



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

## NOTICE OF ACCEPTANCE (NOA)

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/economy](http://www.miamidade.gov/economy)

**Tecnoglass, LLC**  
3550 N. W. 49<sup>th</sup> 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 "PH3400" 9'11" Aluminum Sliding Glass Door – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W07-107 Rev E**, titled "Series PH 3400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 thru 3, 3.1, 4, 4.1 through 7 of 7, dated 02/06/08 and last revised on MAR 26, 2021, 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

1. See Design Pressure VS anchor type and allowable shim space in table, sheet 2.
2. See insulated laminated glass details in sheet 3.

**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. 18-0926.04** and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P. E.**




NOA No. 21-0405.21  
Expiration Date: July 03, 2025  
Approval Date: May 27, 2021  
Page 1

5/18/21

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- 1. Evidence submitted under previous approvals #08-0312.01**
- A. DRAWINGS**
  1. Manufacturer's die drawings and sections.
  2. Drawing No **W07-107**, titled "Series PH 3400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 7 of 7, dated 02/06/08 with revision "C" dated 09/25/09, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, P. E.
- 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 Aluminum Sliding Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5387**, dated December 21, 2007, signed and sealed by Michael Wenzel, P. E.  
*(Submitted under previous NOA No. 08-0312.01)*
- C. CALCULATIONS**
  1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 07/27/09, prepared by Al-Farooq Corporation, dated 10/01/09, signed and sealed by Arshad Viqar, P. E.
  2. Complies with ASTM E1300-04
- D. QUALITY ASSURANCE**
  1. Miami-Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
  1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
- F. STATEMENTS**
  1. Statement letter of conformance, no financial interest and change, dated July 06, 2009, signed and sealed by Arshad Viqar, P. E.
  2. Addendum letter for Test Report no. **FTL-5387**, issued by Fenestration Testing Laboratory, Inc., dated September 11, 2009, signed and sealed by Julio Gonzalez, P. E.
  3. Statement letter of compliance, as part of the test report.
- G. OTHERS**
  1. Notice of Acceptance No. **08-0312.01**, issued to R. C. Aluminum Industries, Inc. for their Series "**PH3400" 9'11" Aluminum Sliding Glass Door – L.M.I.**", expiring on 07/03/13.
  2. Test Proposal issued by BCCO, dated December 18, 2006, signed by Ishaq Chanda, P. E.

  
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**Ishaq I. Chanda, P. E.**  
Product Control Unit Supervisor  
NOA No. 21-0405.21  
Expiration Date: July 03, 2025  
Approval Date: May 27, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **W07-107 Rev D**, titled "Series PH 3400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 thru 3, 3.1 through 7 of 7, dated 02/06/08 and last revised on Jan 30, 2020, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations complying with FBC2017 (6<sup>th</sup> Edition), prepared by Al Farooq Corporation, dated AUG 22, 2018 and last revised on 01/30/2020, signed and sealed by Javad Ahmad, P.E.

**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. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 6<sup>th</sup> Edition (2017)** and of no financial interest, prepared by Al Farooq Corporation, dated 02/23/18, signed and sealed by Javad Ahmad, P.E.
2. Statement letter issued by Tecnoglass, LLC, dated 01/28/2020 of legal purchase of NOA # 09-0812.14 from RC Aluminum Industries, Inc., signed by Jose Daes (president)
3. Distribution agreement dated 02/17/17 between Energia Solar, SA, Columbia and Tecnoglass, LLC (USA), signed by MS. Carla Garcia, Int'l Sales Manager and MS. Evelyn Daes, General Manager on behalf of their respective companies.
4. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.
5. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12-0223.19**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
6. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State

**G. OTHER**

1. This NOA **revises & renews** expired NOA # **09-0812.14** ((former **RC Aluminum Industries, Inc.**)).
2. Affidavit by Technoglas stating PH 3400 NOA #08-0312.01 (Rev # **09-0812.14**) was transferred from RC Aluminum to Technoglas, signed by Jose Daes (president Technoglas).

  
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**Ishaq I. Chanda, P. E.**  
**Product Control Unit Supervisor**  
**NOA No. 21-0405.21**  
**Expiration Date: July 03, 2025**  
**Approval Date: May 27, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New Evidence submitted.**

**A. DRAWINGS**

1. Drawing No. **W07-107 Rev E**, titled "Series PH 3400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 thru 3, 3.1, 4, 4.1 through 7 of 7, dated 02/06/08 and last revised on MAR 26, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P. E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations complying with FBC2020 (7<sup>th</sup> Edition), prepared by Al Farooq Corporation, dated 03/26/2021, 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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

**F. STATEMENTS (items 2 thru 7 were submitted under file #18-0926.04)**

1. Statement letter of conformance to **FBC 7<sup>th</sup> Edition (2020)** and of no financial interest, prepared by Al Farooq Corporation, dated 03/26/21, signed and sealed by Jalal Farooq, P.E.
2. Statement letter issued by Tecnoglass, LLC, dated 01/28/2020 of legal purchase of NOA # 09-0812.14 from RC Aluminum Industries, Inc., signed by Jose Daes (president)
3. Distribution agreement dated 02/17/17 between Energia Solar, SA, Columbia and Tecnoglass, LLC (USA), signed by MS. Carla Garcia, Int'l Sales Manager and MS. Evelyn Daes, General Manager on behalf of their respective companies.
4. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.
5. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12-0223.19**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
6. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State

**G. OTHER**

1. This NOA revises NOA No. **18-0926.04**, expiring 07/03/25.

  
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**Ishaq I. Chanda, P. E.**  
Product Control Unit Supervisor  
NOA No. 21-0405.21  
Expiration Date: July 03, 2025  
Approval Date: May 27, 2021

DAYLITE OPENINGS:  
D.L.O. HEIGHT = PANEL HEIGHT - 4.188"  
D.L.O. WIDTH (FIX. PANEL) = PANEL WIDTH - 5.875"  
D.L.O. WIDTH (OPER. PANEL) = PANEL WIDTH - 5.500"  
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.375"

# **SERIES PH3400 ALUM SLIDING GLASS DOOR**

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN ON SHEET 2.

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.

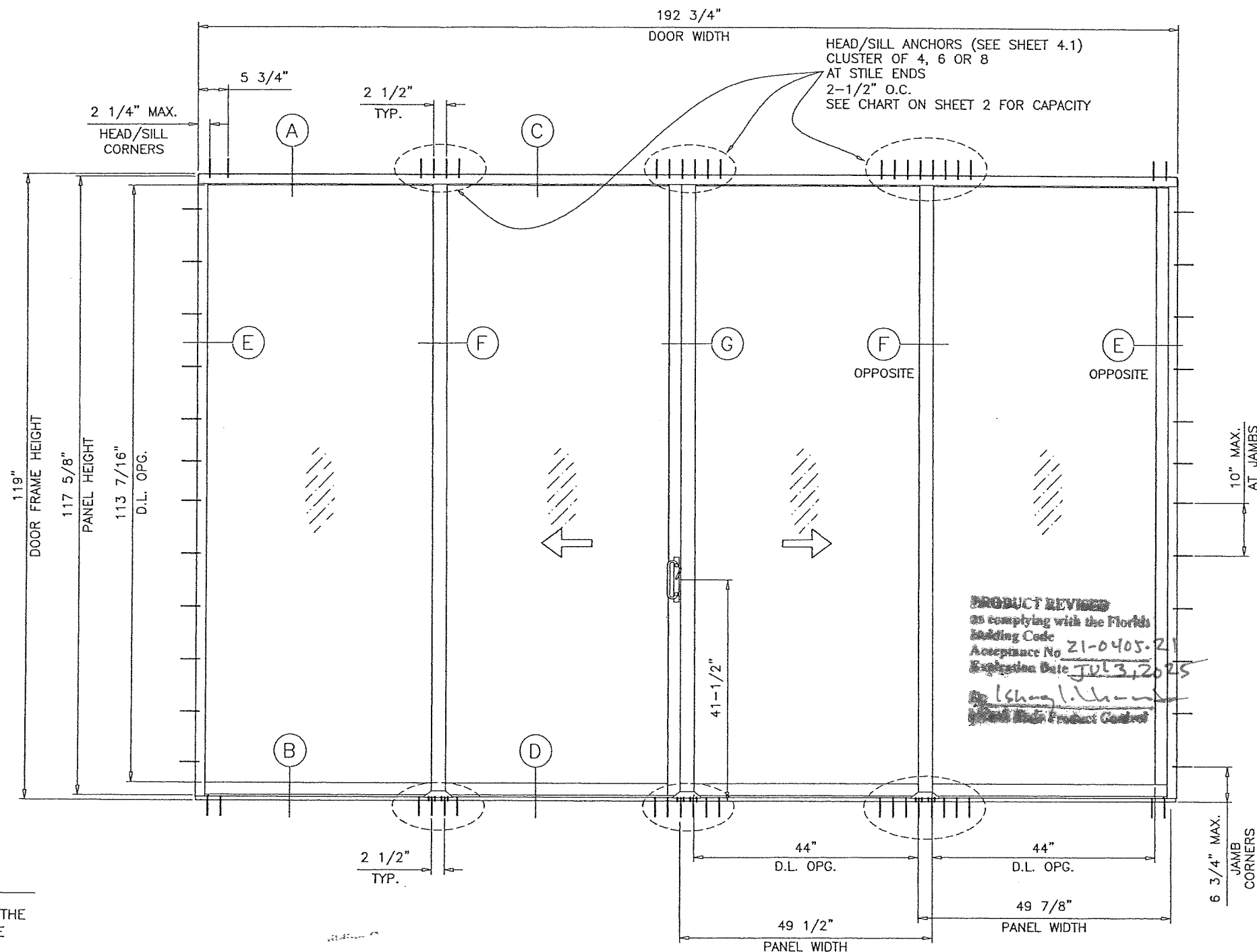
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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.

