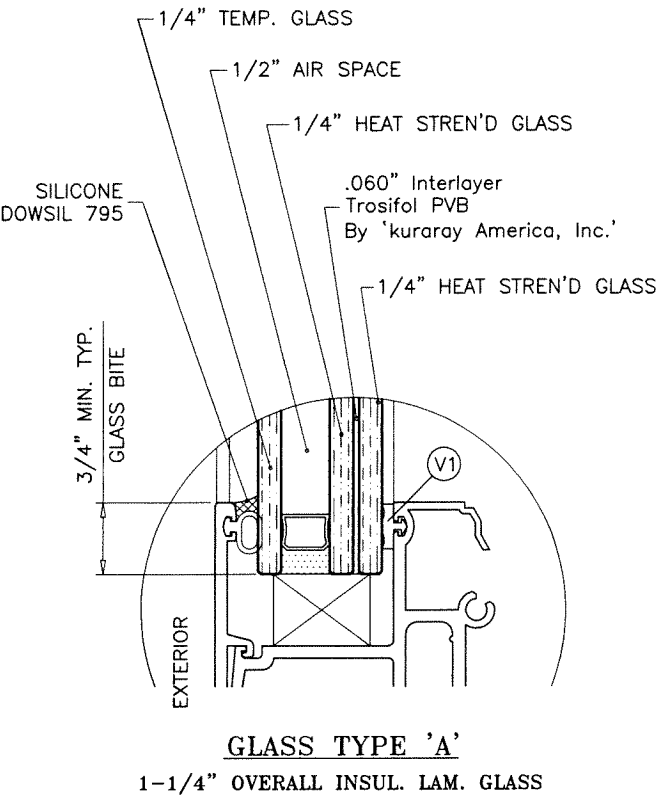
PH3050 ALUM. WINDOW WALL SYSTEM (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
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scale: -
dr. by: TARIQ
chk. by:

drawing no.
W07-62
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ANCHOR DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS 'B'
		2" MIN. EDGE DIST.	2-1/2" MIN. EDGE DIST.	3/4" MIN. EDGE DIST.
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	72"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		117.2	120.0	120.0
66"		106.6	120.0	120.0
72"		97.7	120.0	120.0
36"	78"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		108.2	120.0	120.0
66"		98.4	120.0	120.0
72"		90.2	112.9	120.0
36"	84"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		111.6	120.0	120.0
60"		100.5	120.0	120.0
66"		91.3	114.4	120.0
36"	90"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		117.2	120.0	120.0
54"		104.2	120.0	120.0
60"		93.7	117.4	120.0
36"	96"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		109.9	120.0	120.0
54"		97.7	120.0	120.0
60"		87.9	110.1	118.5
36"	102"	120.0	120.0	120.0
42"		118.2	120.0	120.0
48"		103.4	120.0	120.0
54"		91.9	115.1	120.0
36"	108"	120.0	120.0	120.0
42"		111.6	120.0	120.0
48"		97.7	120.0	120.0
36"	114"	120.0	120.0	120.0
42"		105.7	120.0	120.0
48"		92.5	115.9	120.0
36"	120"	117.2	120.0	120.0
42"		100.5	120.0	120.0
48"		87.9	110.1	118.5

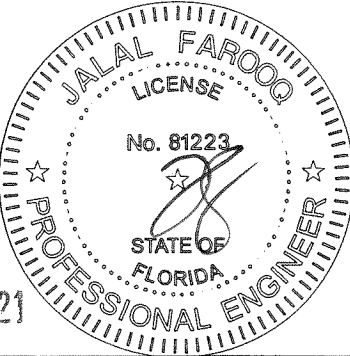


GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

PRODUCT REVISED
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By: *Manuel Perez*
Miami-Dade Product Control



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

PH3050 ALUM. WINDOW WALL SYSTEM (S.M.I.)
TECNOGLASS, LLC
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MIAMI, FL. 33142
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drawing no. W07-62		sheet 3 of 6	

