



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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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 "5250" Aluminum Curtain Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **18-31D**, titled "Series-5250 Aluminum Curtain Wall System (L.M.I.)", sheets 1 through 10, 10.1, 11 and 12 through 23 of 23, dated 01/15/18, with revision A dated 05/25/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **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 and renews** NOA No. **12-0913.04** 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 **Manuel Perez, P.E.**



Handwritten signature and date: 7/11/18

NOA No. 18-0404.02
Expiration Date: July 19, 2023
Approval Date: July 19, 2018
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. 12-0913.04 & 18-0404.02)
2. Drawing No. **WW5250L**, titled "Series 5250 Aluminum Thermal Window Wall System Large Missile" sheets 01, 01A, 01B, 01C, 02, 03, 04, 06, 07, 07A, 07B, 08, 08A, 08B, 09, 10, 10A, 10B, 10C, 10D, 10E, 11, 11A, 11B, 11C, 12, 12A, 12B, 12C, 13, 13A, 13B, 13C, 13D, 13E, 13F, 14, 14A, 15, 15A, 15B, 15C, 16, 16A, 16B and 17 of 17, for a total of 46 sheets, dated 11/06/12, with revision #3 dated 12/13/12, prepared by manufacturer, signed and sealed by Leon Murray, P.E.

B. TESTS

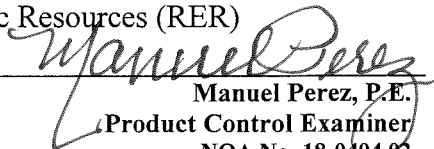
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 5250 thermal, twin span, aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7051**, dated 08/22/12, with revision 1 dated 11/01/12, signed and sealed by Marlin D. Brinson, P.E.
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) Large 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 a series 5250 thermal single span aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6889**, dated 08/09/12, with revision 1 dated 11/01/12, signed and sealed by Marlin D. Brinson, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis complying with FBC-2010, dated 09/27/12, 11/20/12, 12/05/12, 12/07/12, 12/12/12 and 12/16/12, prepared, signed and sealed by Leon Murray, P.E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0404.02
Expiration Date: July 19, 2023
Approval Date: July 19, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their “**DuPont SentryGlas® Interlayer**” dated 05/26/10, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, dated September 11, 2012, signed and sealed by Leon Murray, P.E.
2. Statement letter of no financial interest, dated September 11, 2012, signed and sealed by Leon Murray, P.E.
3. Dow Corning Corp. Construction Industry System Laboratory Report – Sealant Adhesion, dated July 30, 2008, certifying testing/evaluation of Dow Corning 795 Silicone Building Sealant, Dow Corning 983 Silicone Glazing & Curtainwall Adhesive/Sealant and application recommendations for this specific system, prepared by Kevin Dunphy, Dow Corning Field Specialist.
4. Dow Corning Corp. Construction Industry System Laboratory Report – Sealant Compatibility, dated August 06, 2008, certifying testing/evaluation of Dow Corning 795 Silicone Building Sealant, Dow Corning 983 Silicone Glazing & Curtainwall Adhesive/Sealant and application recommendations for this specific system, prepared by Kevin Dunphy, Dow Corning Field Specialist.
5. GE Momentive Sealant Adhesion and Compatibility Project Test Results – dated 11/30/12, certifying testing/evaluation of GE Momentive SSG4600 UltraGlaze Silicone Glazing & Curtainwall Adhesive/Sealant, prepared by Errol Bull, P.E., Technical Manager, GE Momentive.
6. Proposal No. **12-0479** issued by Product Control, dated May 31, 2012, signed by Manuel Perez, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0404.02

Expiration Date: July 19, 2023
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **18-31D**, titled "Series-5250 Aluminum Curtain Wall System (L.M.I.)", sheets 1 through 10, 10.1, 11 and 12 through 23 of 23, dated 01/15/18, with revision A dated 05/25/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 03/22/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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

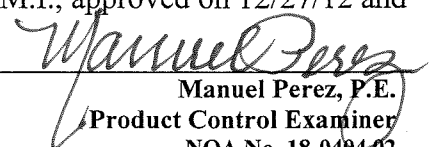
1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and of no financial interest, dated March 20, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Asset purchase agreement dated 02/09/15, signed by Mr. Massimo Valentini and Mr. Andres Chamorro.
3. Letter from owners of existing NOA stating that they have sold all assets to the applicant, that they no longer manufacture the product and relinquish their rights to the current NOA No. 12-0913.04, dated 12/27/12, signed by Mr. Massimo Valentini.
4. Distributor Agreement dated 02/07/17, between Energia Solar, S.A. (Colombia) and Tecnoglass, LLC (USA), signed by Ms. Carla Garcia, Int'l. Sales Mgr. and Ms. Evelyn Daes, General Manager, on behalf of their respective companies.

G. OTHERS

1. Notice of Acceptance No. **12-0913.04**, issued to Glasswall, LLC, for their Series "5250 Thermal" Aluminum Window Wall System – L.M.I., approved on 12/27/12 and expiring on 12/27/17.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0404.02

Expiration Date: July 19, 2023
Approval Date: July 19, 2018

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	CURTAIN WALL ELEVATION (SINGLE SPAN W/O HEAD RECEPTOR)
3	CURTAIN WALL ELEVATION (SINGLE SPANS WITH HEAD RECEPTOR)
4	CURTAIN WALL ELEVATION (DOUBLE SPANS W/O HEAD RECEPTOR)
5 & 6	GLASS CAPACITY CHARTS, GLAZING DETAILS
7 & 8	SINGLE & DOUBLE SPANS MULLION CAPACITY CHART
9 THRU 10.1	HEAD/SILL ANCHOR CAPACITY CHARTS
11 & 12	VERTICAL SECTION DETAILS
13 THRU 15	HORIZONTAL SECTION DETAILS
16 & 17	DEAD LOAD ANCHOR DETAILS
18 & 19	DEAD LOAD CORNER MULLION ANCHOR DETAILS
20 & 21	EXTRUSION DETAILS
22	BILL OF MATERIALS
23	CORNER CONSTRUCTION DETAILS

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

SEE CHARTS ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3

CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 8.
- STEP 4

USING HEAD/SILL ANCHOR DETAILS ON SHEETS 9 THRU 10.1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5

CHECK INTERMEDIATE ANCHOR CAPACITY FOR DOUBLE SPANS USING CHARTS OR DETAILS ON SHEETS 16 THRU 19.
- STEP 6

THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES-5250
ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

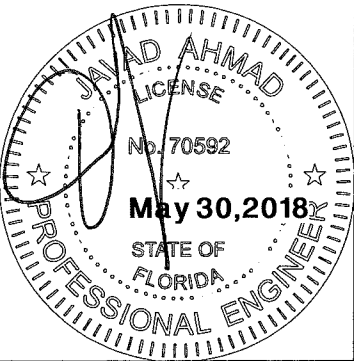
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Dade Product Control



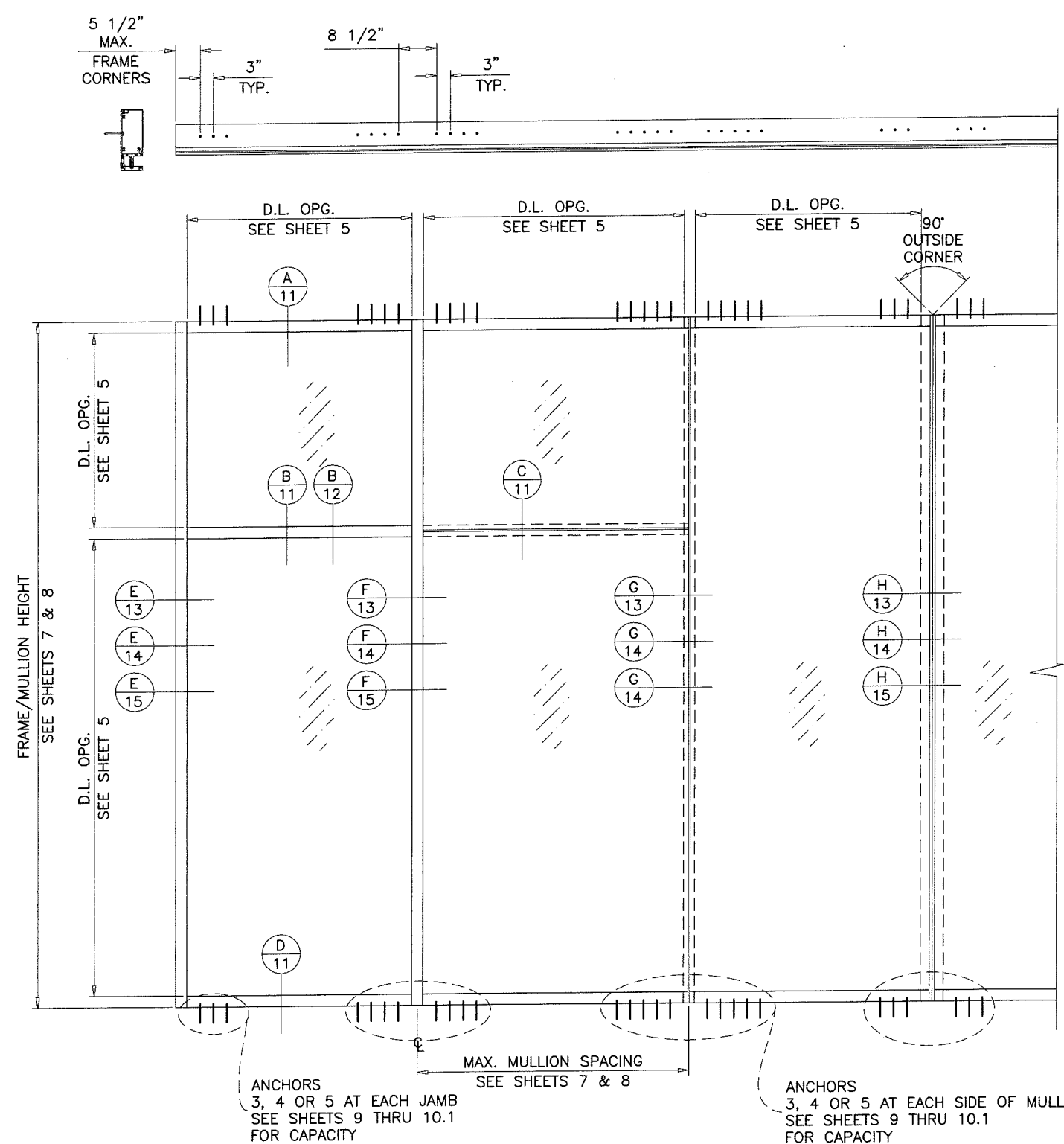
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

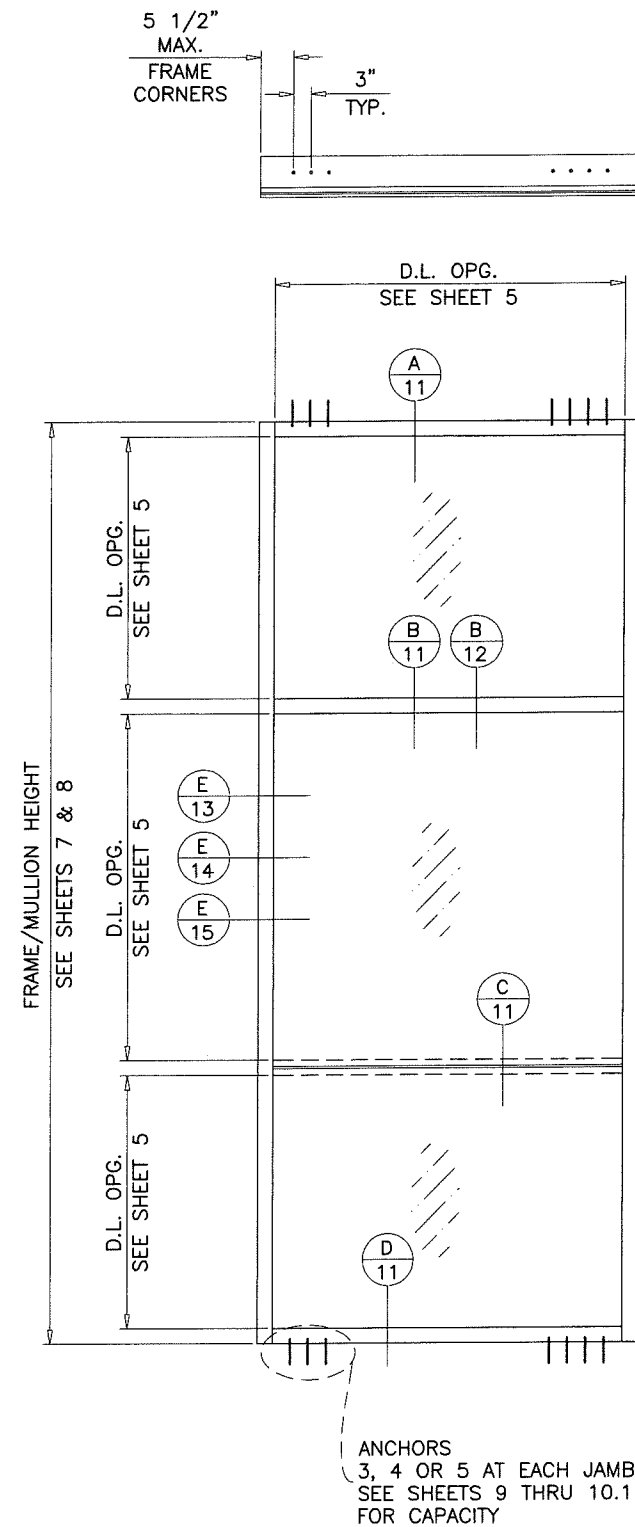
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by:	TARIQ			
chk. by:				
drawing no.	18-31D			
sheet	1 of 23			