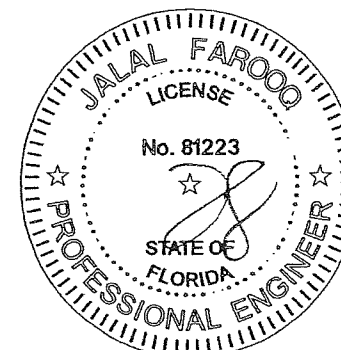
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



**TYPICAL ELEVATION**  
TESTED UNIT (0XX0)

ALTERNATE SIZE UNITS: (4 PANELS OR LESS)  
MAX. FRAME AREA OF DOORS NOT TO EXCEED  
THE TESTED FRAME AREA OF 160 SQ. FT.

**INSUL. LAM. GLASS**  
**LARGE MISSILE IMPACT**



MAR 26 2021

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT AND REQUIRE NO SHUTTERS.

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W07-107RC

SERIES PH3400 ALUM SLIDING GLASS DOOR (L.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	04.04.08	REV. PER BCCO COMMENTS	
B	07.14.09	UPDATED FOR 2007 FBC	
C	09.25.09	REV. PER BCCO COMMENTS	
D	02.26.18	GENERAL REVISION	
E	03.08.21	UPDATED TO 2020 FBC	

date: 02-06-08  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W07-107**  
sheet 1 of 7

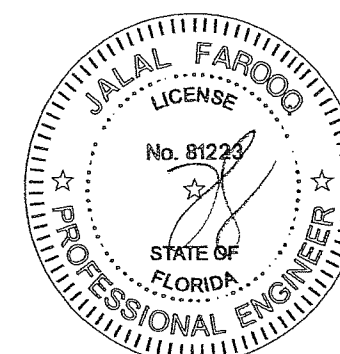
DESIGN LOAD CAPACITY - PSF																							
ANCHOR TYPE		ANCHOR TYPE 'A'						ANCHOR TYPE 'AA'						ANCHOR TYPE 'B'									
SHIM SPACE		1/4" MAX. SHIM			1/2" MAX. SHIM			1/4" MAX. SHIM			1/2" MAX. SHIM			1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	82"	143.2	150.0	150.0	77.4	116.1	150.0	98.0	146.9	150.0	77.4	116.1	150.0	150.0	150.0	150.0	72.7	109.1	145.4	57.2	85.9	114.5	
42		122.8	150.0	150.0	66.4	99.5	132.7	84.0	125.9	150.0	66.4	99.5	132.7	130.8	150.0	150.0	62.3	93.5	124.6	49.1	73.6	98.1	
48		107.4	150.0	150.0	58.1	87.1	116.1	73.5	110.2	146.9	58.1	87.1	116.1	114.4	150.0	150.0	54.5	81.8	109.1	42.9	64.4	85.9	
54		95.5	133.9	133.9	51.6	77.4	103.2	65.3	98.0	130.6	51.6	77.4	103.2	101.7	133.9	133.9	48.5	72.7	96.9	38.2	57.2	76.3	
60		85.9	120.5	120.5	46.5	69.7	92.9	58.8	88.2	117.5	46.5	69.7	92.9	91.6	120.5	120.5	43.6	65.4	87.2	34.3	51.5	68.7	
66		78.1	109.5	109.5	42.2	63.3	84.5	53.4	80.1	106.9	42.2	63.3	84.5	83.2	109.5	109.5	39.7	59.5	79.3	31.2	46.8	62.5	
36	84	139.8	150.0	150.0	75.6	113.4	150.0	95.6	143.4	150.0	75.6	113.4	150.0	149.0	150.0	150.0	71.0	106.5	141.9	55.9	83.8	111.8	
42		119.8	150.0	150.0	64.8	97.2	129.6	82.0	122.9	150.0	64.8	97.2	129.6	127.7	150.0	150.0	60.8	91.2	121.7	47.9	71.9	95.8	
48		104.9	150.0	150.0	56.7	85.0	113.4	71.7	107.6	143.4	56.7	85.0	113.4	111.7	150.0	150.0	53.2	79.8	106.5	41.9	62.9	83.8	
54		93.2	133.9	133.9	50.4	75.6	100.8	63.7	95.6	127.5	50.4	75.6	100.8	99.3	133.9	133.9	47.3	71.0	94.6	37.3	55.9	74.5	
60		83.9	120.5	120.5	45.3	68.0	90.7	57.4	86.1	114.7	45.3	68.0	90.7	89.4	120.5	120.5	42.6	63.9	85.2	33.5	50.3	67.1	
66		76.3	109.5	109.5	41.2	61.8	82.5	52.2	78.2	104.3	41.2	61.8	82.5	81.2	109.5	109.5	38.7	58.1	77.4	30.5	45.7	61.0	
36	90	130.5	150.0	150.0	70.5	105.8	141.1	89.2	133.9	150.0	70.5	105.8	141.1	139.0	150.0	150.0	66.2	99.4	132.5	52.2	78.2	104.3	
42		111.8	150.0	150.0	60.5	90.7	120.9	76.5	114.7	150.0	60.5	90.7	120.9	119.2	150.0	150.0	56.8	85.2	113.6	44.7	67.1	89.4	
48		97.9	146.8	150.0	52.9	79.4	105.8	66.9	100.4	133.9	52.9	79.4	105.8	104.3	150.0	150.0	49.7	74.5	99.4	39.1	58.7	78.2	
54		87.0	130.5	133.9	47.0	70.5	94.1	59.5	89.2	119.0	47.0	70.5	94.1	92.7	133.9	133.9	44.2	66.2	88.3	34.8	52.2	69.5	
60		78.3	117.4	120.5	42.3	63.5	84.7	53.5	80.3	107.1	42.3	63.5	84.7	83.4	120.5	120.5	39.7	59.6	79.5	31.3	46.9	62.6	
36	96	122.3	150.0	150.0	66.1	99.2	132.3	83.7	125.5	150.0	66.1	99.2	132.3	130.3	150.0	150.0	62.1	93.2	124.2	48.9	73.4	97.8	
42		104.9	150.0	150.0	56.7	85.0	113.4	71.7	107.6	143.4	56.7	85.0	113.4	111.7	150.0	150.0	53.2	79.8	106.5	41.9	62.9	83.8	
48		91.8	137.6	150.0	49.6	74.4	99.2	62.8	94.1	125.5	49.6	74.4	99.2	97.8	146.6	150.0	46.6	69.9	93.2	36.7	55.0	73.4	
54		81.6	122.3	133.9	44.1	66.1	88.2	55.8	83.7	111.6	44.1	66.1	88.2	86.9	130.3	133.9	41.4	62.1	82.8	32.6	48.9	65.2	
36	102	115.1	150.0	150.0	62.2	93.4	124.5	78.7	118.1	150.0	62.2	93.4	124.5	122.7	150.0	150.0	58.4	87.7	116.9	46.0	69.0	92.0	
42		98.7	148.0	150.0	53.4	80.0	106.7	67.5	101.2	135.0	53.4	80.0	106.7	105.1	150.0	150.0	50.1	75.1	100.2	39.4	59.2	78.9	
48		86.4	129.5	150.0	46.7	70.0	93.4	59.1	88.6	118.1	46.7	70.0	93.4	92.0	138.0	150.0	43.8	65.8	87.7	34.5	51.8	69.0	
54		76.8	115.1	133.9	41.5	62.2	83.0	52.5	78.7	105.0	41.5	62.2	83.0	81.8	122.7	133.9	39.0	58.4	77.9	30.7	46.0	61.4	
36	108	108.7	150.0	150.0	58.8	88.2	117.6	74.4	111.6	148.7	58.8	88.2	117.6	115.9	150.0	150.0	55.2	82.8	110.4	43.5	65.2	86.9	
42		93.2	139.8	150.0	50.4	75.6	100.8	63.7	95.6	127.5	50.4	75.6	100.8	99.3	149.0	150.0	47.3	71.0	94.6	37.3	55.9	74.5	
48		81.6	122.3	150.0	44.1	66.1	88.2	55.8	83.7	111.6	44.1	66.1	88.2	86.9	130.3	150.0	41.4	62.1	82.8	32.6	48.9	65.2	
36	114	103.0	150.0	150.0	55.7	83.5	111.4	70.5	105.7	140.9	55.7	83.5	111.4	109.8	150.0	150.0	52.3	78.4	104.6	41.2	61.8	82.4	
42		88.3	132.5	150.0	47.7	71.6	95.5	60.4	90.6	120.8	47.7	71.6	95.5	94.1	141.1	150.0	44.8	67.2	89.6	35.3	52.9	70.6	
48		77.3	115.9	146.4	41.8	62.7	83.5	52.8	79.3	105.7	41.8	62.7	83.5	82.3	123.5	146.4	39.2	58.8	78.4	30.9	46.3	61.8	
36	119	98.7	148.0	150.0	53.4	80.0	106.7	67.5	101.2	135.0	53.4	80.0	106.7	105.1	150.0	150.0	50.1	75.1	100.2	39.4	59.2	78.9	
42		84.6	126.9	150.0	45.7	68.6	91.5	57.9	86.8	115.7	45.7	68.6	91.5	90.1	135.2	150.0	42.9	64.4	85.9	33.8	50.7	67.6	
48		74.0	111.0	142.5	40.0	60.0	80.0	50.6	75.9	101.2	40.0	60.0	80.0	78.9	118.3	142.5	37.6	56.4	75.1	29.6	44.4	59.2	

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY  
EGRESS REQUIREMENTS PER FBC AS APPLICABLE.