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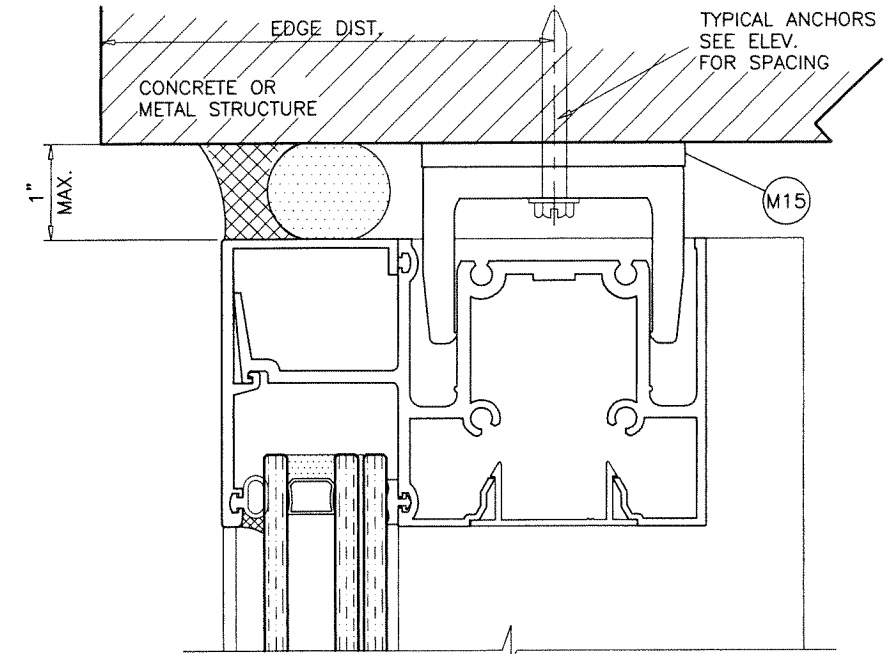
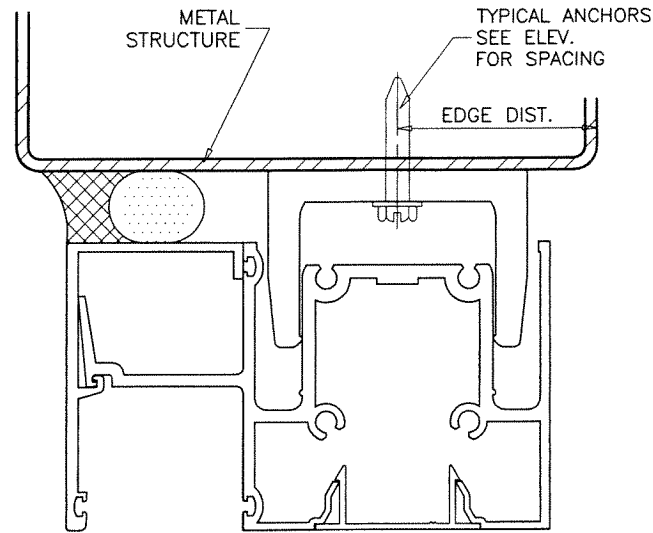
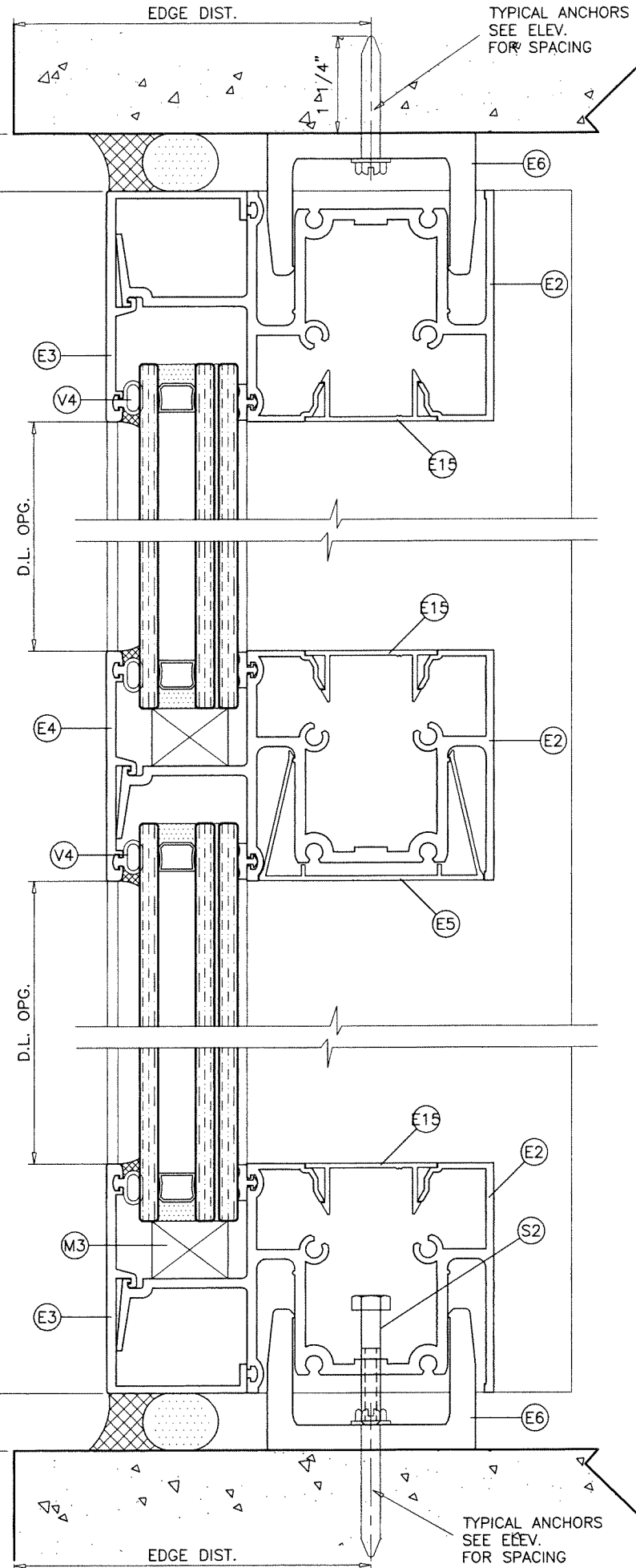
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3/4" MAX.