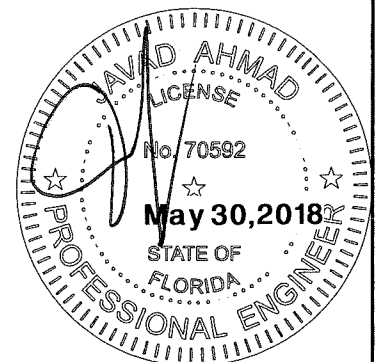
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TYPICAL ELEVATIONS
SINGLE SPAN WITHOUT HEAD RECEPTOR



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.62
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Dade Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

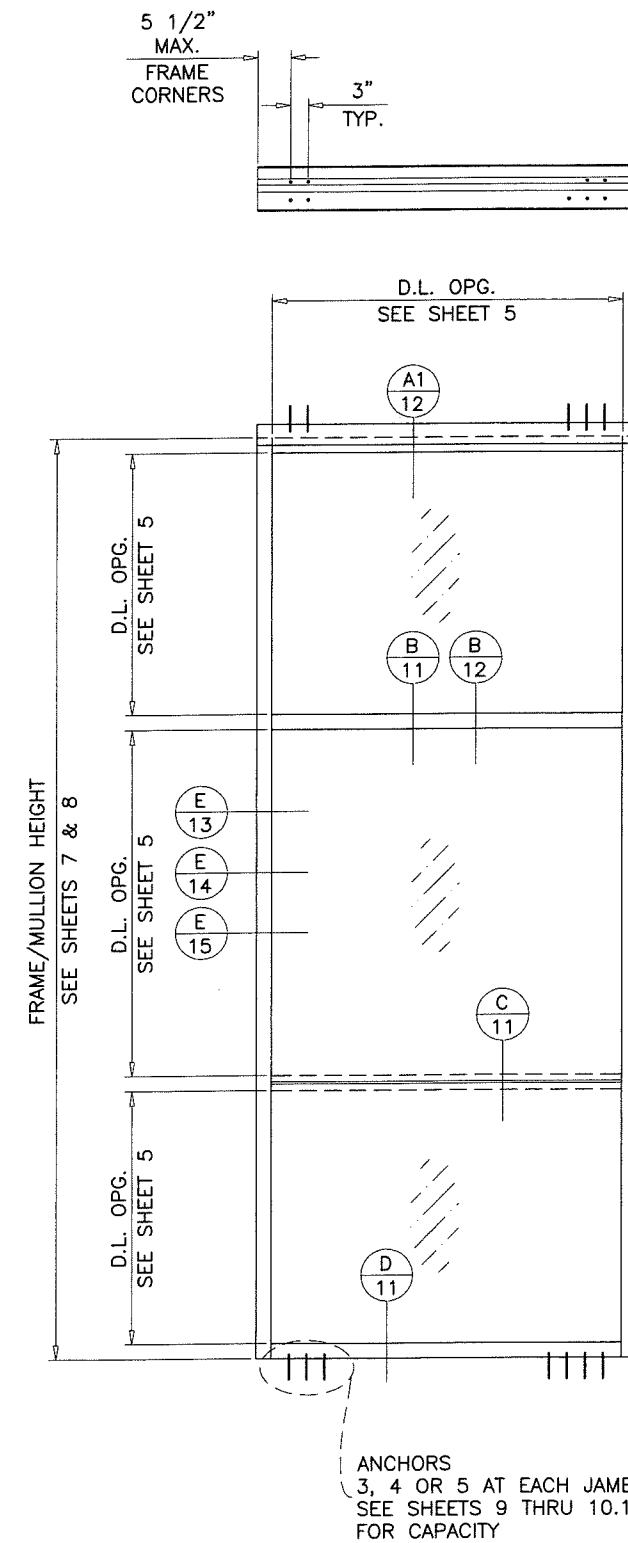
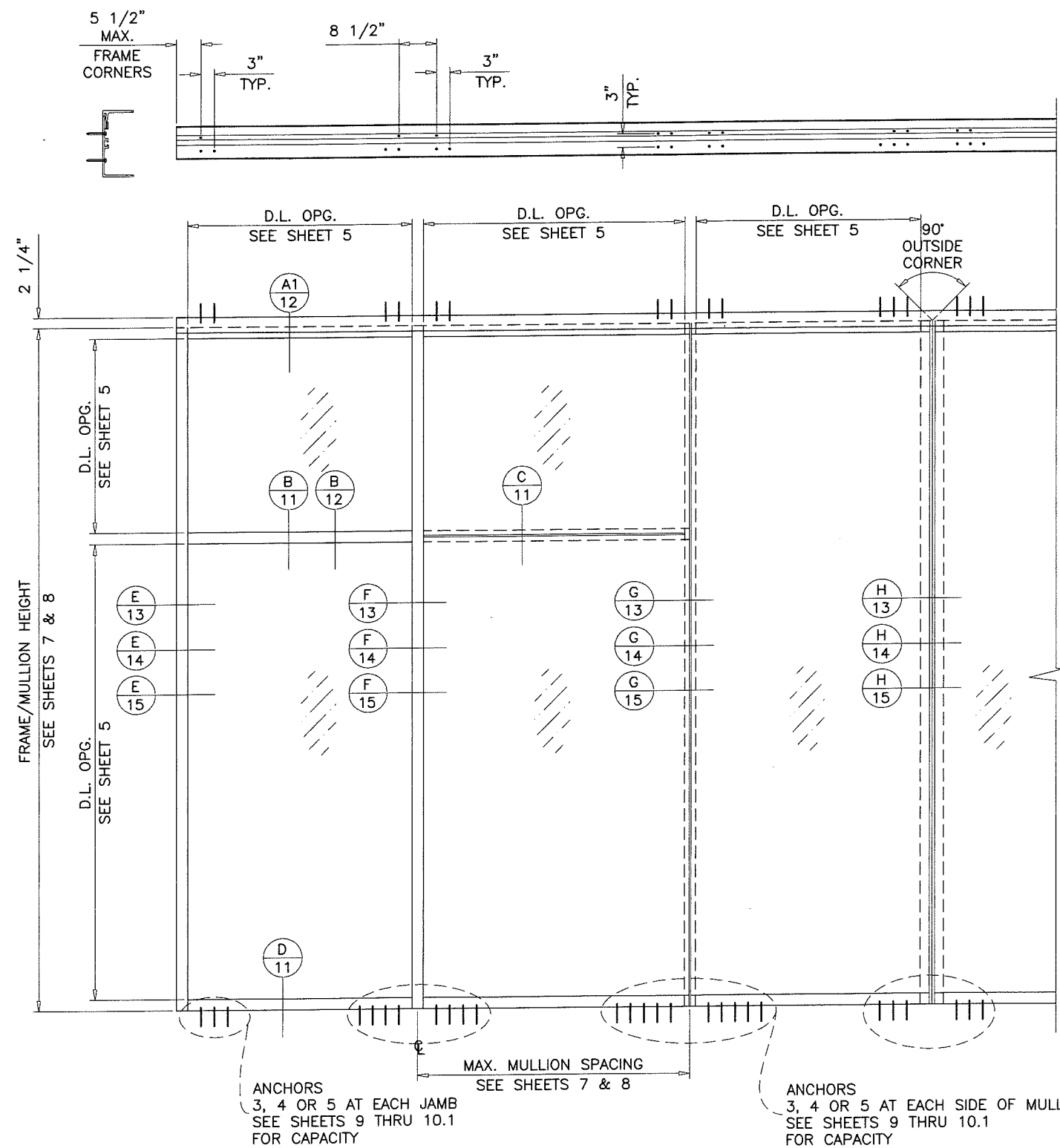
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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no.	date	by	description
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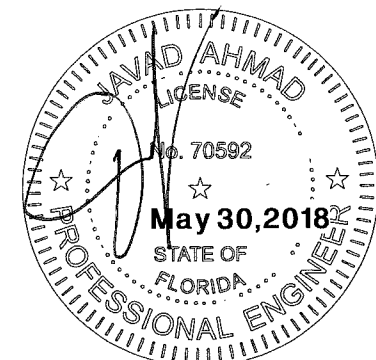
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chk. by:

drawing no.
18-31D
sheet 2 of 23



TYPICAL ELEVATIONS
SINGLE SPAN WITH HEAD RECEPTOR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-02
Expiration Date July 19, 2023
By *Muhammad Jero*
Miami/Dade Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP - ANL \ 18-31D-TG