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 REVISIONS  
as complying with the Florida  
Building Code  
Acceptance No. 21-0405.21  
Expiration Date 7/3/25  
By: *[Signature]*  
Jalal Farooq Product Control

MAR 26 2021



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

SERIES PH3400 ALUM SLIDING GLASS DOOR (L.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
A	04.04.08		REV. PER BCCO COMMENTS
B	07.14.09		UPDATED FOR 2007 FBC
C	09.25.09		NO CHANGE THIS SHEET
D	02.26.18		GENERAL REVISION
E	03.08.21		UPDATED TO 2020 FBC

date: 02-06-08

scale: 1/2" = 1"

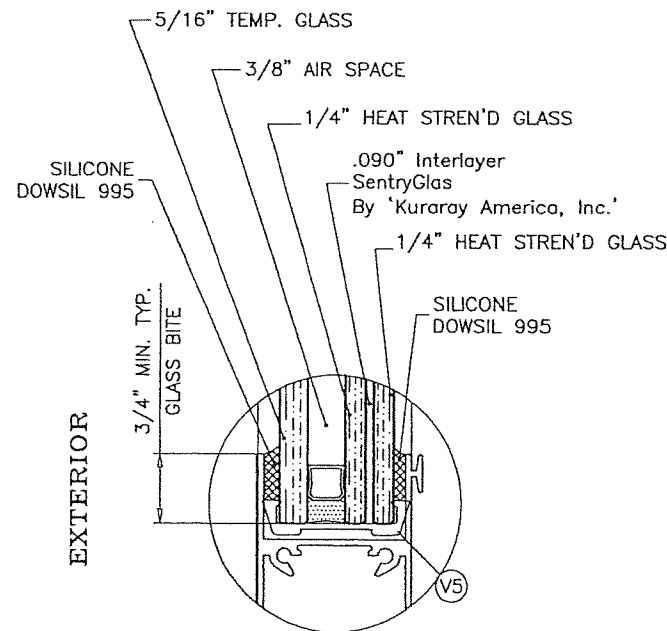
dr. by: TARIQ

chk. by:

drawing no.  
**W07-107**

sheet 2 of 7

COMP-ANL\W07-107RC



GLAZING DETAIL

1-1/4" OVERALL INSUL. LAM. GLASS

3/8" 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

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3400-001	1/ PANEL	INTERLOCK STILE INSIDE	6005-T5	-
E2	PH3400-002	1	LOCK STILE	6063-T6	-
E4	PH3400-004	1/ FIX. PANEL	JAMB STILE	6063-T6	-
E5	PH3400-005	2	FRAME JAMB	6063-T6	-
E6	PH3400-006	1	FRAME HEAD	6005-T5	-
E7	PH3400-007	1	SILL TRACK	6005-T5	-
E8	PH3400-008	1	SILL THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E9	PH3400-009	1	HEAD CLOSURE ADAPTOR (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E10	PH3400-010	1/ MOV. PANEL	MOVING OUTSIDE TOP RAIL	6063-T6	-
E11	PH3400-011	1/ MOV. PANEL	MOVING OUTSIDE BOTTOM RAIL	6005-T5	-
E12	PH3400-012	1/ FIX. PANEL	FIXED INSIDE TOP RAIL	6063-T6	-
E13	PH3400-013	1/ FIX. PANEL	FIXED INSIDE BOTTOM RAIL	6063-T6	-
E14	2400ST-031	AS REQD.	SILL TRACK PLATE, 5" LONG AT ENDS, 10" LONG AT STILE LOCATIONS	6061-T6	-
E15	2400ST-040	AS REQD.	SCREEN TRACK INSIDE	-	-
E16	2400ST-056	AS REQD.	SCREEN VERTICAL JAMB	-	-
E17	2400ST-057	AS REQD.	SCREEN TOP & BOTTOM RAIL	-	-
E18	PH3400-016	AS REQD.	HEAVY INTERLOCK STILE OUTSIDE	6005-T5	-
E19	PH3400-015	AS REQD.	HEAVY MEETING STILE	6005-T5	-
S1		2/ CORNER	#14 X 1" PH SMS TYPE "B" ST/ST	-	FRAME ASSY SCREWS
S2		2/ CORNER	#10 X 1" PH SMS TYPE "B" ST/ST	-	PANEL ASSY SCREWS
S3		AS REQD.	#10 X 3/4" PH.SMS. ST/ST	-	-
S5		4/ CLIP	1/4-20 X 3/4" LG. SOGKET HEAD CAP SCREW	ST/ST	-
V1	V-019	1/ MOV. PANEL	DRIP SILL VINYL	SOFT PVC	-
V2	V-026	AS REQD.	BULB VINYL	SOFT PVC	-
V3	V-047	AS REQD.	BULB VINYL	-	-
V5	V-073	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS LMI	EPDM	-
M1	U54	-	Q-LON 375T270 @ INTERLOCK, JAMBS & MTG. STILES	-	-
M2	W31235NIK	AS REQD.	PILE WITH PLASTIC FIN W'STRIPPING	-	-
M3	E16-106W/B	AS REQD.	SILICONE BUMPER	-	-
M4	DOWSIL 995	-	BLACK SILICONE (LMI)	-	-
M5	CCES-1003	-	ROLLER TRACK COVER	ST/ST	-
M6	RC 00151W/D	-	SILL ANCHOR TRACK	6005-T5	6" LONG
M7	U56	-	Q-LON 250T270 @ HEAD ADAPTOR & SILL THRESHOLD	-	-
H1	10 0030 01	1	(WIPI) HARDWARE	-	-
H2	10 0071 01	2/ MOV. PANEL	(WIPI) ROLLER LARGE	-	-

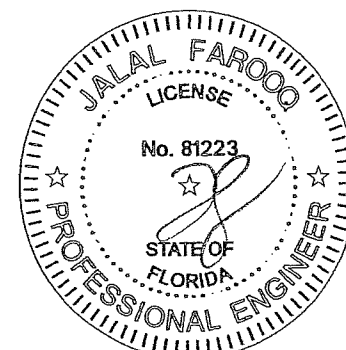
SEALANTS:

ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.

LOCKS:

THREE PLY METALLIC HOOK LOCK WITH SURFACE MOUNT METALLIC HANDLE AT 42" FROM BOTTOM.  
LOCK FASTENED WITH (2) #6 X 1/2" FH MACHINE SCREWS AND HANDLE FASTENED WITH (2) #8 X 2-1/4" OH MACHINE SCREWS.  
SURFACE MOUNT METALLIC KEEPERS AT 42" FROM BOTTOM FASTENED WITH (2) #10 X 3/4" PH SMS.

PRODUCT REVISED  
as complying with the Florida  
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Expiration Date 7/31/25  
Jalal Farooq  
Jalal Farooq Product Control



MAR 26 2021

**afC**  
**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\W07-107RC

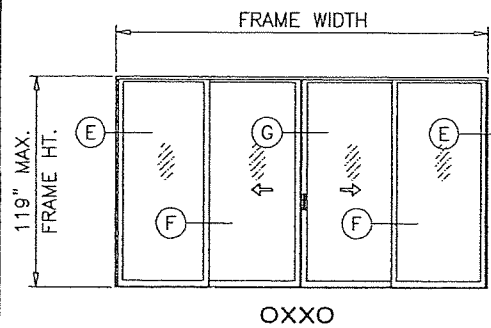
SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)  
**TECNOGLASS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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A	04.04.08		NO CHANGE THIS SHEET	
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D	02.26.18		GENERAL REVISION	
E	03.08.21		UPDATED TO 2020 FBC	