FRAME HEIGHT

EXTERIOR

3/4" MAX.



ALT. INSTALLATION AT HEAD/SILL
ANCHOR CHANNEL WITH SHIM PLATE

METAL STRUCTURES NOT BY 'TECNOGLASS'
MUST SUPPORT 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)
DIRECTLY INTO CONCRETE (3000 PSI MIN.)
1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B' - **1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI'** (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

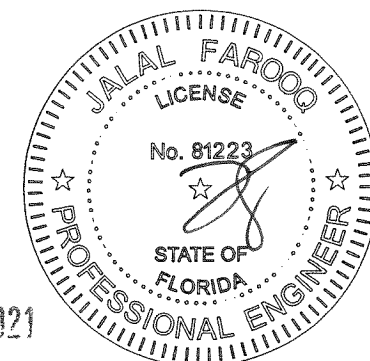
ANCHOR EDGE DISTANCES

INTO CONCRETE = 2" OR 2-1/2" MIN. (SEE CHART ON SHEET 3)
INTO METAL STRUCTURE = 3/4" MIN.

SEALANTS:

ALL FRAME CORNERS AND MULLION SEAMS SEALED
WITH SILICONE.

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STORE W07-62RC

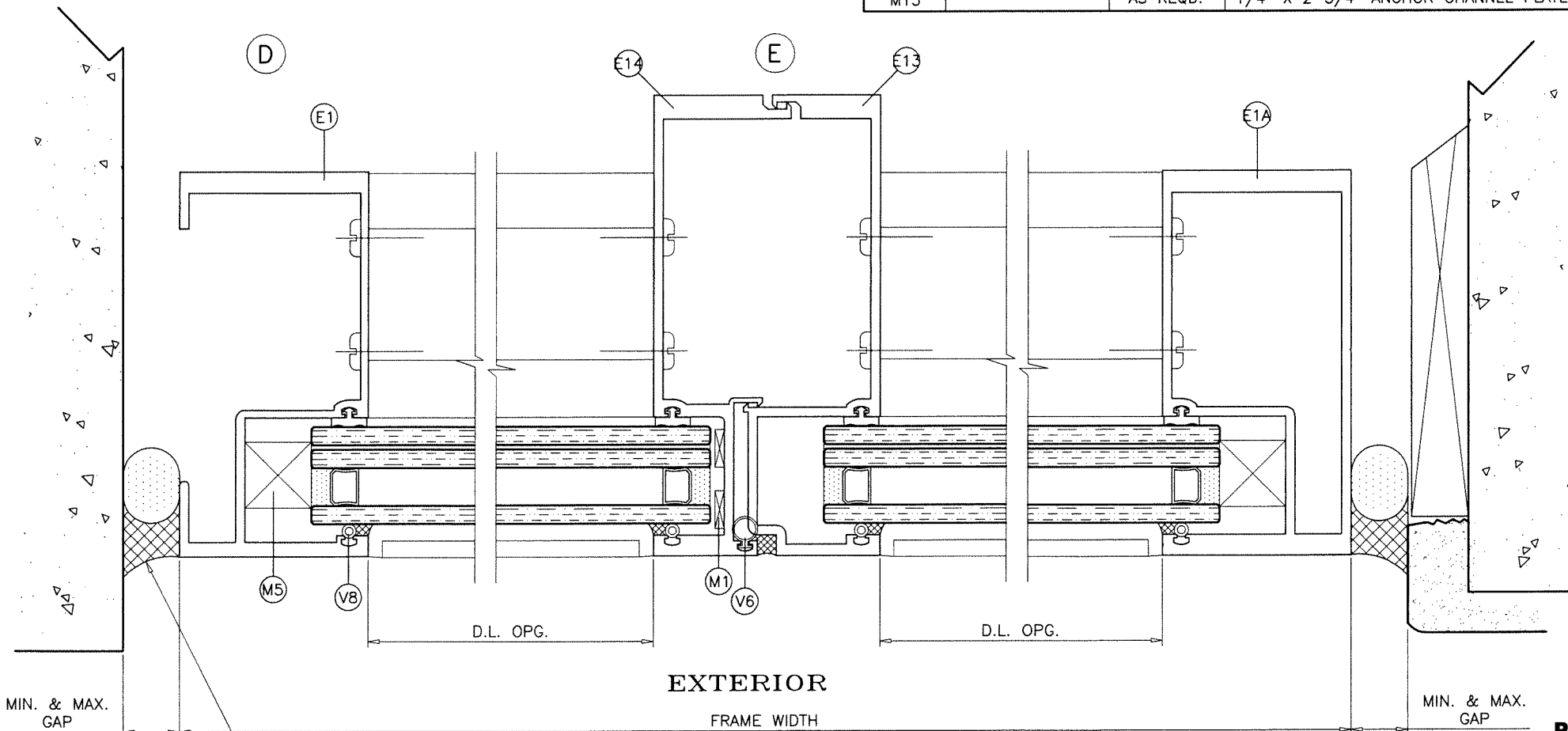
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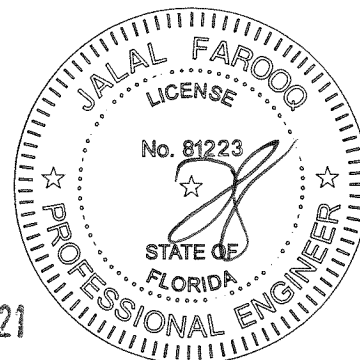
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3050-003	AS REQD.	OPEN BACK FRAME JAMB	6063-T6	-
E1A	PH3050-017	AS REQD.	CLOSED FRAME JAMB	6063-T6	-
E2	PH3050-004	AS REQD.	HEAD, SILL & INTERMEDIATE HORIZONTAL	6063-T6	-