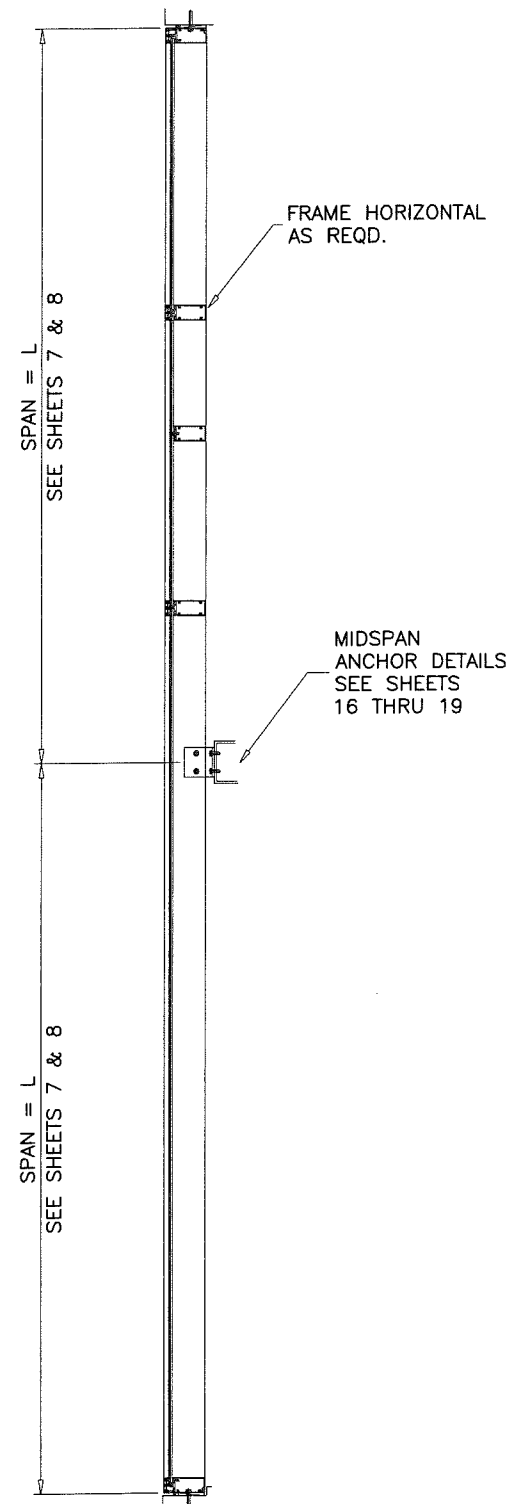
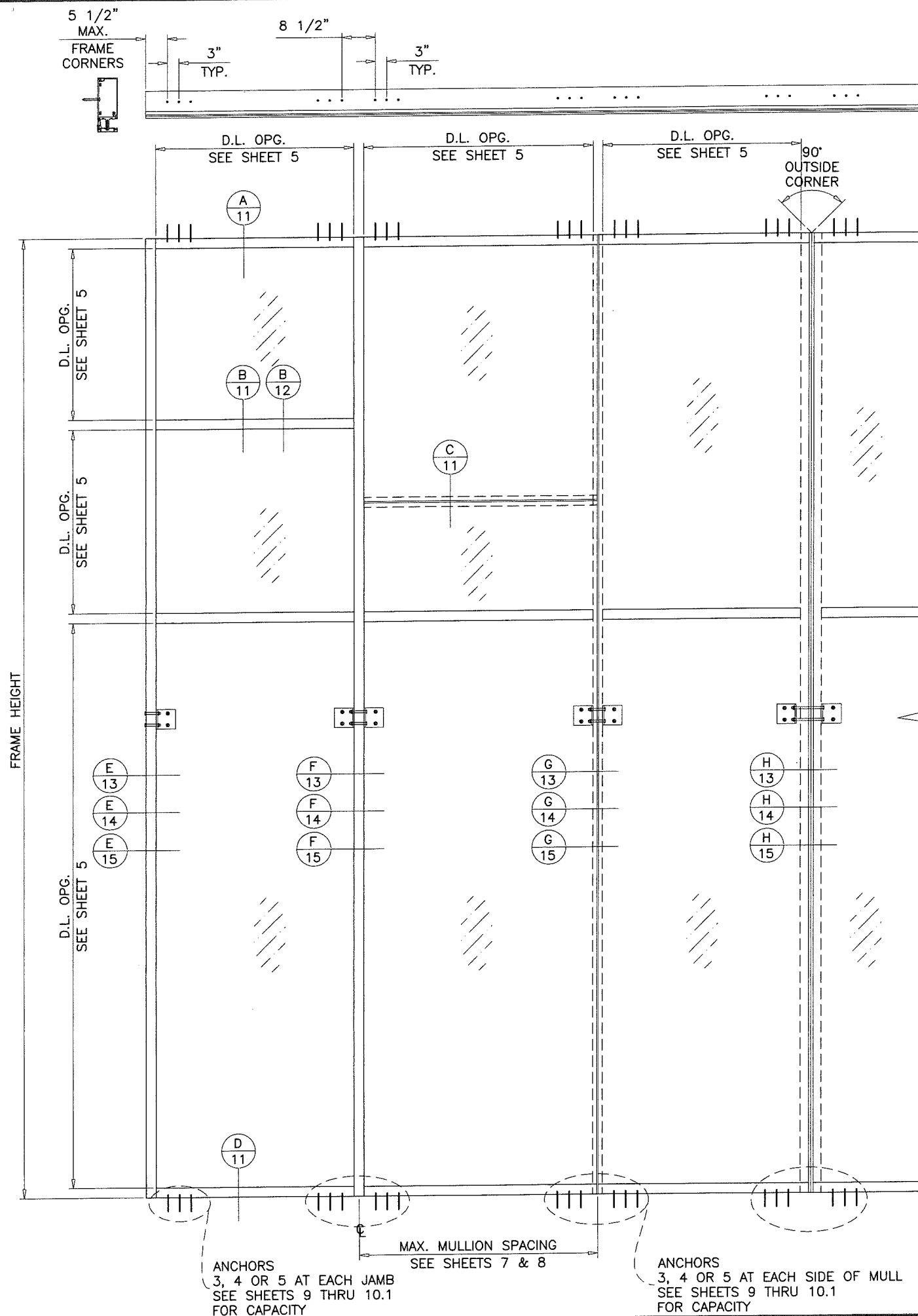
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

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

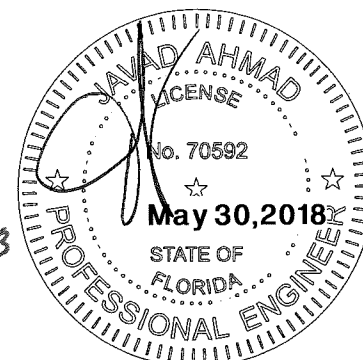
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drawing no.		sheet 3 of 23	



TYPICAL ELEVATION
DOUBLE SPAN WITHOUT HEAD RECEPTOR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By *Manuel Diaz*
Miami Dade 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\18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

revisions:		date:	01-15-18	scale:	3/8" = 1'-0"	dr. by:	TARIQ	chk. by:
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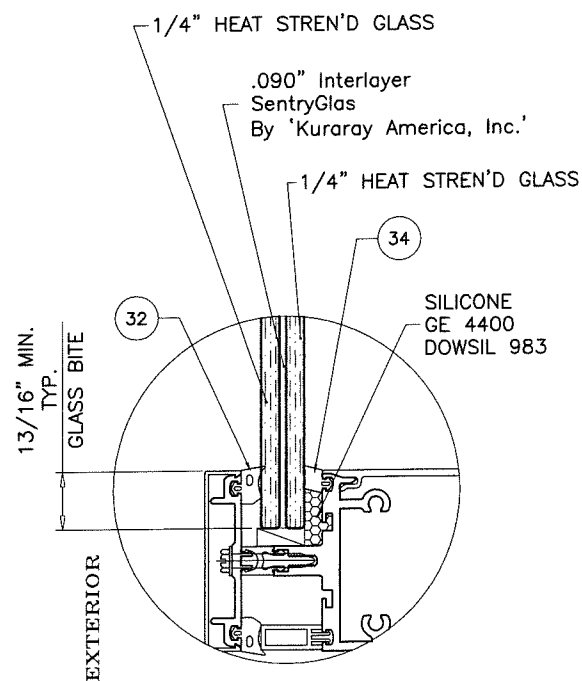
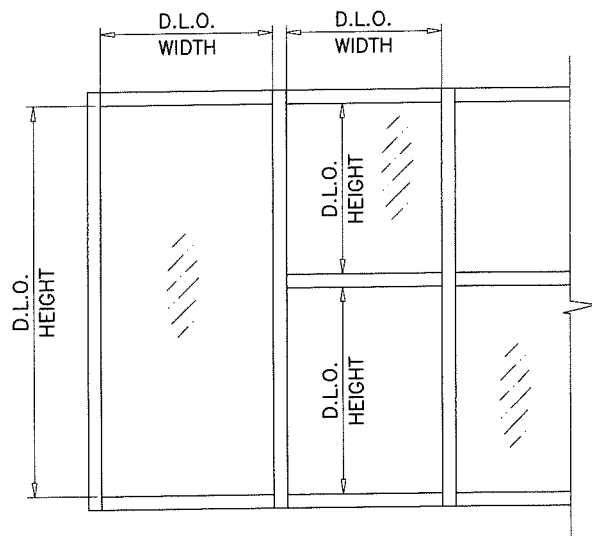
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18-31D

sheet 4 of 23

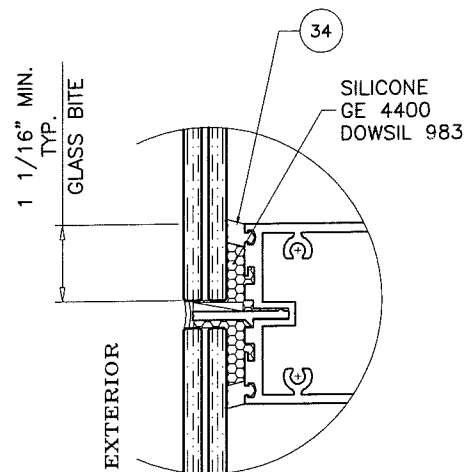
GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'A1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27-1/2"	79"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	130.0
55-1/2"		121.0	130.0
57-1/2"		117.0	130.0
63-1/2"		106.4	118.2
69-1/2"	85"	97.5	104.7
75-1/2"		90.0	80.0
81-1/2"		83.6	-
27-1/2"		130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	130.0
55-1/2"		121.0	130.0
57-1/2"		117.0	130.0
63-1/2"		106.4	114.2
69-1/2"		97.5	86.7
75-1/2"		90.0	-
27-1/2"	91"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	130.0
55-1/2"		121.0	130.0
57-1/2"		117.0	130.0
63-1/2"		106.4	94.5
69-1/2"		97.5	86.7
27-1/2"	97"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	130.0
55-1/2"		121.0	130.0
57-1/2"		117.0	125.7
63-1/2"		106.4	94.5
27-1/2"	103"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		121.0	130.0
55-1/2"		117.0	130.0
57-1/2"		106.4	104.0
27-1/2"	109"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	115.6
55-1/2"		121.0	107.6
57-1/2"		117.0	104.0

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'A1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27-1/2"	115"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	115.6
55-1/2"	121"	121.0	-
27-1/2"		130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	115.6
27-1/2"	127"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		130.0	130.0
51-1/2"		130.0	-
27-1/2"	133"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		124.6	128.4
51-1/2"		130.0	-
27-1/2"	139"	130.0	130.0
33-1/2"		130.0	130.0
39-1/2"		130.0	130.0
45-1/2"		121.6	125.4

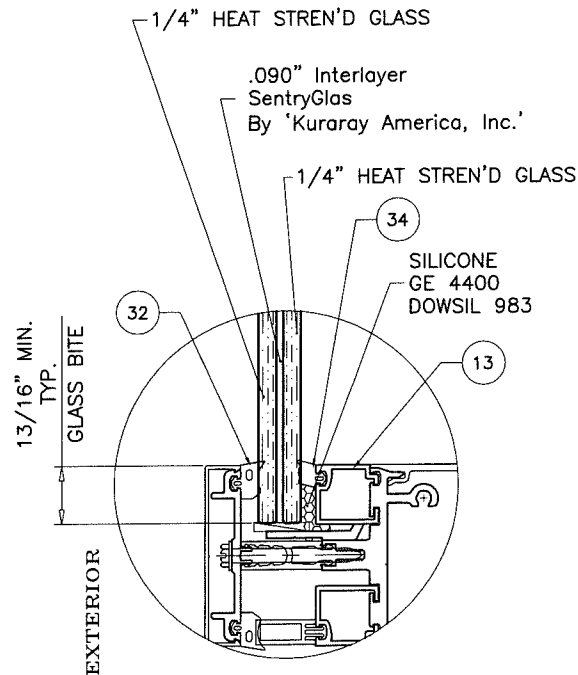
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



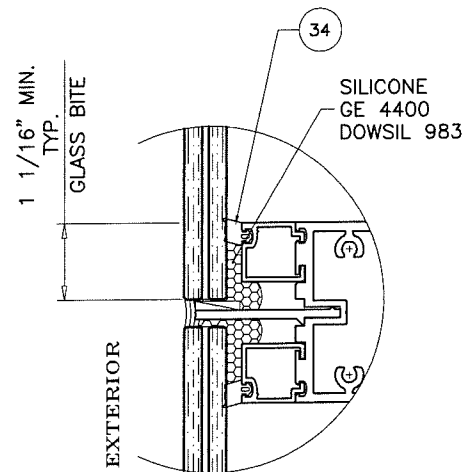
GLASS TYPE 'A'
9/16" LAM. GLASS



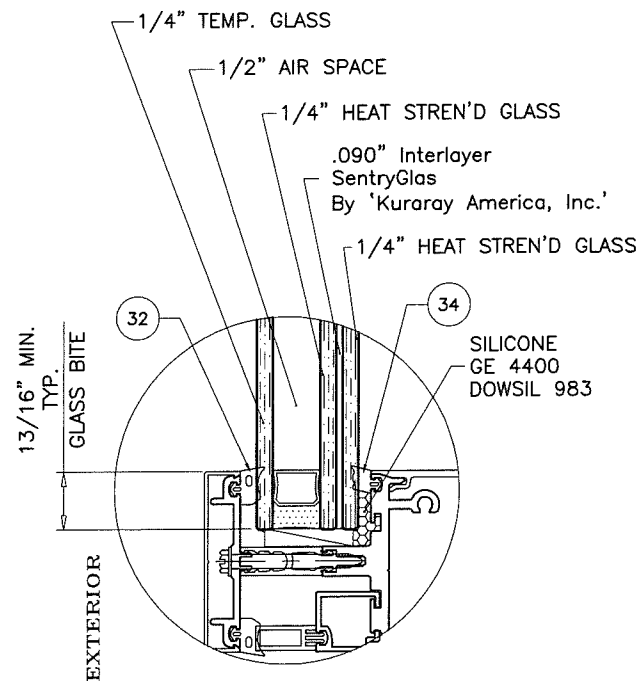
GLASS TYPE 'A'
AT SSG HORIZONTAL



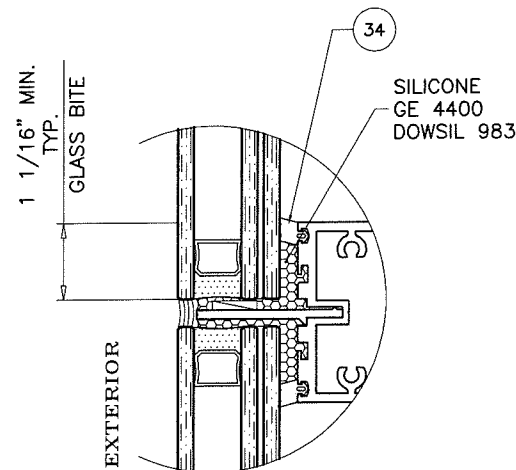
GLASS TYPE 'A'
9/16" LAM. GLASS



GLASS TYPE 'A'
AT SSG HORIZONTAL



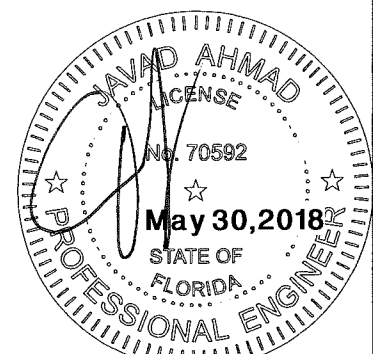
GLASS TYPE 'A1'
1-5/16" INSUL. LAM. GLASS