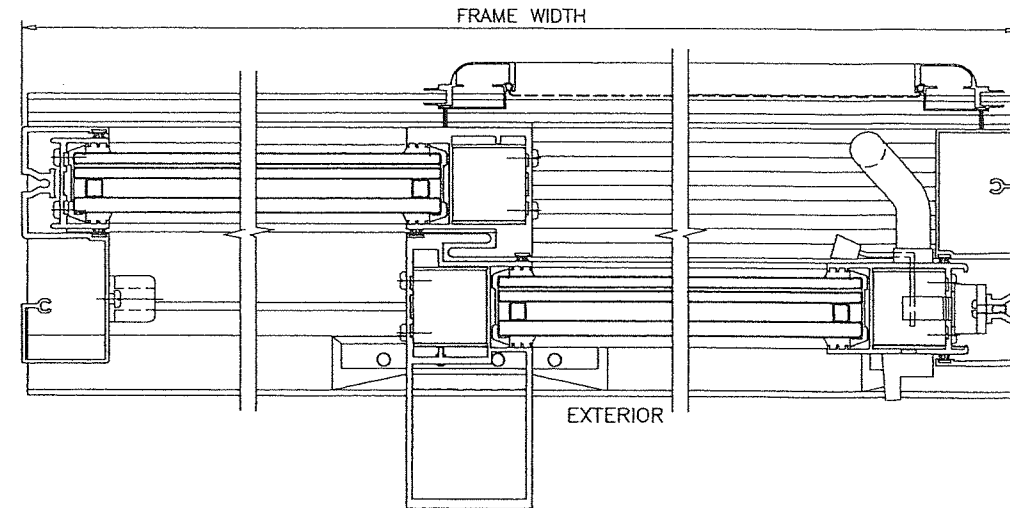
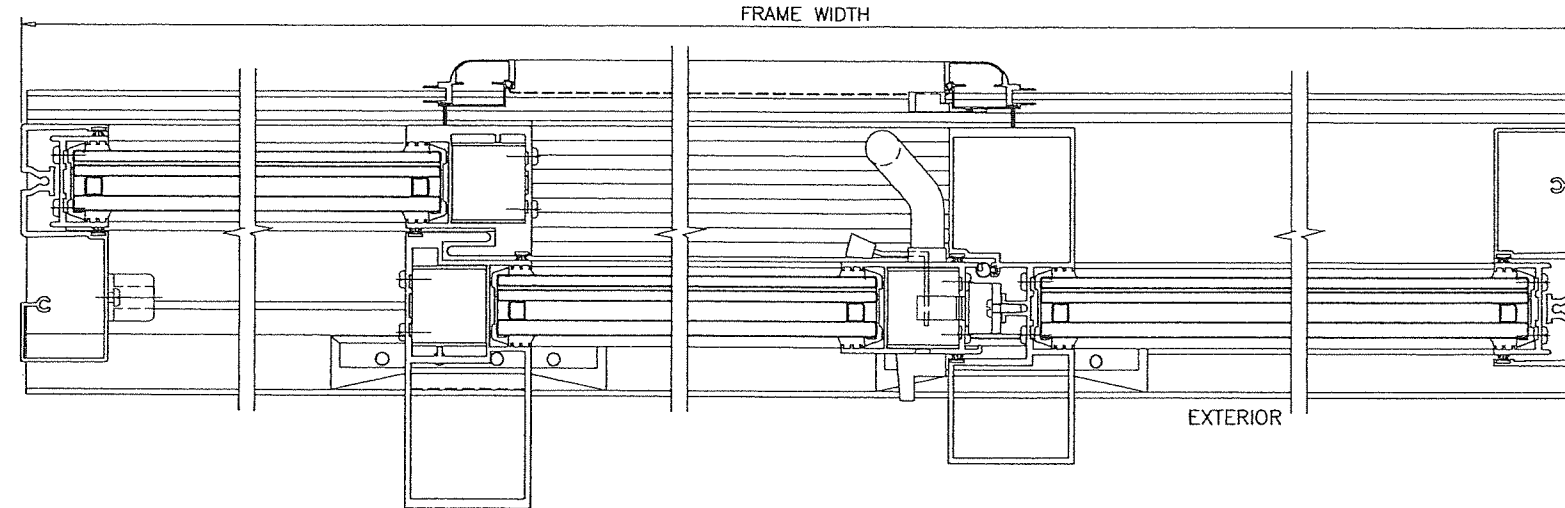
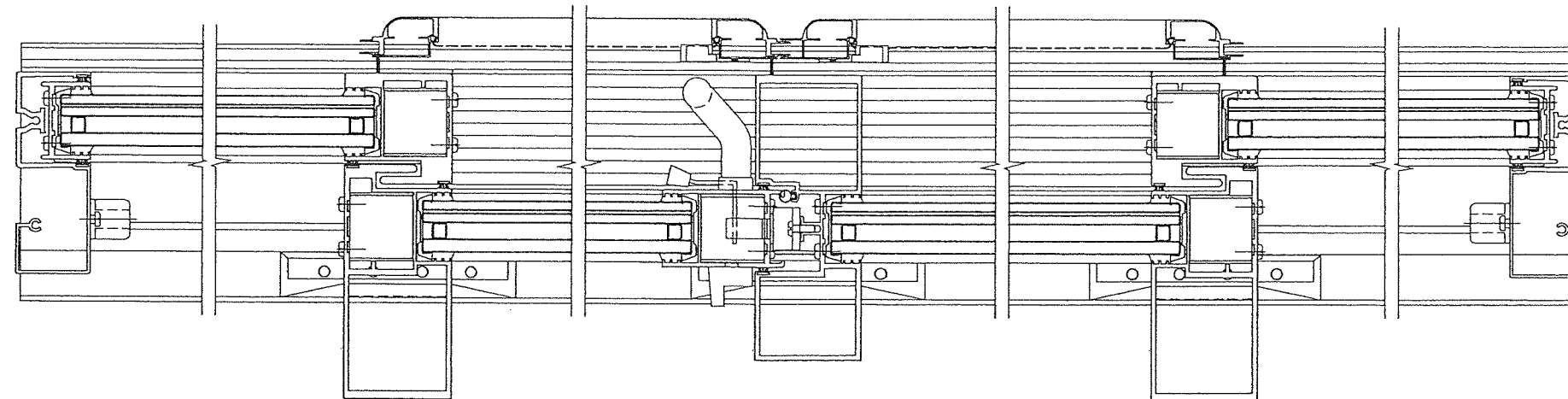
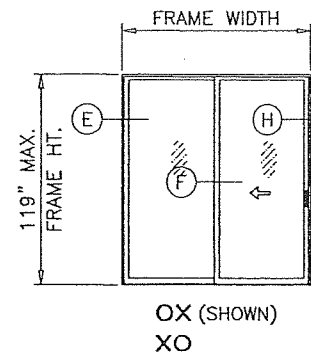
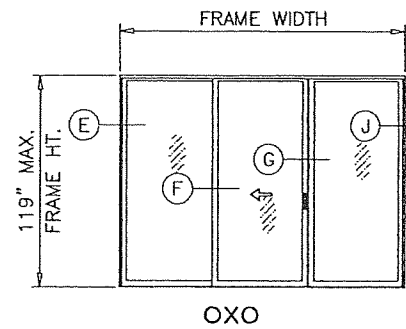
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scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**W07-107**  
sheet 3 of 7



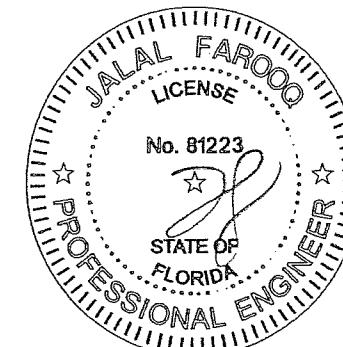


APPROVED CONFIGURATIONS



- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 2.
  3. FOR ANCHOR DETAILS SEE SHEETS 4 THRU 5.

PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 21-0405-2  
Expiration Date 7/3/25  
by: [Signature]  
for: [Signature] Product Control



MAR 26 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**

COMP-ANL\W07-107RC

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SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

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Revisions:	
no.	description
C	09.25.09 REV. PER BCCO COMMENTS
D	02.26.18 GENERAL REVISION
E	03.08.21 UPDATED TO 2020 FBC

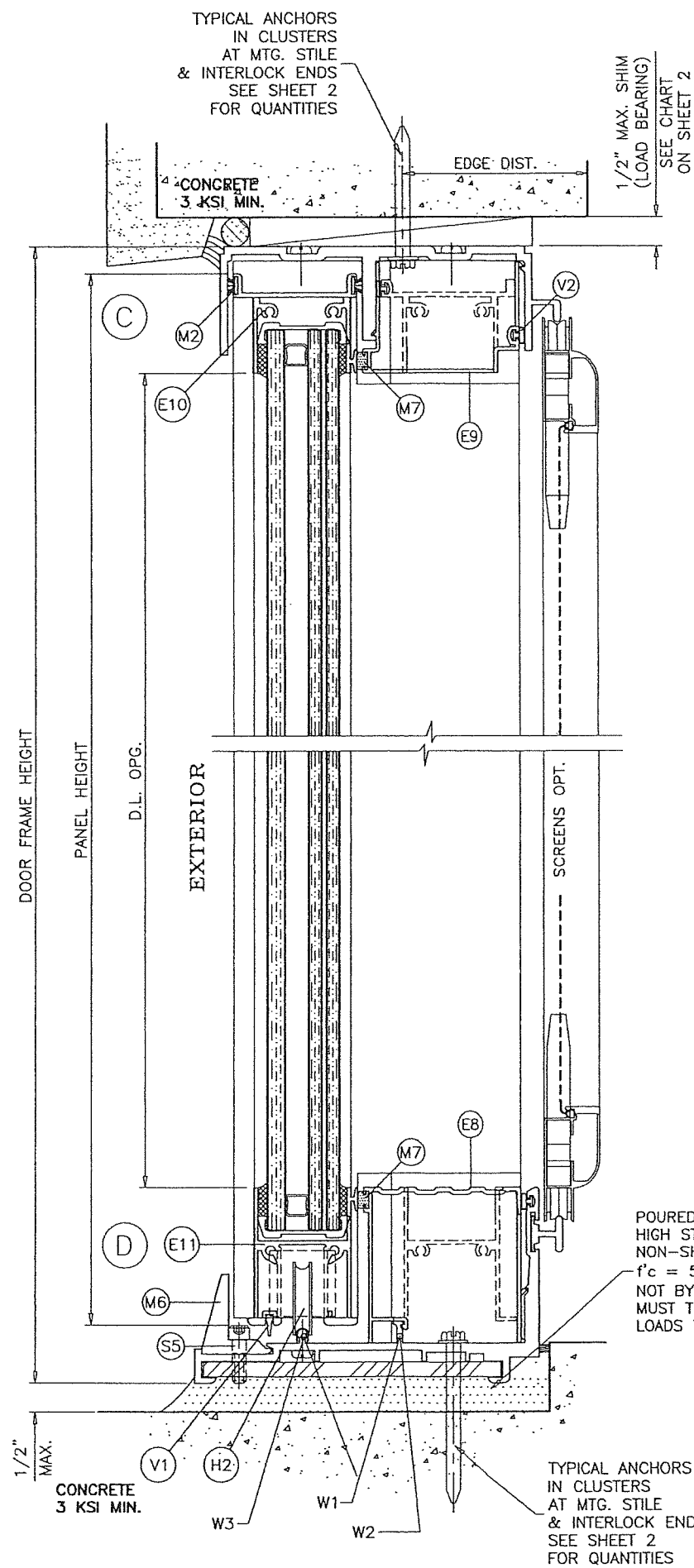
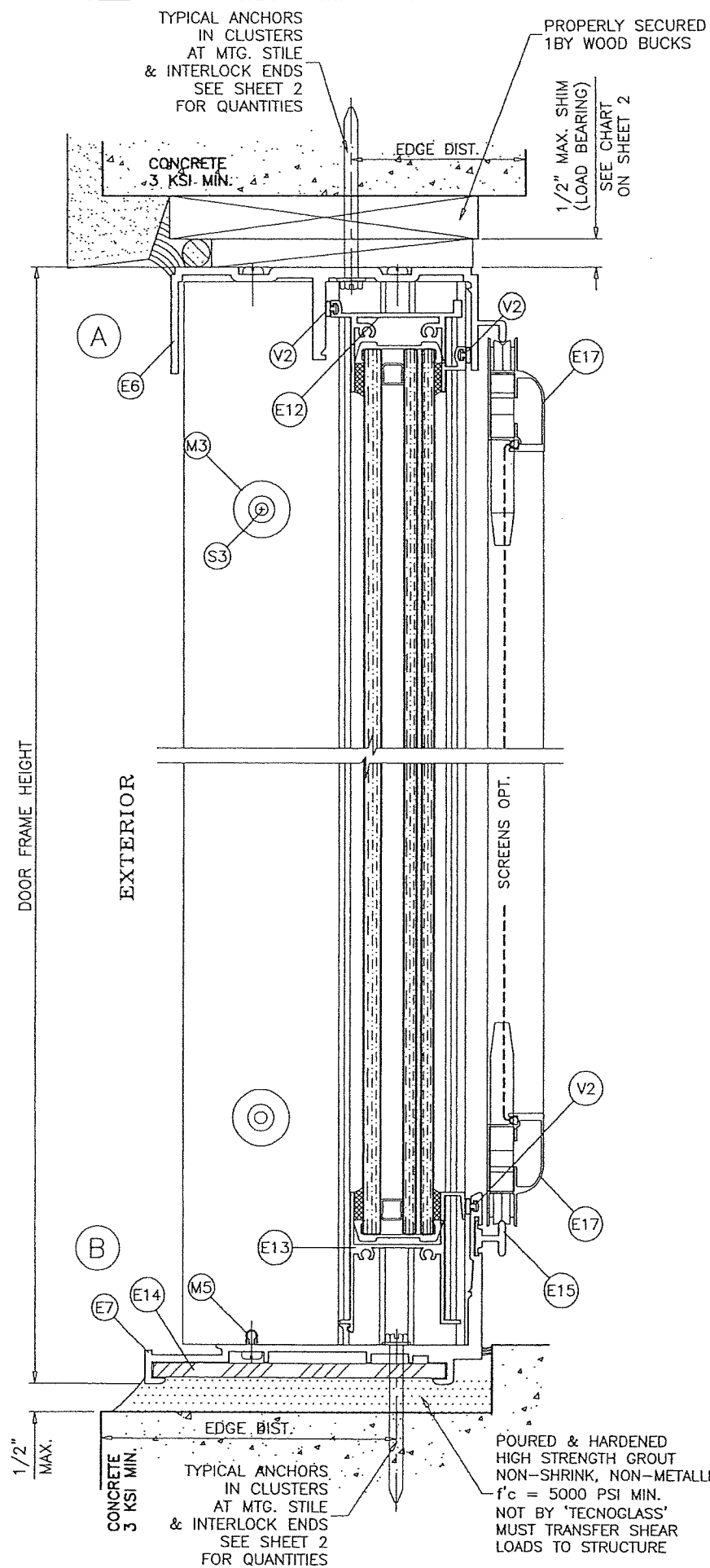
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date: 02-06-08	scale: -	dr. by: TARIQ	chk. by:
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drawing no. W07-107	sheet 3.1 of 7
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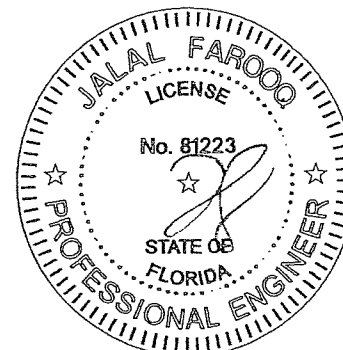