E3	PH3050-005	AS REQD.	GLAZING RETAINER HEAD & SILL	6063-T6	-
E4	PH3050-006	AS REQD.	GLAZING RETAINER INTERMEDIATE	6063-T6	-
E5	PH3050-007	AS REQD.	INTERIOR HORIZONTAL COVER	6063-T6	-
E6	PH3050-008	AS REQD.	ANCHOR CHANNEL HEAD & SILL	6005-T5	7-3/4" LONG
E13	PH3050-015	AS REQD.	MALE MULLION	6005-T5	-
E14	PH3050-016	AS REQD.	FEMALE MULLION	6005-T5	-
E15	FX345-007	-	INTERIOR COVER	6063-T6	-
-	-	-	-	-	-
V1	V-003	AS REQD.	MARINE GLAZING GASKET	-	-
V4	V-032	AS REQD.	GLAZING GASKET	VINYL	AT HEAD/SILL/HORIZONTAL
V6	V-047	AS REQD.	MULLION GASKET	VINYL	-
V8	-	AS REQD.	Ø 0.187 SPLINE	-	AT JAMB/MULLION
-	-	-	-	-	-
S1	#14 X 1-1/4"	4/ CORNER	ASSEMBLY SCREWS	ST/ST	PH. PHL. SMS POINT "B"
S2	1/4-20 X 1-1/2"	AS REQD.	LEVELING SCREWS	-	HEX HEAD FULL THREAD
-	-	-	-	-	-
M1	-	2/ LITE	1/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	AT 6" FROM EACH END
M3	-	2/ LITE	3/4" X 3/4" X 4" LG SETTING BLOCK	NEOPRENE	AT 6" FROM EACH END
M5	-	2/ LITE	7/8" X 7/8" X 4" LG SETTING BLOCK	NEOPRENE	AT 6" FROM EACH END
M15	-	AS REQD.	1/4" X 2-3/4" ANCHOR CHANNEL PLATE	6063-T6	7-3/4" LONG