GLASS TYPE 'A1'
AT SSG HORIZONTAL

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By *[Signature]*
Miami Dade 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 18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

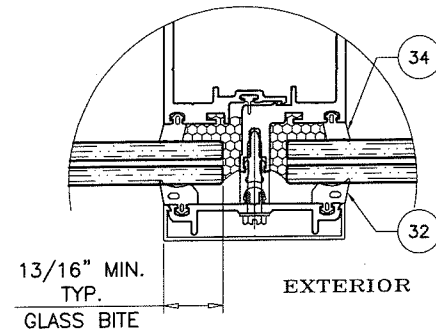
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

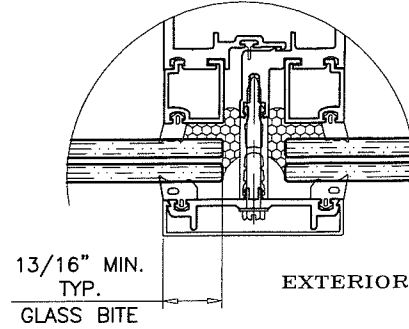
no	date	by	description
A	05.25.18		REV. PER COMMENTS

date: 01-15-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

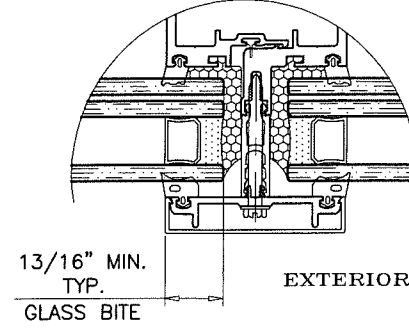
drawing no.
18-31D
sheet 5 of 23



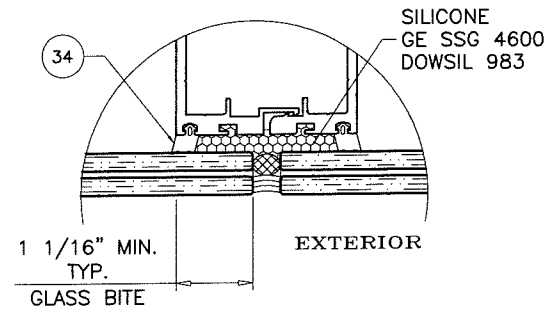
GLASS TYPE 'A'
AT CAPTURED JAMB/MULLION



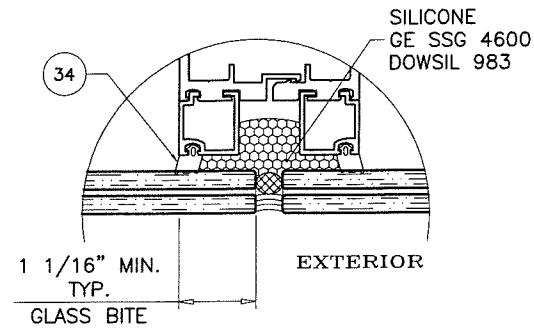
GLASS TYPE 'A'
AT CAPTURED JAMB/MULLION



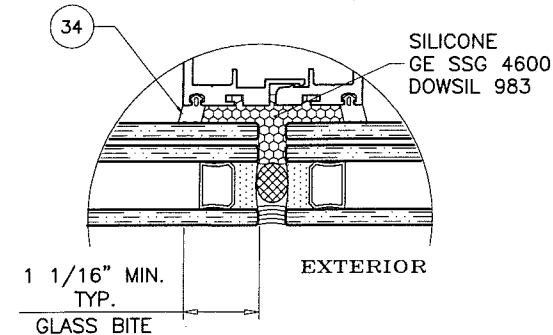
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AT CAPTURED JAMB/MULLION



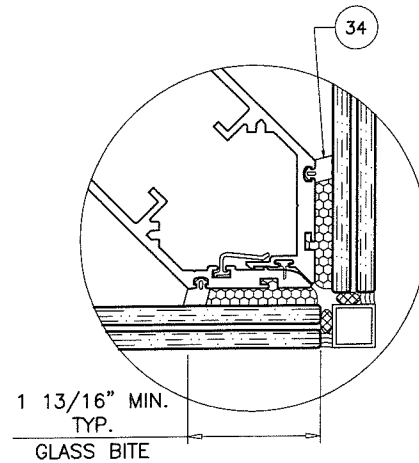
GLASS TYPE 'A'
AT SSG MULLION



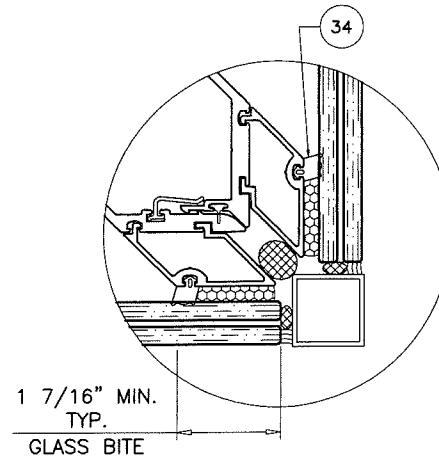
GLASS TYPE 'A'
AT SSG MULLION



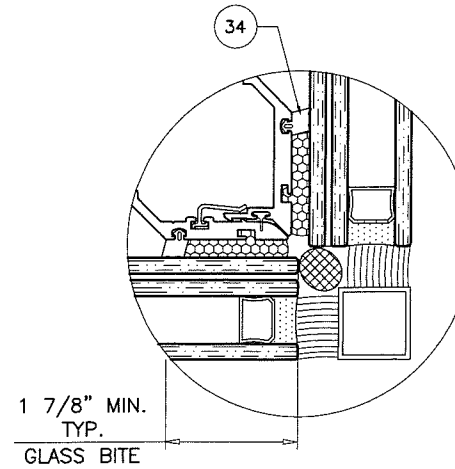
GLASS TYPE 'A1'
AT SSG MULLION



GLASS TYPE 'A'
AT SSG CORNER MULLION

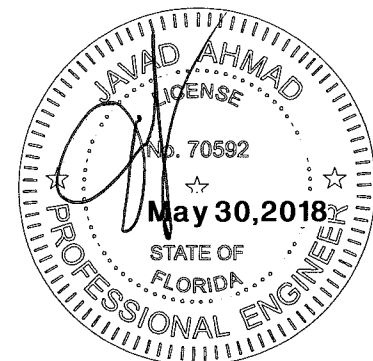


GLASS TYPE 'A'
AT SSG CORNER MULLION



GLASS TYPE 'A1'
AT SSG CORNER MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Trade Product Control



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

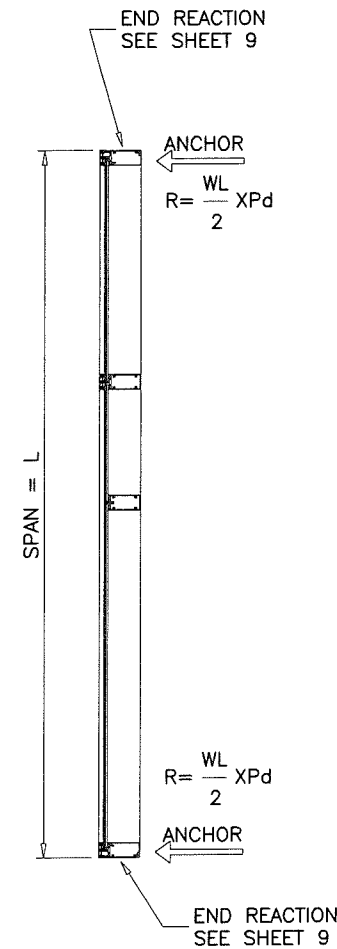
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		by	description
no.	date		
A	05.25.18	REV. PER	COMMENTS

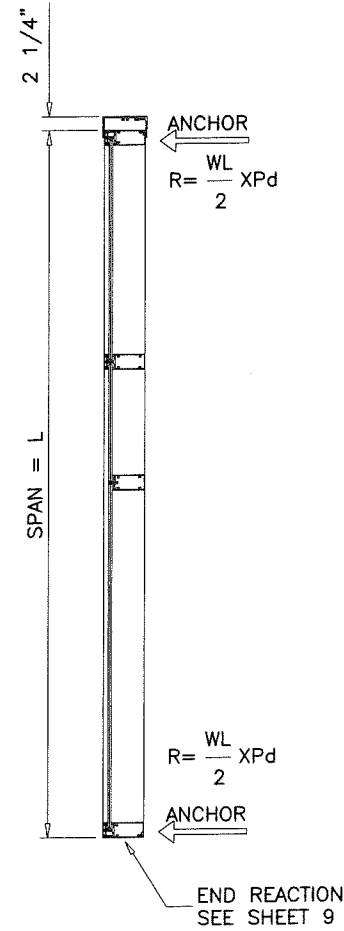
date: 01-15-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-31D
sheet 6 of 23

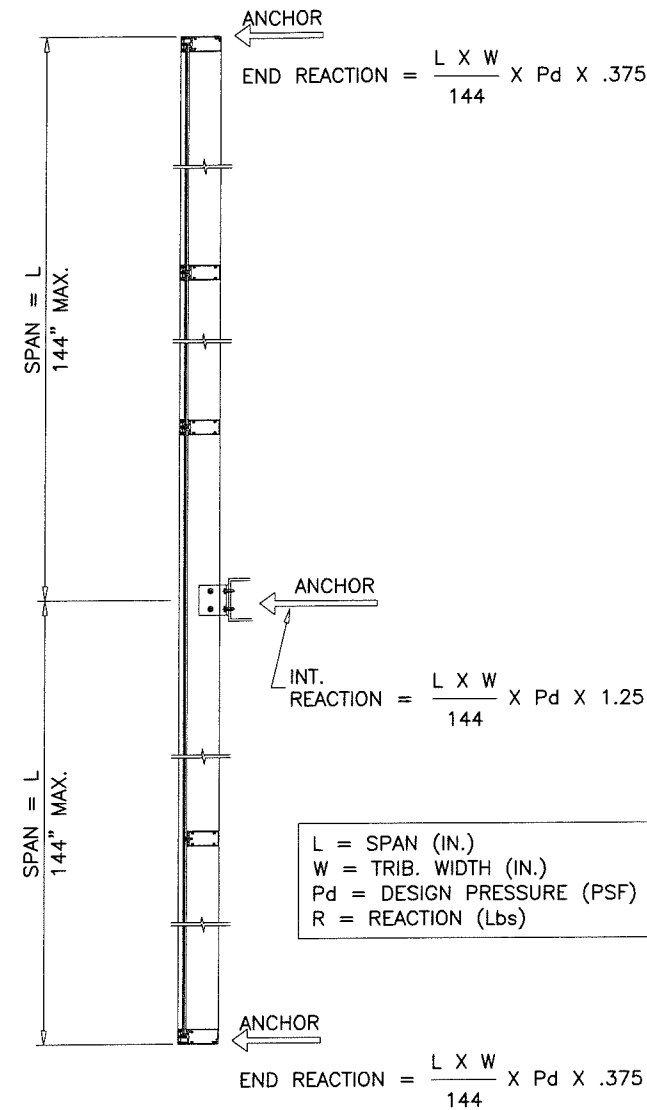
COMP-ANL\18-31D-TG



SINGLE SPAN
WITHOUT RECEPTOR



SINGLE SPAN
WITH RECEPTOR



DOUBLE SPANS
WITHOUT RECEPTOR

SEE CHART ON SHEET 8 FOR MULLION DESIGN LOAD CAPACITY.