# **WEEPS:**

W1 = 3/4" WEEP NOTCH AT EACH END OF EACH TRACK  
W2 = 1-3/4" NOTCH AT MIDSPAN OF FIX. PANEL TRACK  
W3 = 2-1/2" NOTCH AT MIDSPAN OF MOV. PANEL TRACK

**PRODUCT REVISED**  
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*[Signature]*  
Miami Made Product Control

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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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COMP-ANL W07-107RC

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drawing no.  
**W07-107**

sheet 4 of 7

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no.	date	by	description
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E	03.08.21	UPDATED TO 2020 FBC	

date: 02-06-08

scale: 3/8" = 1"

dr. by: TARIQ

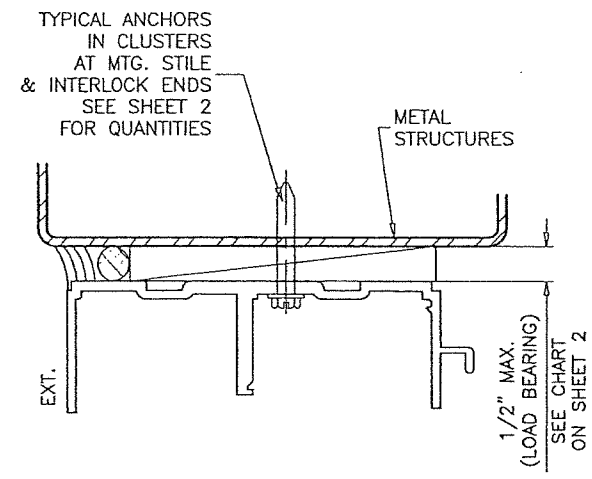
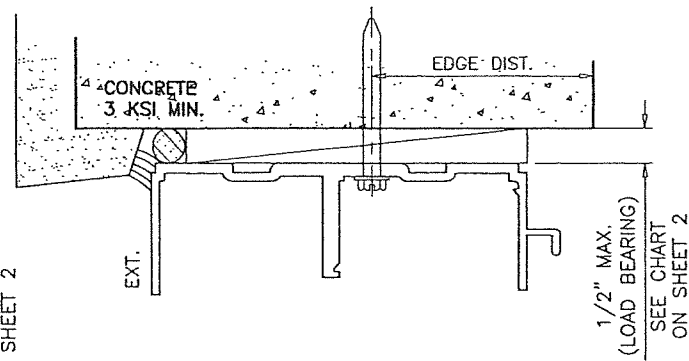
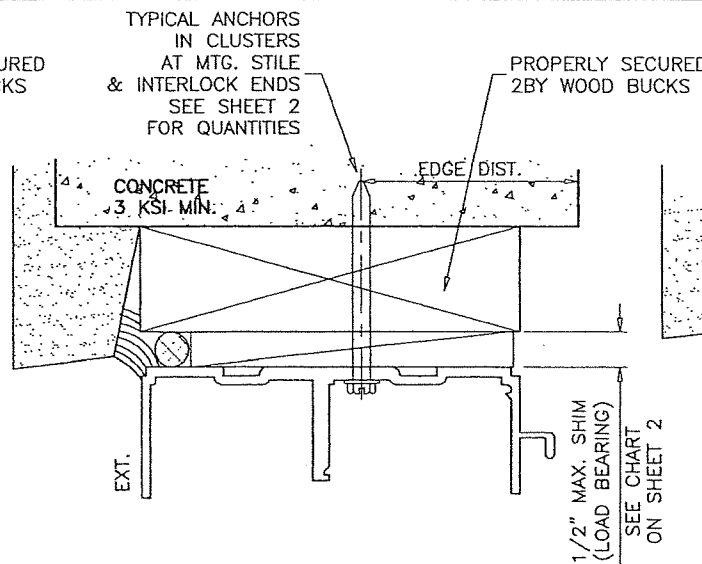
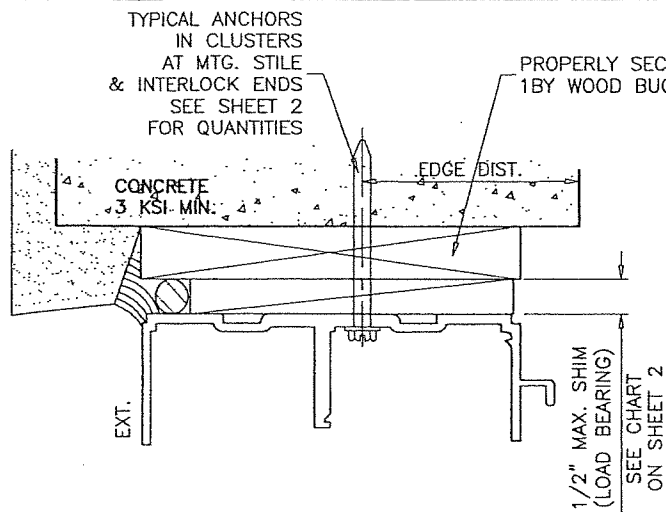
chk. by:

date: 02-06-08

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**AT HEAD**

**TYPE 'A'**

**1/4" X 2-3/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
DIRECTLY INTO CONCRETE  
2" MIN. EMBED INTO CONCRETE

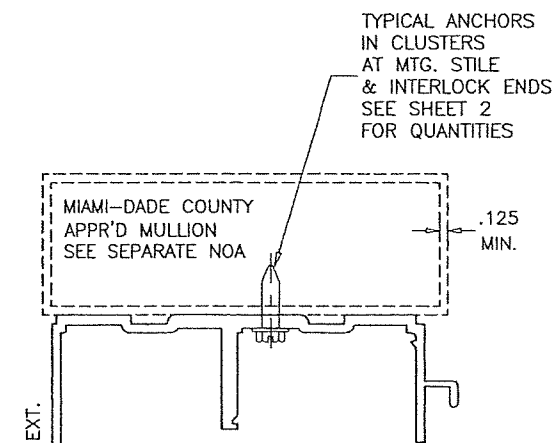
**TYPE 'AA'**

**1/4" X 2-3/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
THRU 1BY WOOD BUCKS INTO CONCRETE, 1-1/4" MIN. CONC. EMBED  
THRU 2BY WOOD BUCKS INTO CONCRETE, 1/2" MIN. CONC. EMBED

**TYPE 'B'**

**1/4" DIA. TEKS OR 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)

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'TECNOGLASS'  
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM  
TO THE BUILDING STRUCTURE.



**AT SILL**

**1/4" X 2-3/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
DIRECTLY INTO CONCRETE  
1-1/2" MIN. EMBED INTO CONCRETE

**AT JAMBS**

**1/4" X 2-3/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
DIRECTLY INTO CONCRETE OR BLOCKS  
2" MIN. EMBED INTO GROUT FILLED BLOCKS  
2" MIN. EMBED INTO CONCRETE

**1/4" X 2-3/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD

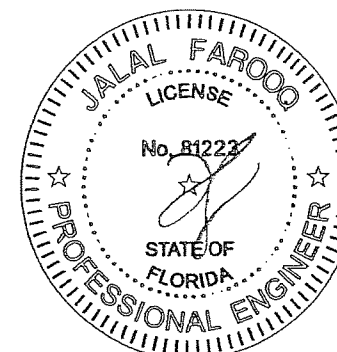
THRU 1BY WOOD BUCKS INTO CONC. OR BLOCK, 1-1/4" MIN. CONC. OR BLOCK EMBED  
THRU 2BY WOOD BUCKS INTO CONC. OR BLOCK, 1/2" MIN. CONC. OR BLOCK EMBED

**1/4" DIA. TEKS OR 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 OR CMU = 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.