SILICONE
DOWSIL 790
DEPTH = 3/8" MIN.

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
72"	1/4"	3/4"
84"	3/8"	3/4"
96"	3/8"	3/4"
108"	3/8"	3/4"
120"	1/2"	3/4"

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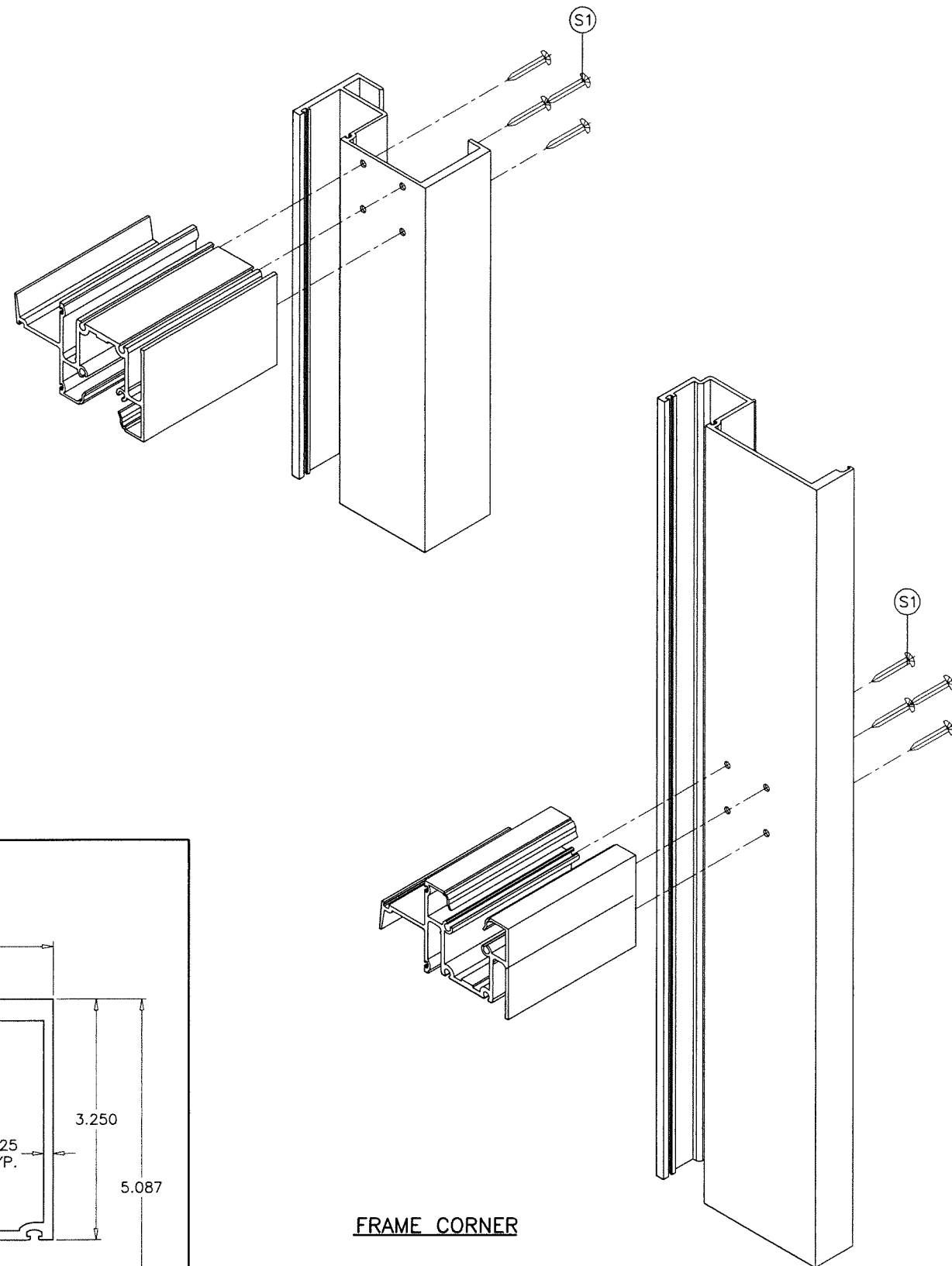
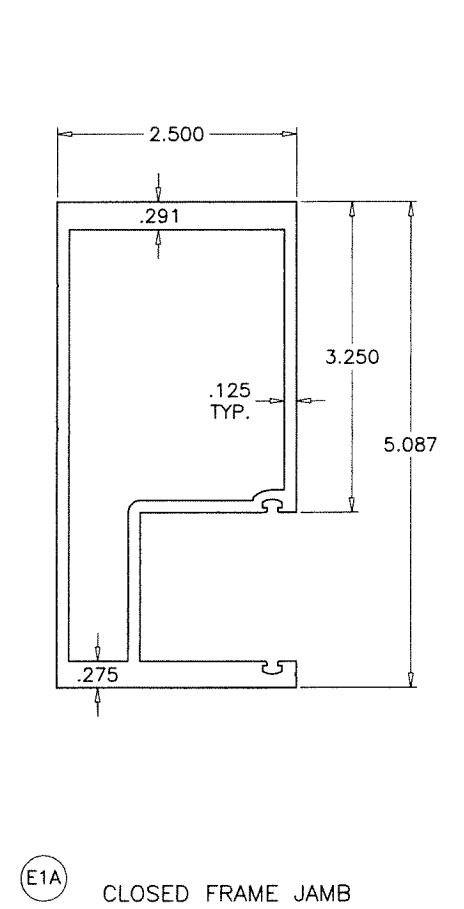
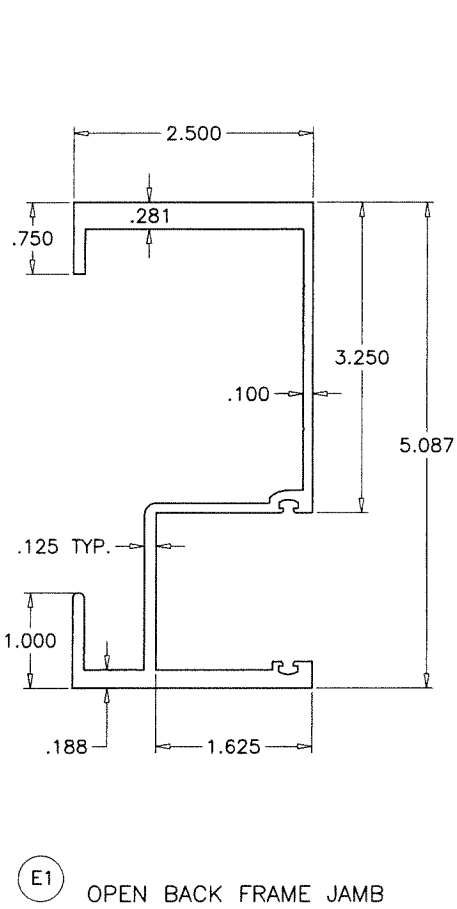
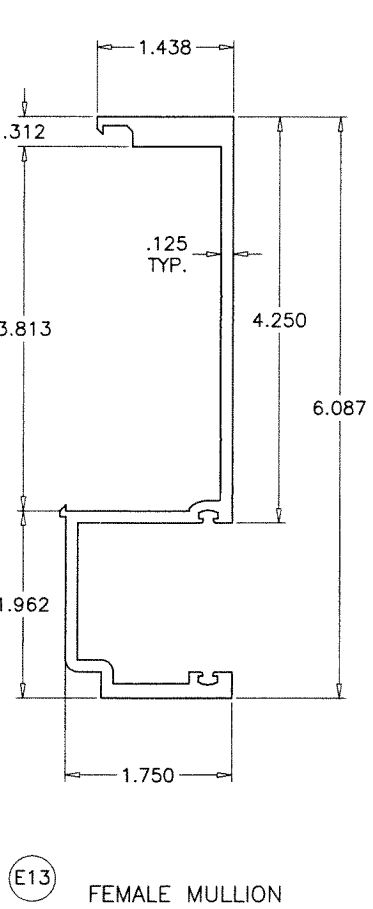
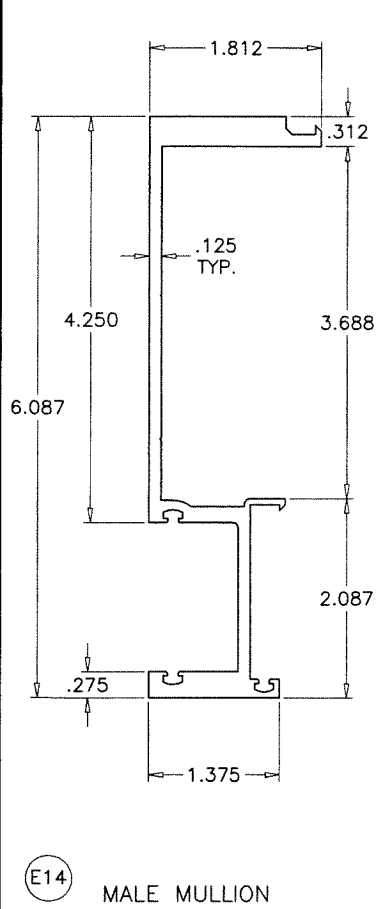