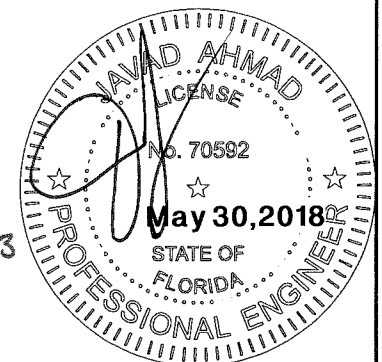
JAMB TYPES 'J1', 'J2', 'J3' AND MULLION TYPES 'M1', 'M2' & 'M3' APPROVED FOR SINGLE SPANS INSTALLATIONS ONLY.

JAMB TYPE 'J4' AND MULLION TYPES 'M4' & 'MC' APPROVED FOR SINGLE SPANS AND DOUBLE SPANS INSTALLATIONS.

INTERMEDIATE HORIZONTAL IS AN INTEGRAL PART OF SINGLE OR DOUBLE SPANS.

UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS
UNDER SEPARATE APPROVAL TO BE REVIEWED BY BUILDING OFFICIAL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Trade Product Control

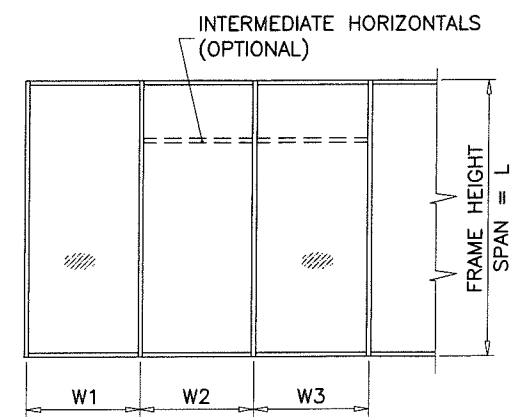


AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		COMP-ANL\18-31D-TG	
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)		TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
date: 01-15-18	scale: -	dr. by: TARIQ	chk. by:
drawing no. 18-31D	sheet 7 of 23		

JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J2' MULL 'M2'	JAMB 'J3' MULL 'M3'	JAMB 'J4' MULL 'M4'	JAMB 'J4' MULL 'MC'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	84"	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0
54"		130.0	129.6	130.0	130.0	130.0
58"		124.0	120.6	130.0	130.0	130.0
60"		119.9	116.6	130.0	130.0	130.0
66"		109.0	106.0	130.0	130.0	130.0
72"	90"	99.9	97.2	130.0	130.0	130.0
78"		92.2	89.7	123.6	130.0	130.0
84"		85.6	83.3	114.8	130.0	130.0
30"		130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0
48"		129.2	127.0	130.0	130.0	130.0
54"		114.8	112.9	130.0	130.0	130.0
58"		106.9	105.1	130.0	130.0	130.0
60"	96"	103.4	101.6	130.0	130.0	130.0
66"		94.0	92.3	127.2	130.0	130.0
72"		86.1	84.6	116.6	130.0	130.0
78"		79.5	78.1	107.7	122.4	130.0
30"		130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		128.5	127.5	130.0	130.0	130.0
48"		112.4	111.6	130.0	130.0	130.0
54"	102"	99.9	99.2	130.0	130.0	130.0
58"		93.0	92.4	127.3	130.0	130.0
60"		89.9	89.3	123.0	130.0	130.0
66"		-	81.2	111.8	127.2	130.0
72"		-	74.4	102.5	116.6	130.0
30"		-	130.0	130.0	130.0	130.0
36"		-	130.0	130.0	130.0	130.0
42"		-	113.0	130.0	130.0	130.0
48"	108"	-	98.9	130.0	130.0	130.0
54"		-	87.9	121.1	130.0	130.0
58"		-	81.8	112.7	128.2	130.0
60"		-	79.1	109.0	123.9	130.0
66"		-	71.9	99.1	112.7	130.0
30"		-	130.0	130.0	130.0	130.0
36"		-	117.6	130.0	130.0	130.0
42"		-	100.8	130.0	130.0	130.0
48"	114"	-	88.2	121.5	130.0	130.0
54"		-	78.4	108.0	122.8	130.0
58"		-	73.0	100.6	114.3	130.0
60"		-	-	97.2	110.5	130.0
66"		-	-	88.4	100.5	130.0
30"		-	-	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0
42"		-	-	124.6	130.0	130.0
48"	120"	-	-	109.0	124.0	130.0
54"		-	-	96.9	110.2	130.0
58"		-	-	90.2	102.6	130.0
60"		-	-	87.2	99.2	130.0
30"		-	-	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0
42"		-	-	112.5	127.9	130.0
48"		-	-	98.4	111.9	130.0
54"	120"	-	-	87.5	99.5	130.0
58"		-	-	81.4	92.6	130.0

JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J2' MULL 'M2'	JAMB 'J3' MULL 'M3'	JAMB 'J4' MULL 'M4'	JAMB 'J4' MULL 'MC'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	-	130.0	130.0	130.0
36"		-	-	119.0	130.0	130.0
42"		-	-	102.0	116.0	130.0
48"		-	-	89.3	101.5	130.0
54"		-	-	79.3	90.2	130.0
30"	132"	-	-	130.0	130.0	130.0
36"		-	-	108.4	123.3	130.0
42"		-	-	93.0	105.7	130.0
48"		-	-	81.3	92.5	130.0
54"		-	-	72.3	82.2	130.0
30"	138"	-	-	-	130.0	130.0
36"		-	-	-	112.8	130.0
42"		-	-	-	96.7	130.0
48"		-	-	-	84.6	130.0
30"	144"	-	-	-	124.3	130.0
36"		-	-	-	103.6	130.0
42"		-	-	-	88.8	130.0
48"		-	-	-	77.7	130.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

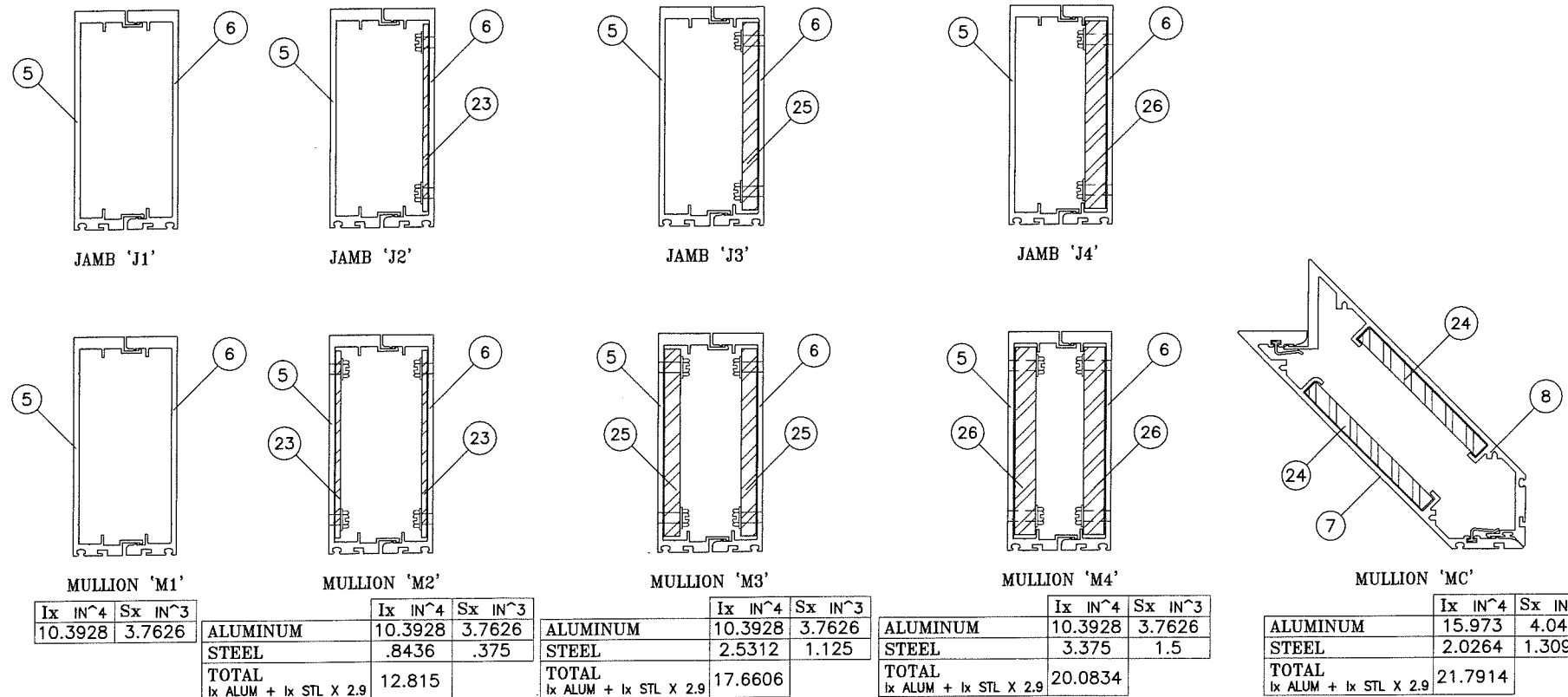


$$\text{WIDTH (W)} = W1$$

AT FRAME JAMB

$$\text{WIDTH (W)} = \frac{W2 + W3}{2}$$

AT FRAME MULLION



JAMB TYPES 'J1', 'J2', 'J3' AND MULLION TYPES 'M1', 'M2' & 'M3' APPROVED FOR SINGLE SPANS INSTALLATIONS ONLY.

JAMB TYPE 'J4' AND MULLION TYPES 'M4' & 'MC' APPROVED FOR SINGLE SPANS AND DOUBLE SPANS INSTALLATIONS.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 18-0404.02 Expiration Date July 19, 2023

By *Manuel Perez* Miami Dade Product Control

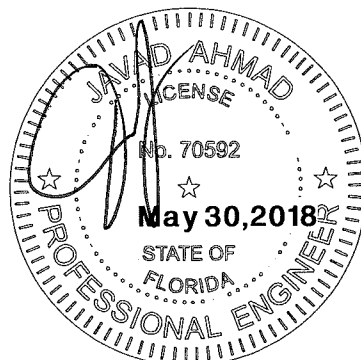


CHART ABOVE SHOWS FRAME HEIGHTS FOR CURTAIN WALL WITHOUT HEAD RECEPTOR. FOR CURTAIN WALL WITH HEAD RECEPTORS OVERALL HEIGHT = FRAME HT. FROM CHART + 2-1/4".