MAR 26 2021



**PRODUCT REVIEW**  
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Building Code  
Acceptance No. 21-0405-2  
Expiration Date 7/3/25  
By: [Signature]  
Official Mark Product Control

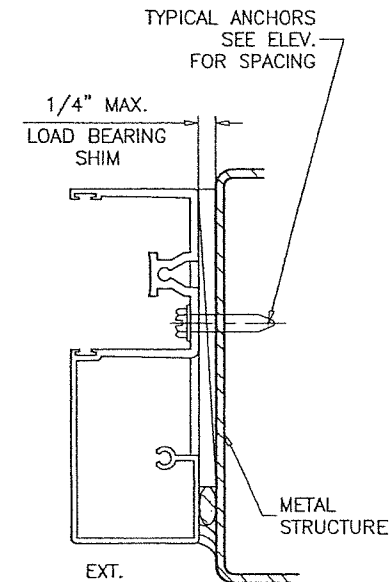
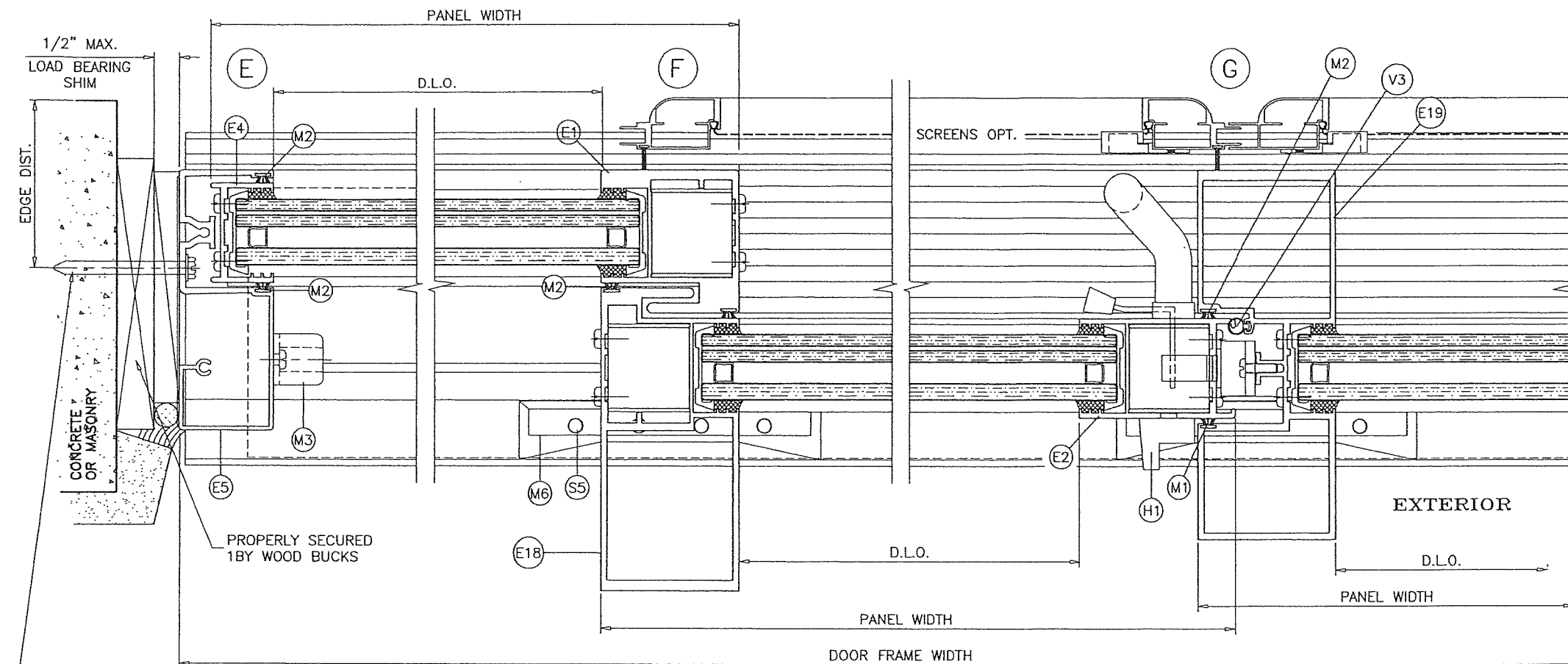
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W07-107RC

**TECNOGLASS, LLC**  
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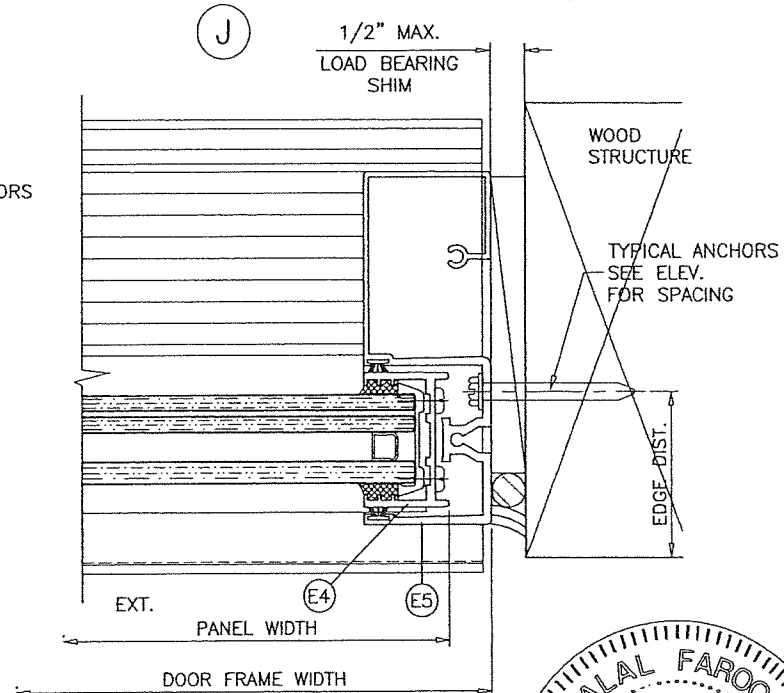
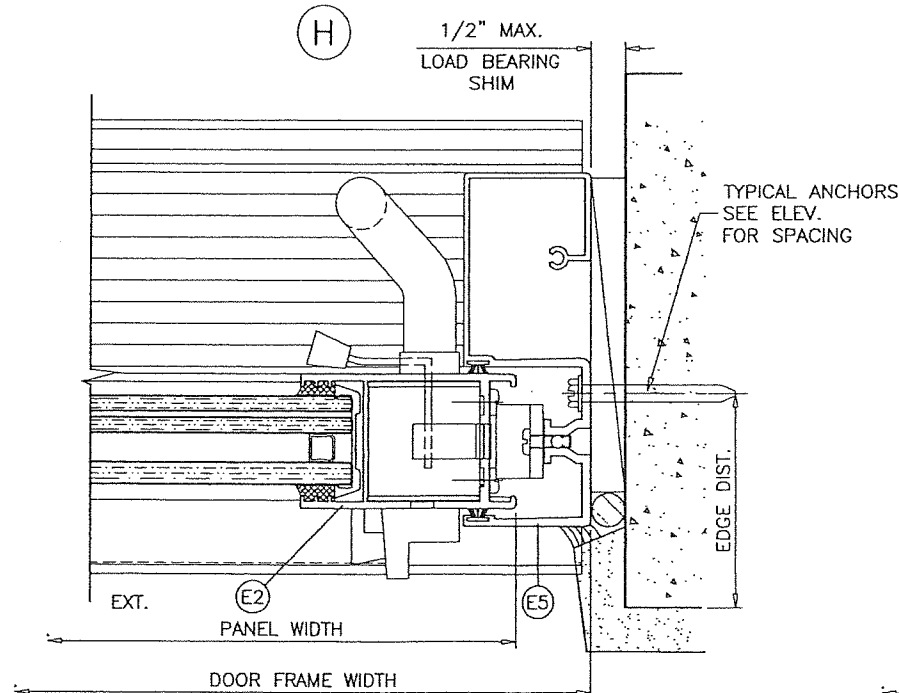
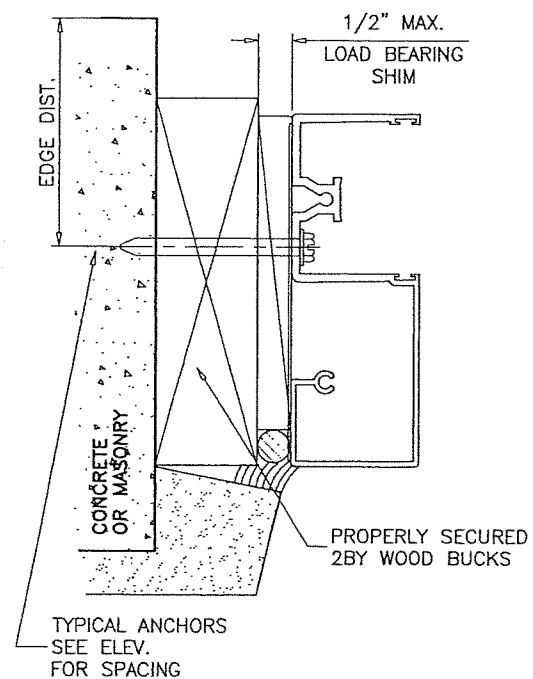
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chk. by:

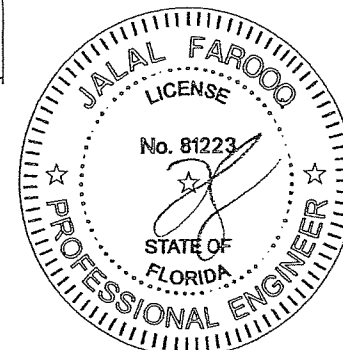
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**W07-107**  
sheet 4.1 of 7



PRODUCT REVISED  
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Jalal Farooq  
Jalal Farooq Product Control