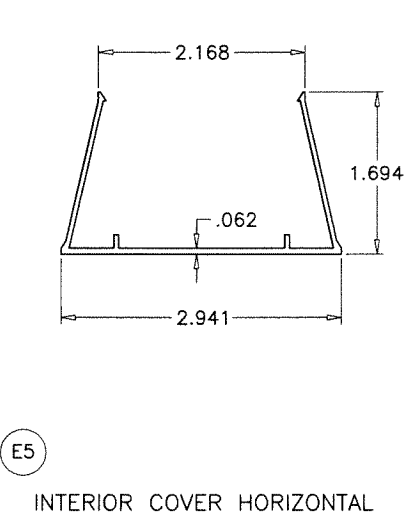
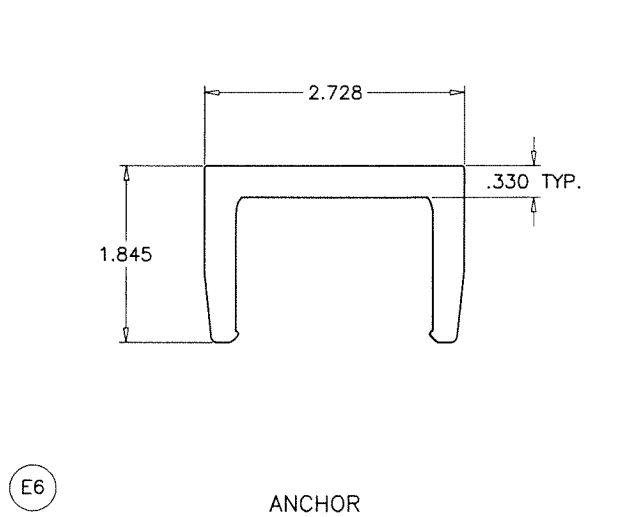
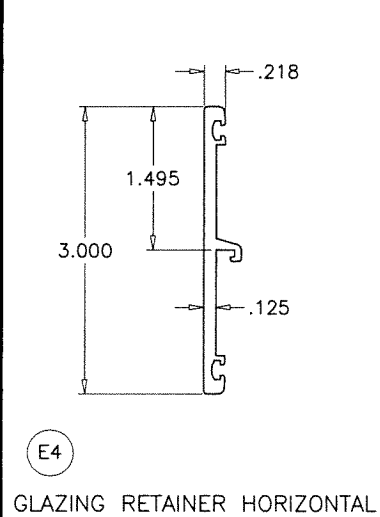
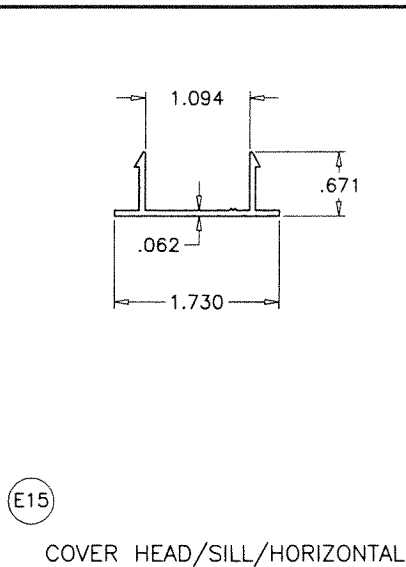
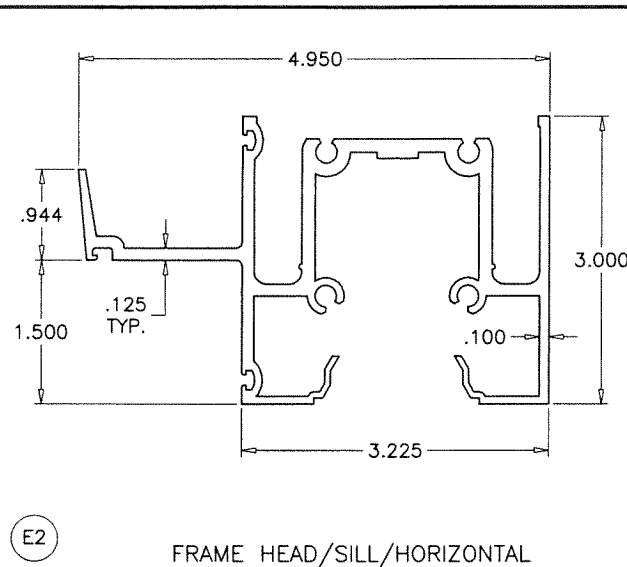
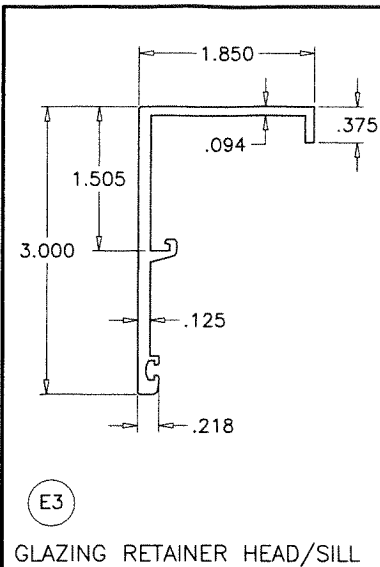
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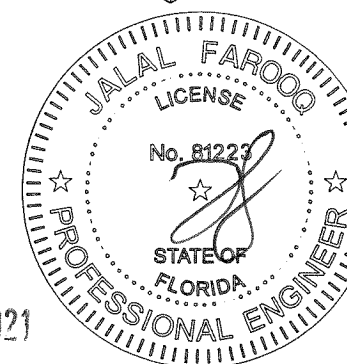
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FRAME CORNER

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