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
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revisions:	no	date	description	by	rev.	per	comments
date:	01-15-18						
scale:	-						
dr. by:	TARIQ						
chk. by:							
drawing no.	18-31D						
sheet	8 of 23						

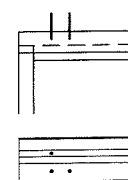
HEAD/SILL ANCHOR LOAD CAPACITY - PSF (HEAD W/O RECEPTOR) EXT.(+) & INT.(-)																		
NOMINAL DIMS.		ANCHORS TYPE 'A'									ANCHORS TYPE 'B'							
		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE			1/4" SHIM		3/8" SHIM SPACE			1/2" SHIM SPACE		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	A3	A4	A5	A3	A4	A5	B3	B4	B3	B4	B5	B3	B4	B5
30"	84"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	127.7	130.0	130.0	100.6	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	113.4	130.0	130.0	130.0	130.0	106.5	130.0	130.0	83.8	111.8	130.0
42"		130.0	130.0	130.0	124.2	130.0	130.0	97.2	129.6	130.0	130.0	130.0	91.2	121.7	130.0	71.9	95.8	119.8
48"		127.3	130.0	130.0	108.6	130.0	130.0	85.1	113.4	130.0	130.0	130.0	79.8	106.5	130.0	62.9	83.8	104.8
54"		113.1	130.0	130.0	96.6	128.8	130.0	75.6	100.8	126.0	130.0	130.0	71.0	94.6	118.3	55.9	74.5	93.1
58"		105.3	130.0	130.0	89.9	119.9	130.0	70.4	93.9	117.3	130.0	130.0	66.1	88.1	110.1	52.0	69.4	86.7
60"		101.8	130.0	130.0	86.9	115.9	130.0	68.1	90.7	113.4	130.0	130.0	63.9	85.2	106.5	50.3	67.1	83.8
66"		92.6	123.4	130.0	79.0	105.4	130.0	61.9	82.5	103.1	121.9	130.0	58.1	77.4	96.8	45.7	61.0	76.2
72"		84.9	113.1	130.0	72.4	96.6	120.7	56.7	75.6	94.5	111.7	130.0	53.2	71.0	88.7	41.9	55.9	69.9
78"	78.3	104.4	130.0	66.9	89.1	111.4	52.4	69.8	87.3	103.1	130.0	49.1	65.5	81.9	38.7	51.6	64.5	
84"	72.7	97.0	121.2	62.1	82.8	103.5	48.6	64.8	81.0	95.8	127.7	45.6	60.8	76.0	35.9	47.9	59.9	
30"	90"	130.0	130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	119.2	130.0	130.0	93.9	125.2	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	105.9	130.0	130.0	130.0	130.0	99.4	130.0	130.0	78.2	104.3	130.0
42"		130.0	130.0	130.0	115.9	130.0	130.0	90.7	121.0	130.0	130.0	130.0	85.2	113.6	130.0	67.1	89.4	111.8
48"		118.8	130.0	130.0	101.4	130.0	130.0	79.4	105.9	130.0	130.0	130.0	74.5	99.4	124.2	58.7	78.2	97.8
54"		105.6	130.0	130.0	90.1	120.2	130.0	70.6	94.1	117.6	130.0	130.0	66.2	88.3	110.4	52.2	69.5	86.9
58"		98.3	130.0	130.0	83.9	111.9	130.0	65.7	87.6	109.5	129.4	130.0	61.7	82.2	102.8	48.6	64.8	80.9
60"		95.0	126.7	130.0	81.1	108.2	130.0	63.5	84.7	105.9	125.1	130.0	59.6	79.5	99.4	46.9	62.6	78.2
66"		86.4	115.2	130.0	73.7	98.3	122.9	57.7	77.0	96.2	113.7	130.0	54.2	72.3	90.3	42.7	56.9	71.1
72"		79.2	105.6	130.0	67.6	90.1	112.7	52.9	70.6	88.2	104.3	130.0	49.7	66.2	82.8	39.1	52.2	65.2
78"	73.1	97.5	121.8	62.4	83.2	104.0	48.9	65.1	81.4	96.2	128.3	45.9	61.1	76.4	36.1	48.1	60.2	
30"	96"	130.0	130.0	130.0	130.0	130.0	130.0	119.1	130.0	130.0	130.0	130.0	111.8	130.0	130.0	88.0	117.4	130.0
36"		130.0	130.0	130.0	126.8	130.0	130.0	99.3	130.0	130.0	130.0	130.0	93.2	124.2	130.0	73.4	97.8	122.3
42"		127.3	130.0	130.0	108.6	130.0	130.0	85.1	113.4	130.0	130.0	130.0	79.8	106.5	130.0	62.9	83.8	104.8
48"		111.4	130.0	130.0	95.1	126.8	130.0	74.4	99.3	124.1	130.0	130.0	69.9	93.2	116.4	55.0	73.4	91.7
54"		99.0	130.0	130.0	84.5	112.7	130.0	66.2	88.2	110.3	130.0	130.0	62.1	82.8	103.5	48.9	65.2	81.5
58"		92.2	122.9	130.0	78.7	104.9	130.0	61.6	82.1	102.7	121.3	130.0	57.8	77.1	96.4	45.5	60.7	75.9
60"		89.1	118.8	130.0	76.1	101.4	126.8	59.6	79.4	99.3	117.3	130.0	55.9	74.5	93.2	44.0	58.7	73.4
66"		81.0	108.0	130.0	69.1	92.2	115.2	54.1	72.2	90.2	106.6	130.0	50.8	67.7	84.7	40.0	53.3	66.7
72"		74.3	99.0	123.8	63.4	84.5	105.6	49.6	66.2	82.7	97.8	130.0	46.4	62.1	77.6	36.7	48.9	61.1
30"	102"	130.0	130.0	130.0	130.0	130.0	130.0	112.1	130.0	130.0	130.0	130.0	105.2	130.0	130.0	82.8	110.5	130.0
36"		130.0	130.0	130.0	119.3	130.0	130.0	93.4	124.5	130.0	130.0	130.0	87.7	116.9	130.0	69.0	92.0	115.1
42"		119.8	130.0	130.0	102.3	130.0	130.0	80.1	106.8	130.0	130.0	130.0	75.1	100.2	125.2	59.2	78.9	98.6
48"		104.8	130.0	130.0	89.5	119.3	130.0	70.1	93.4	116.8	130.0	130.0	65.8	87.7	109.6	51.8	69.0	86.3
54"		93.2	124.2	130.0	79.5	106.0	130.0	62.3	83.0	103.8	122.7	130.0	58.4	77.9	97.4	46.0	61.4	76.7
58"		86.8	115.7	130.0	74.0	98.7	123.4	58.0	77.3	96.6	114.2	130.0	54.4	72.6	90.7	42.8	57.1	71.4
60"		83.9	111.8	130.0	71.6	95.4	119.3	56.0	74.7	93.4	110.4	130.0	52.6	70.1	87.7	41.4	55.2	69.0
66"		76.2	101.6	127.1	65.1	86.8	108.4	51.0	67.9	84.9	100.4	130.0	47.8	63.8	79.7	37.7	50.2	62.8
30"	108"	130.0	130.0	130.0	130.0	130.0	130.0	105.9	130.0	130.0	130.0	130.0	99.4	130.0	130.0	78.2	104.3	130.0
36"		130.0	130.0	130.0	112.7	130.0	130.0	88.2	117.6	130.0	130.0	130.0	82.8	110.4	130.0	65.2	86.9	108.7
42"		113.1	130.0	130.0	96.6	128.8	130.0	75.6	100.8	126.0	130.0	130.0	71.0	94.6	118.3	55.9	74.5	93.1
48"		99.0	130.0	130.0	84.5	112.7	130.0	66.2	88.2	110.3	130.0	130.0	62.1	82.8	103.5	48.9	65.2	81.5
54"		88.0	117.3	130.0	75.1	100.1	125.2	58.8	78.4	98.0	115.9	130.0	55.2	73.6	92.0	43.5	58.0	72.4
58"		81.9	109.2	130.0	69.9	93.2	116.6	54.8	73.0	91.3	107.9	130.0	51.4	68.5	85.7	40.5	54.0	67.4
60"		79.2	105.6	130.0	67.6	90.1	112.7	52.9	70.6	88.2	104.3	130.0	49.7	66.2	82.8	39.1	52.2	65.2
66"		72.0	96.0	120.0	61.5	81.9	102.4	48.1	64.2	80.2	94.8	126.4	45.2	60.2	75.3	35.6	47.4	59.3
30"	114"	130.0	130.0	130.0	128.1	130.0	130.0	100.3	130.0	130.0	130.0	130.0	94.1	125.5	130.0	74.1	98.8	123.5
36"		125.1	130.0	130.0	106.7	130.0	130.0	83.6	111.4	130.0	130.0	130.0	78.4	104.6	130.0	61.8	82.4	102.9
42"		107.2	130.0	130.0	91.5	122.0	130.0	71.6	95.5	119.4	130.0	130.0	67.2	89.6	112.1	52.9	70.6	88.2
48"		93.8	125.1	130.0	80.1	106.7	130.0	62.7	83.6	104.5	123.5	130.0	58.8	78.4	98.1	46.3	61.8	77.2
54"		83.4	111.2	130.0	71.2	94.9	118.6	55.7	74.3	92.9	109.8	130.0	52.3	69.7	87.2	41.2	54.9	68.6
58"		77.6	103.5	129.4	66.3	88.3	110.4	51.9	69.2	86.5	102.2	130.0	48.7	64.9	81.1	38.3	51.1	63.9
60"		75.0	100.0	125.1	64.0	85.4	106.7	50.1	66.9	83.6	98.8	130.0	47.1	62.8	78.4	37.1	49.4	61.8
66"		75.0	100.0	125.1	64.0	85.4	106.7	50.1	66.9	83.6	98.8	130.0	47.1	62.8	78.4	37.1	49.4	61.8
30"	120"	130.0	130.0	130.0	121.7	130.0	130.0	95.3	127.0	130.0	130.0	130.0	89.4	119.2	130.0	70.4	93.9	117.4
36"		118.8	130.0	130.0	101.4	130.0	130.0	79.4	105.9	130.0	130.0	130.0	74.5	99.4	124.2	58.7	78.2	97.8
42"		101.8	130.0	130.0	86.9	115.9	130.0	68.1	90.7	113.4	130.0	130.0	63.9	85.2	106.5	50.3	67.1	83.8
48"		89.1	118.8	130.0	76.1	101.4	126.8	59.6	79.4	99.3	117.3	130.0	55.9	74.5	93.2	44.0	58.7	73.4
54"		79.2	105.6	130.0	67.6	90.1	112.7	52.9	70.6	88.2	104.3	130.0	49.7	66.2	82.8	39.1	52.2	65.2
58"		73.7	98.3															

HEAD ANCHOR LOAD CAPACITY - PSF (W/ RECEPTOR) EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHORS TYPE 'AA'			ANCHORS 'BB'
WIDTH (W)	FRAME HEIGHT	AA3	AA4	AA5	BB3
30"	84"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		117.0	130.0	130.0	130.0
58"		109.0	130.0	130.0	130.0
60"		105.0	130.0	130.0	130.0
66"		96.0	128.0	130.0	130.0
72"	90"	88.0	117.0	130.0	130.0
78"		81.0	108.0	130.0	130.0
84"		75.0	100.0	125.0	127.0
30"		130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		123.0	130.0	130.0	130.0
54"		109.0	130.0	130.0	130.0
58"		102.0	130.0	130.0	130.0
60"		98.0	130.0	130.0	130.0
66"	96"	89.0	119.0	130.0	130.0
72"		82.0	109.0	130.0	130.0
78"		76.0	101.0	126.0	128.0
30"		130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		115.0	130.0	130.0	130.0
54"		102.0	130.0	130.0	130.0
58"	102"	95.0	127.0	130.0	130.0
60"		92.0	123.0	130.0	130.0
66"		84.0	112.0	130.0	130.0
72"		77.0	102.0	128.0	130.0
30"		130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		124.0	130.0	130.0	130.0
48"		108.0	130.0	130.0	130.0
54"	108"	96.0	128.0	130.0	130.0
58"		90.0	119.0	130.0	130.0
60"		87.0	116.0	130.0	130.0
66"		79.0	105.0	130.0	130.0
30"		130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		117.0	130.0	130.0	130.0
48"		102.0	130.0	130.0	130.0
54"	114"	91.0	121.0	130.0	130.0
58"		85.0	113.0	130.0	130.0
60"		82.0	109.0	130.0	130.0
66"		74.0	99.0	124.0	126.0
30"		130.0	130.0	130.0	130.0
36"		129.0	130.0	130.0	130.0
42"		111.0	130.0	130.0	130.0
48"		97.0	129.0	130.0	130.0
54"	120"	86.0	115.0	130.0	130.0
58"		8.0	107.0	130.0	130.0
60"		78.0	103.0	129.0	130.0
30"		130.0	130.0	130.0	130.0
36"		123.0	130.0	130.0	130.0
42"		105.0	130.0	130.0	130.0
48"		92.0	123.0	130.0	130.0
54"		82.0	109.0	130.0	130.0
58"	126"	76.0	102.0	127.0	129.0
30"		130.0	130.0	130.0	130.0
36"		117.0	130.0	130.0	130.0
42"		100.0	130.0	130.0	130.0
48"		88.0	117.0	130.0	130.0
54"		78.0	104.0	130.0	130.0

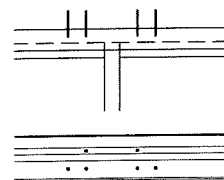
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

HEAD ANCHOR LOAD CAPACITY - PSF (W/ RECEPTOR) EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHORS TYPE 'AA'			ANCHORS 'BB'
WIDTH (W)	FRAME HEIGHT	AA3	AA4	AA5	BB3
30"	132"	130.0	130.0	130.0	130.0
36"		112.0	130.0	130.0	130.0
42"		96.0	128.0	130.0	130.0
48"		84.0	112.0	130.0	130.0
54"	138"	74.0	99.0	124.0	126.0
30"		128.0	130.0	130.0	130.0
36"		107.0	130.0	130.0	130.0
42"		91.0	122.0	130.0	130.0
48"		80.0	107.0	130.0	130.0
30"	144"	123.0	130.0	130.0	130.0
36"		102.0	130.0	130.0	130.0
42"		88.0	117.0	130.0	130.0
48"		77.0	102.0	128.0	130.0

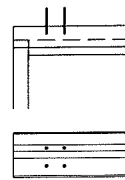
CHART ABOVE SHOWS FRAME HEIGHTS FOR CURTAIN WALL WITHOUT HEAD RECEPTOR.
FOR CURTAIN WALL WITH HEAD RECEPTORS OVERALL HEIGHT = FRAME HT. FROM CHART + 2-1/4".