MAR 26 2021



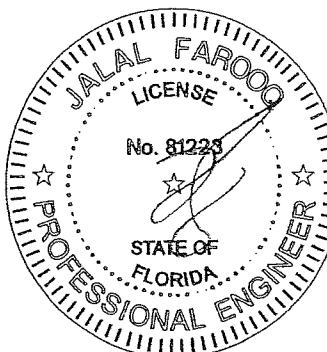
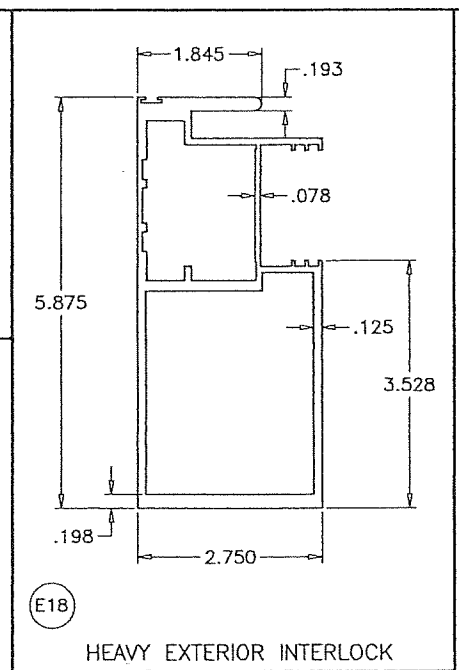
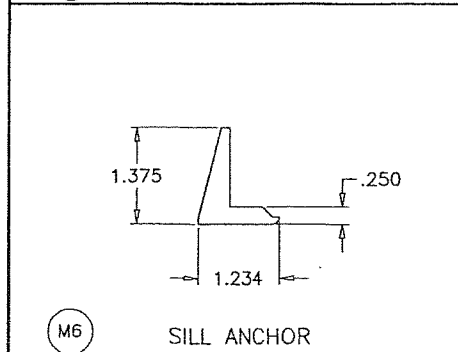
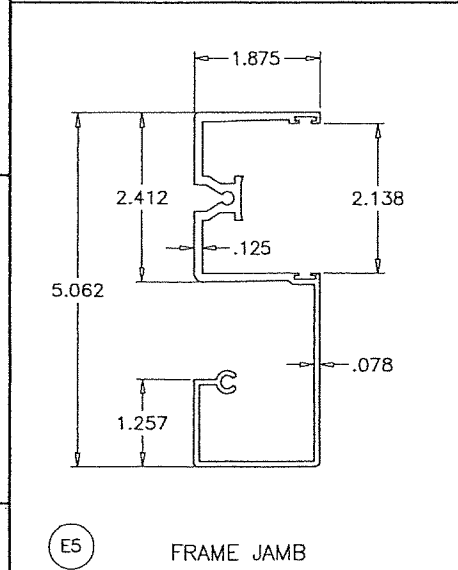
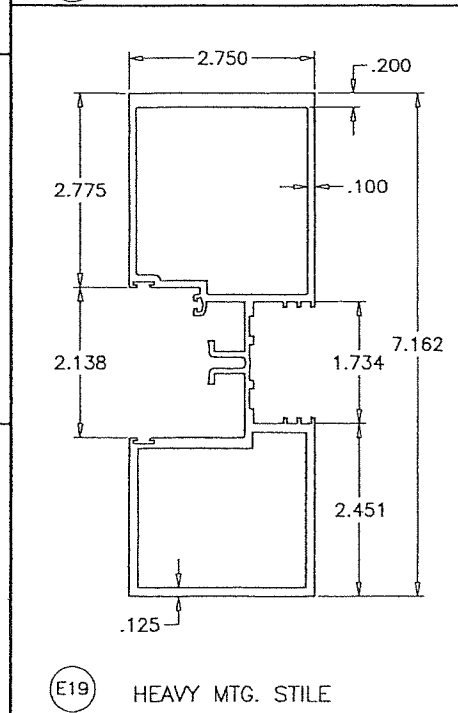
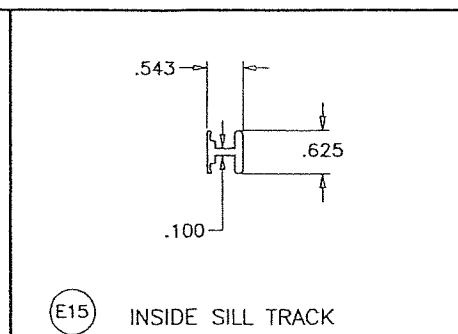
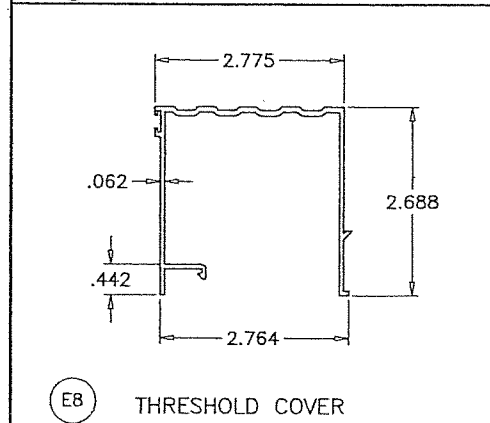
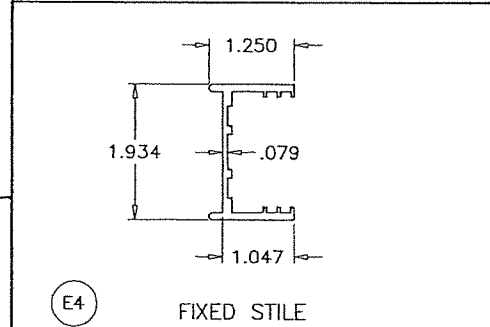
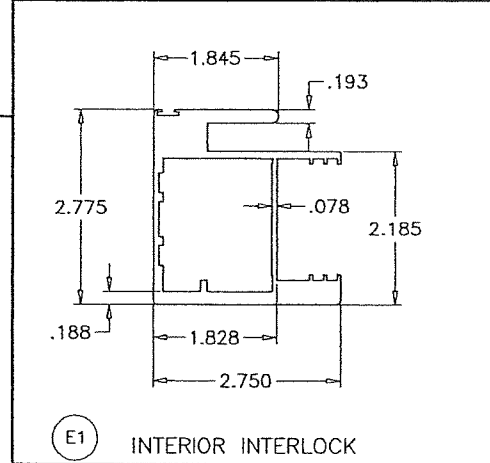
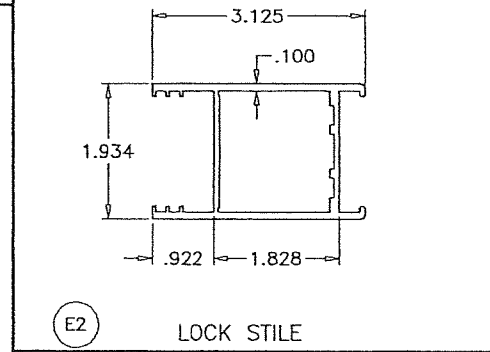
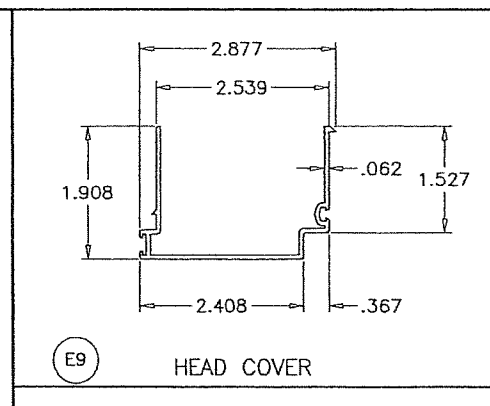
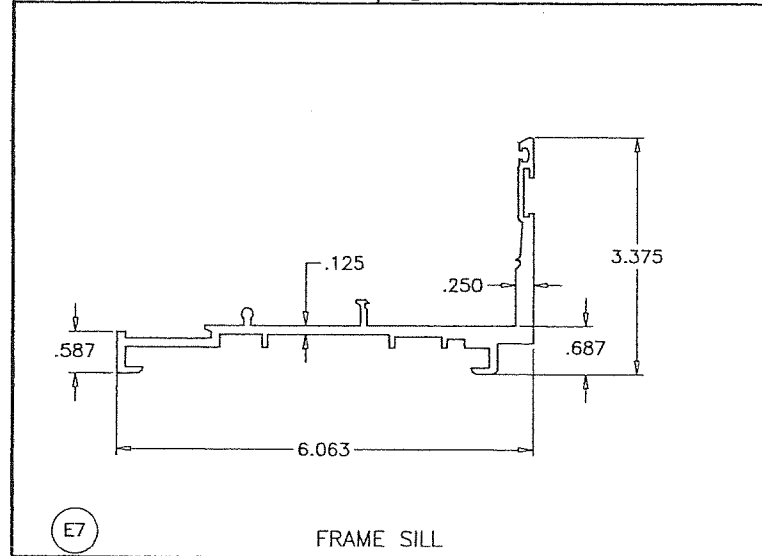
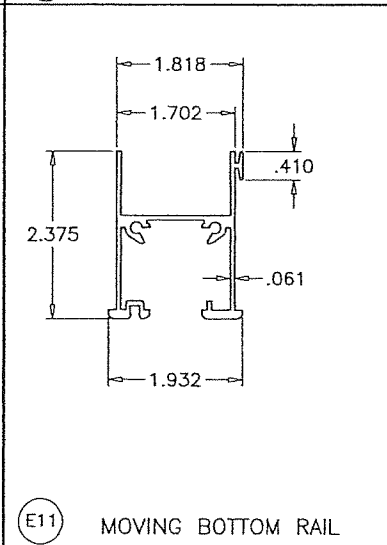
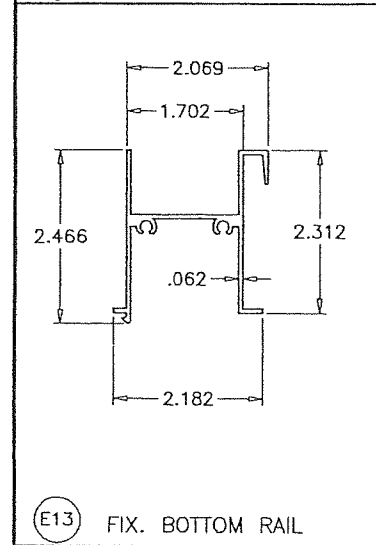
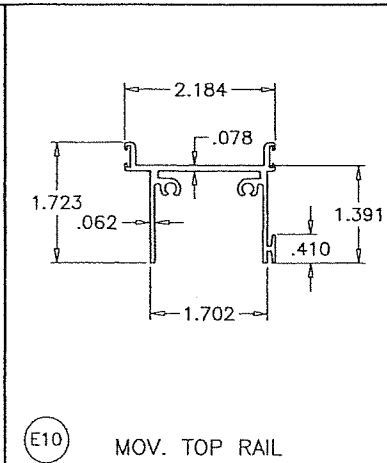
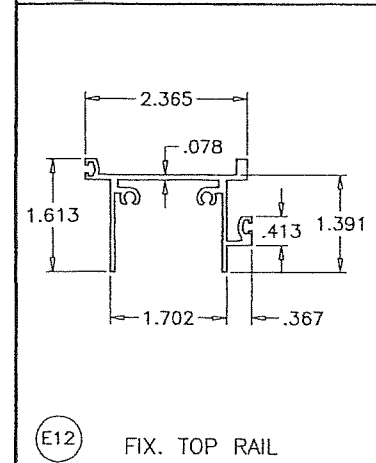
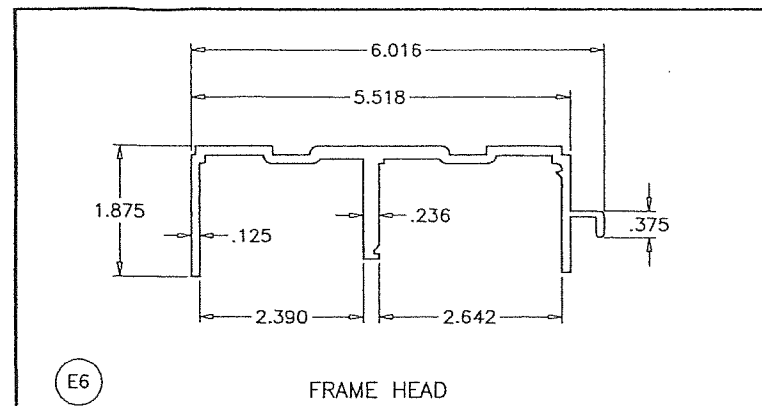
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W07-107RC

SERIES PH3400 ALUM SLIDING GLASS DOOR (L.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	04.04.08	REV. PER BCCO COMMENTS	
B	07.14.09	UPDATED FOR 2007 FBC	
C	09.25.09	REV. PER BCCO COMMENTS	
D	02.26.18	GENERAL REVISION	
E	03.08.21	UPDATED TO 2020 FBC	

date: 02-06-08  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W07-107**  
sheet 5 of 7



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 21-0405-21  
Expiration Date 7/3/25  
Jalal Farooq  
Owner/Manufacturer/Product Control

MAR 26 2021

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

COMP-ANL W07-107RC

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SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

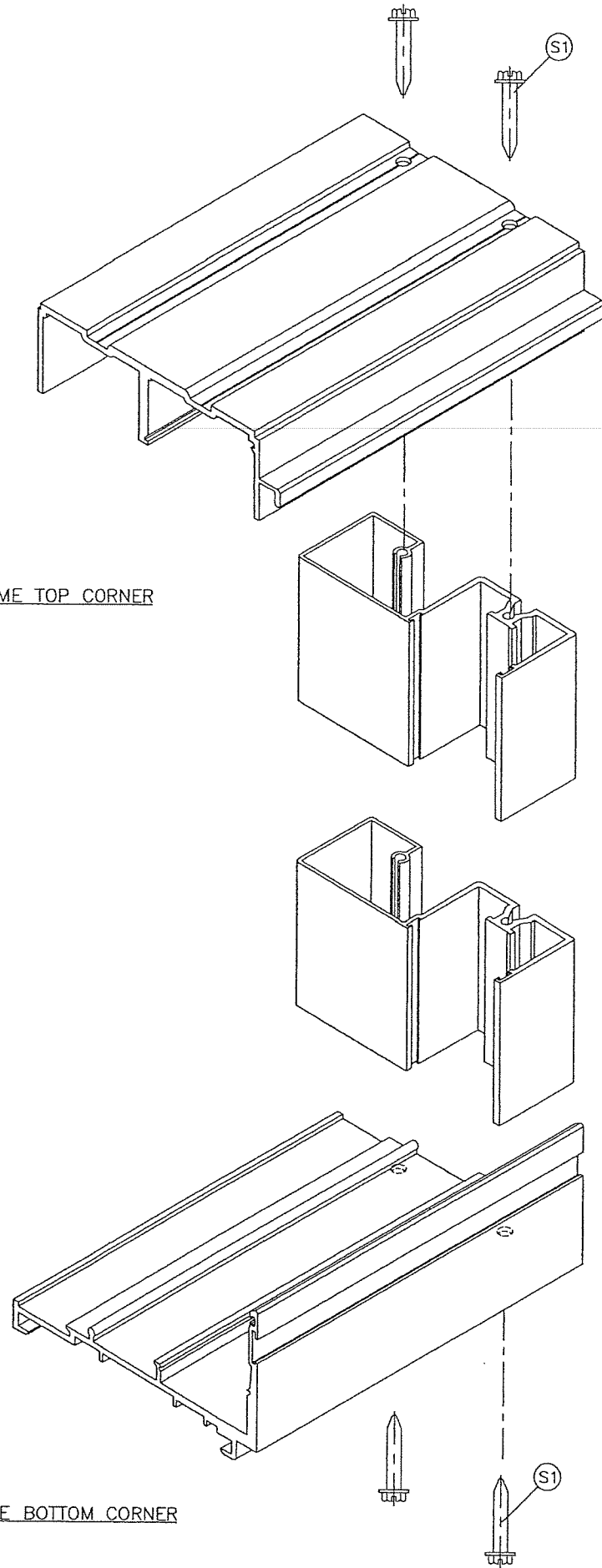
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D	02.26.18	GENERAL REVISION
E	03.08.21	UPDATED TO 2020 FBC

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chk. by:

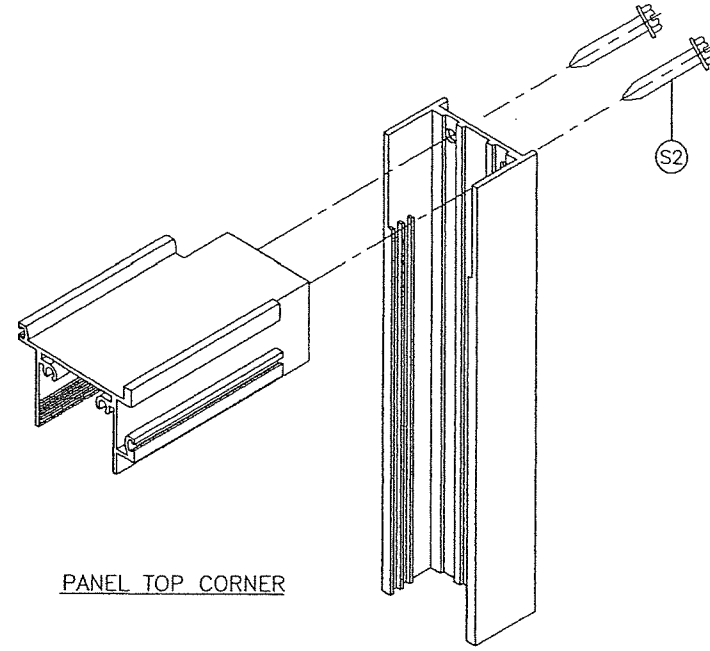
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**W07-107**  
sheet 6 of 7

FRAME TOP CORNER

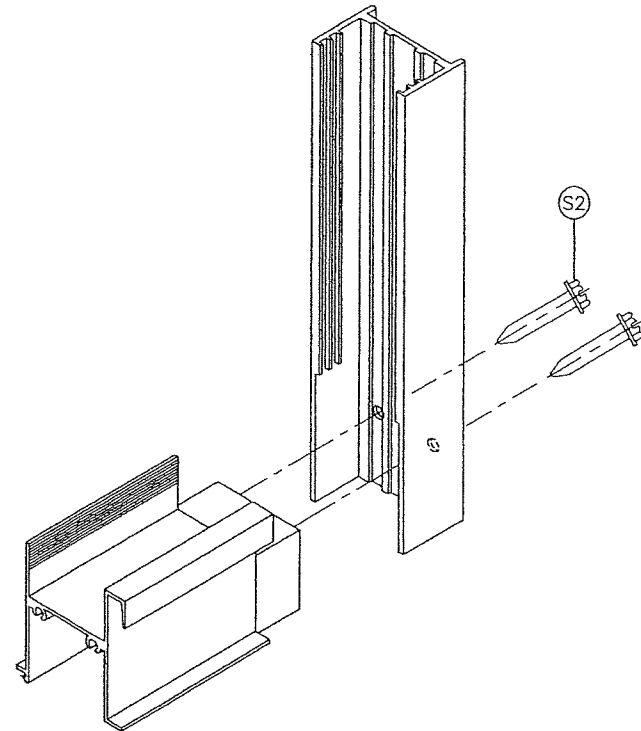


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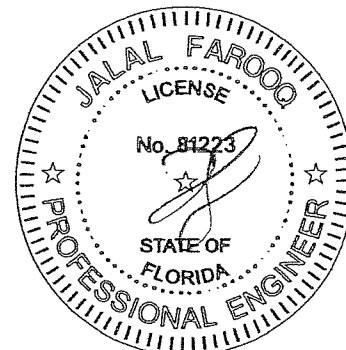
PANEL TOP CORNER



PANEL BOTTOM CORNER



PRODUCT REVISIONS  
as complying with the Florida  
Building Code  
Acceptance No. 21-0405.21  
Expiration Date 7/3/25  
by: Jalal Farooq  
for: Product Control



MAR 26 2021

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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COMP-ANL\W07-107RC

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SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)

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no.	date	by	description
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B	07.14.09		NO CHANGE THIS SHEET
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D	02.26.18		GENERAL REVISION
E	03.08.21		UPDATED TO 2020 FBC

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date: 02-06-08  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W07-107**  
sheet 7 of 7