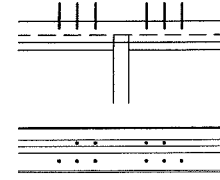
AA3, BB3



AA4



AA5



DOUBLE ROW
WITH HEAD RECEPTOR

ANCHORS TYPES:

- AA3 = (3) ANCHORS TYPE 'AA' AT EACH SIDE OF JAMB AND MULLION
- BB3 = (3) ANCHORS TYPE 'BB' AT EACH SIDE OF JAMB AND MULLION
- AA4 = (4) ANCHORS TYPE 'AA' AT EACH SIDE OF JAMB AND MULLION
- AA5 = (5) ANCHORS TYPE 'AA' AT EACH SIDE OF JAMB AND MULLION

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'AA'- 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD)

ANCHOR EDGE DISTANCES
INTO CONCRETE = 3" MIN.

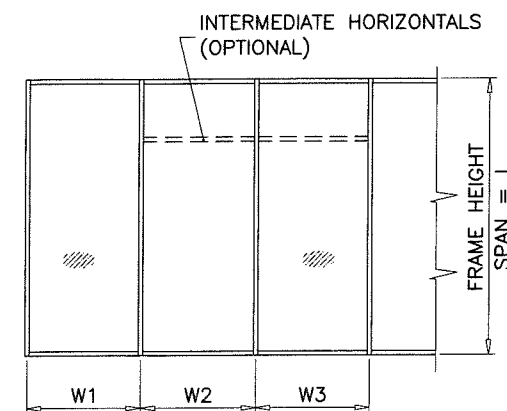
ANCHOR CL TO CL DISTANCE
INTO CONCRETE = 3" MIN.

TYPE 'BB'-5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1/2" MIN.

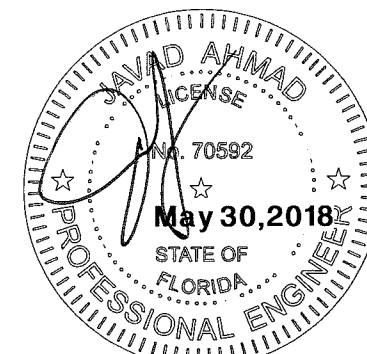
CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Dade 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-18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (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	05.25.18		NO CHANGE THIS SHEET

date: 01-15-18

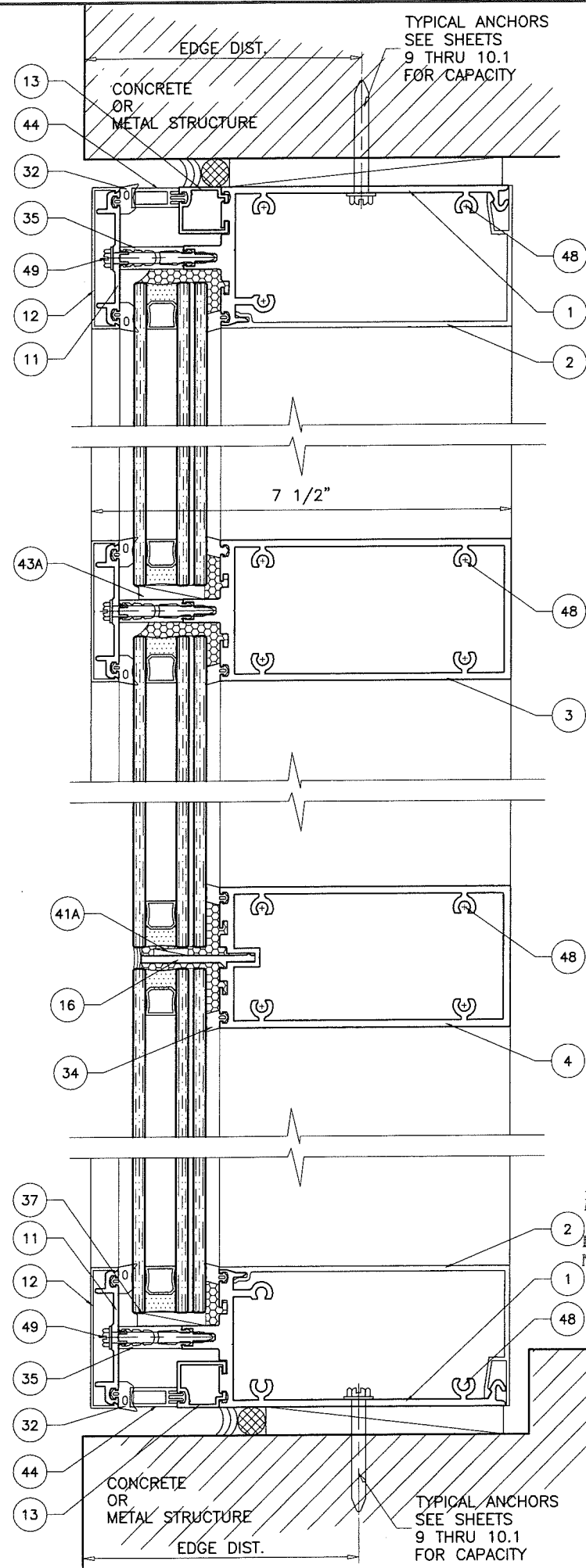
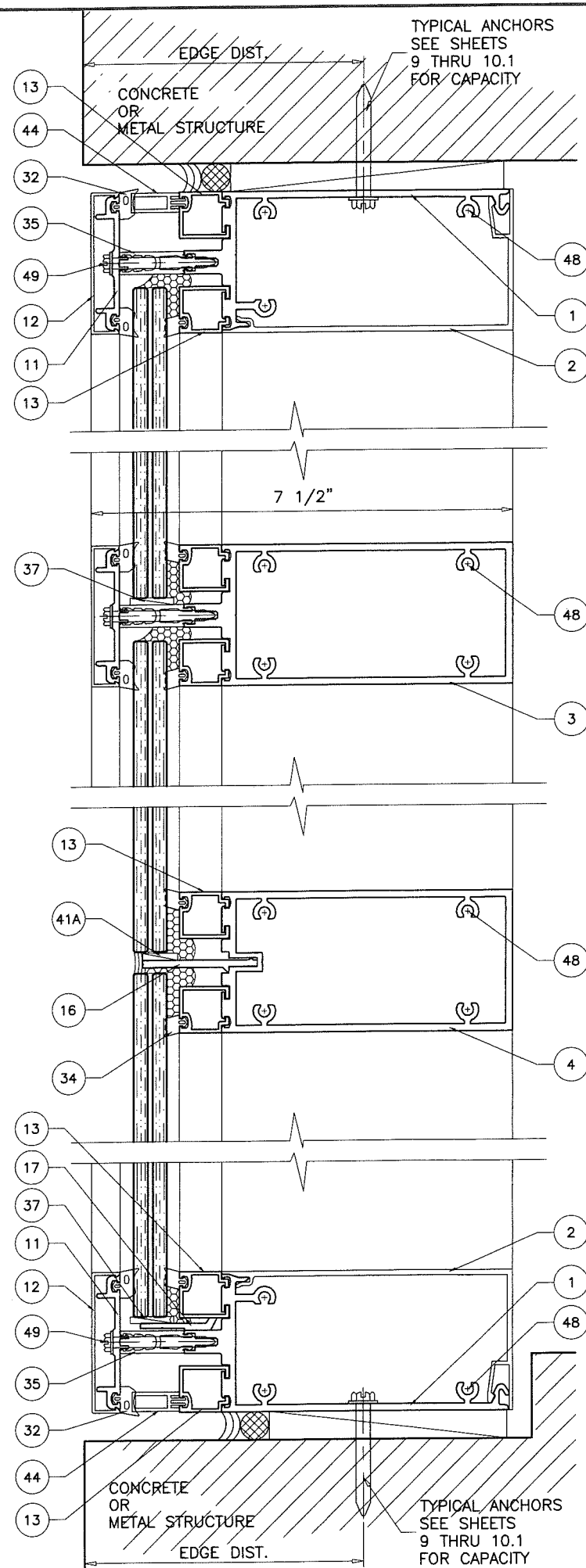
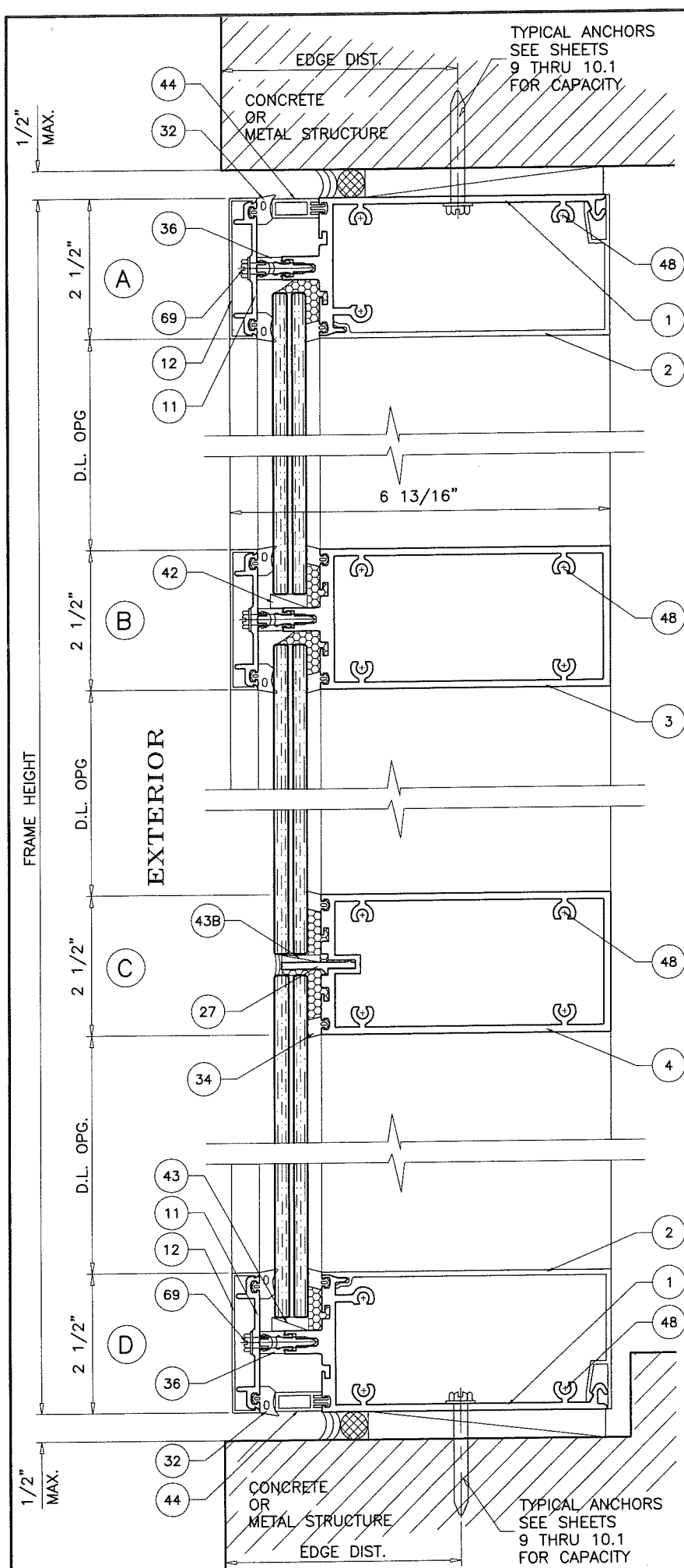
scale: -

dr. by: TARIQ

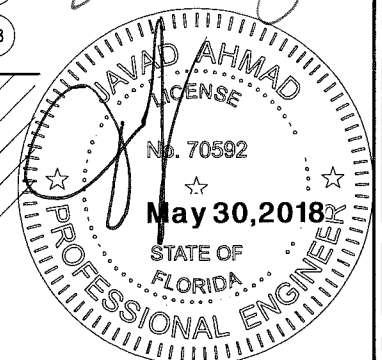
chk. by:

drawing no.
18-31D

sheet 10.1 of 23



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By Manuel Perez
Miami Dade Product Control



afC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

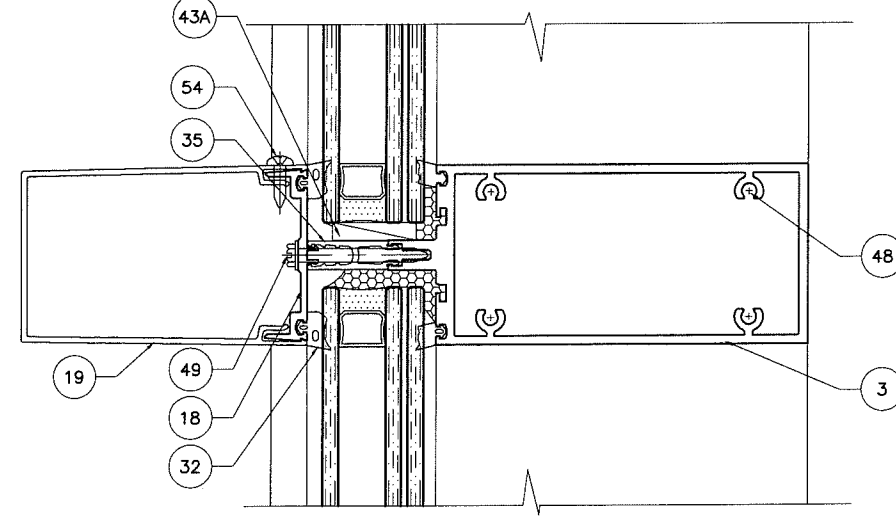
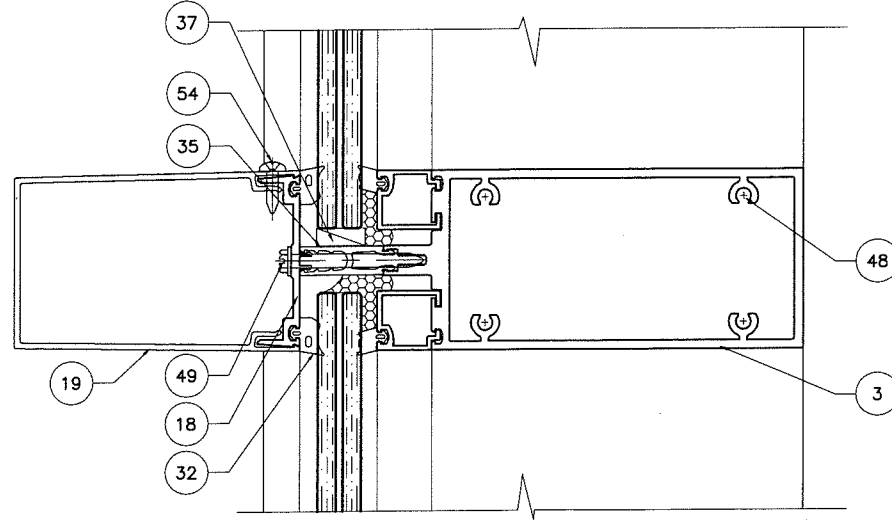
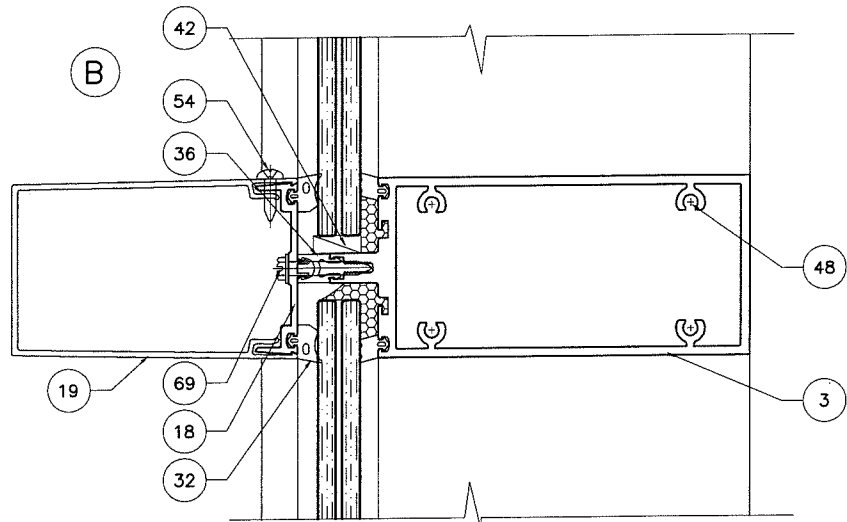
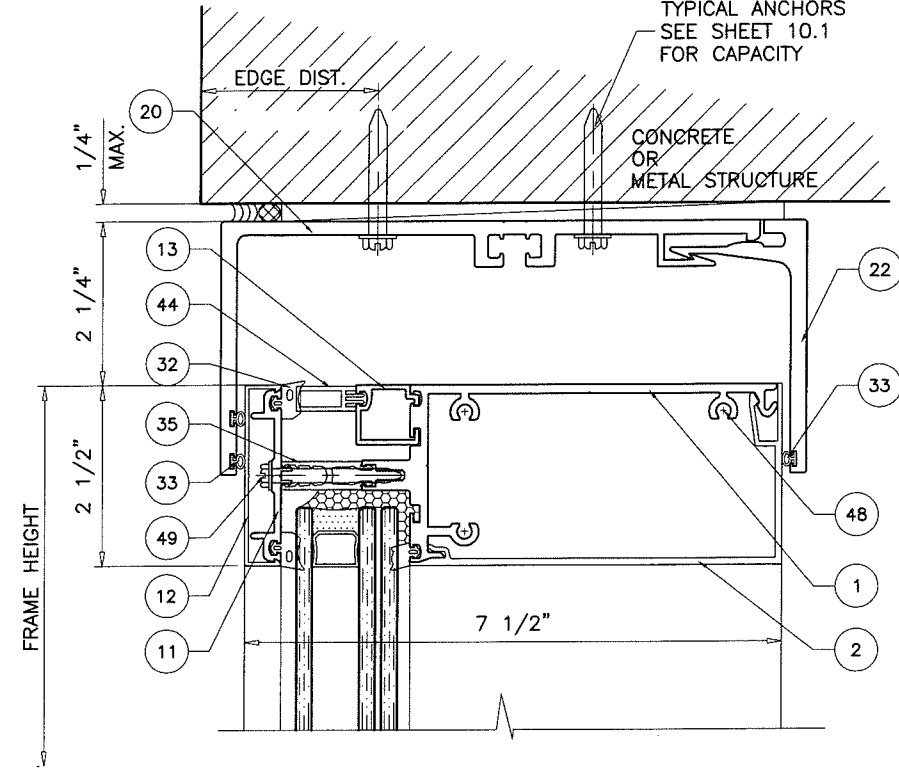
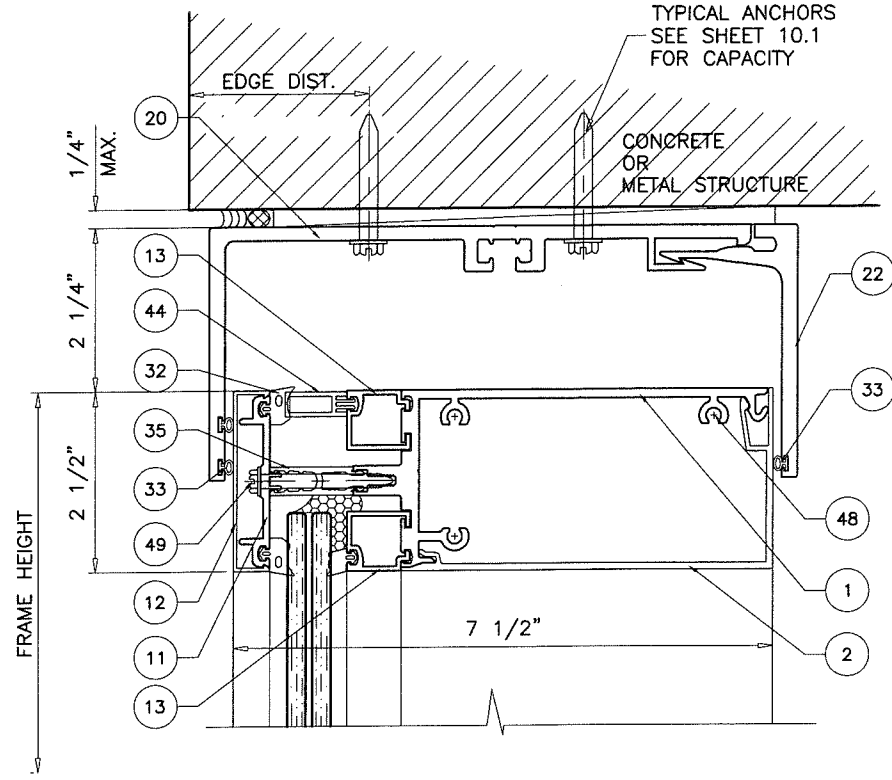
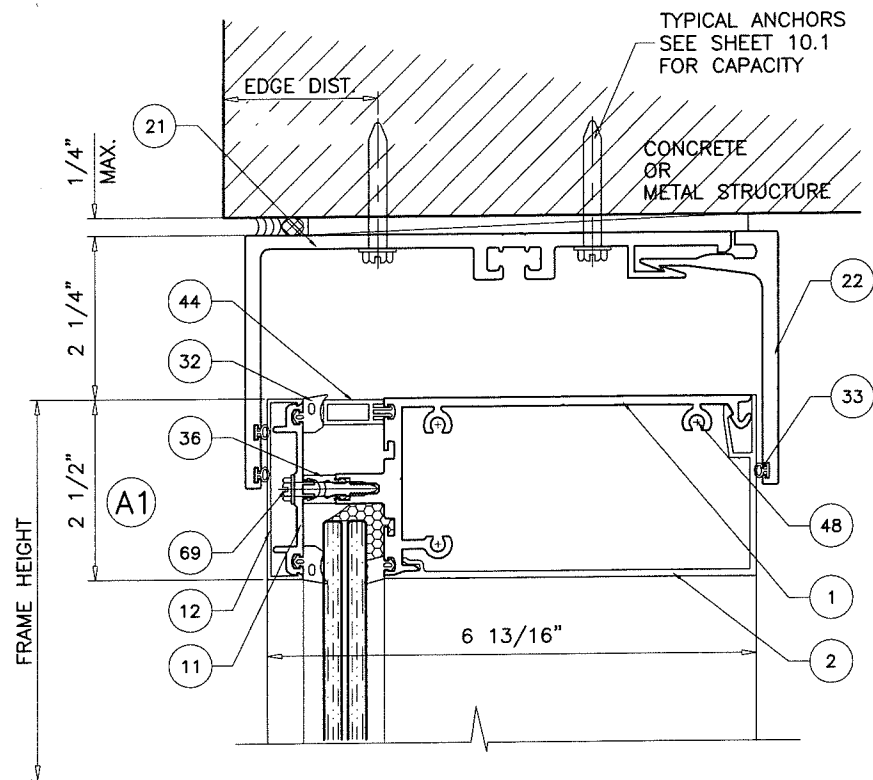
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	by	description	REV.	PER	COMMENTS
A	05.25.18					

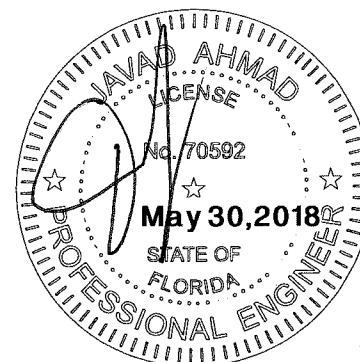
revisions:

date: 01-15-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-31D
sheet 11 of 23



PRODUCT REVISED
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By Manuel Geroz
Miami/Dade Product Control



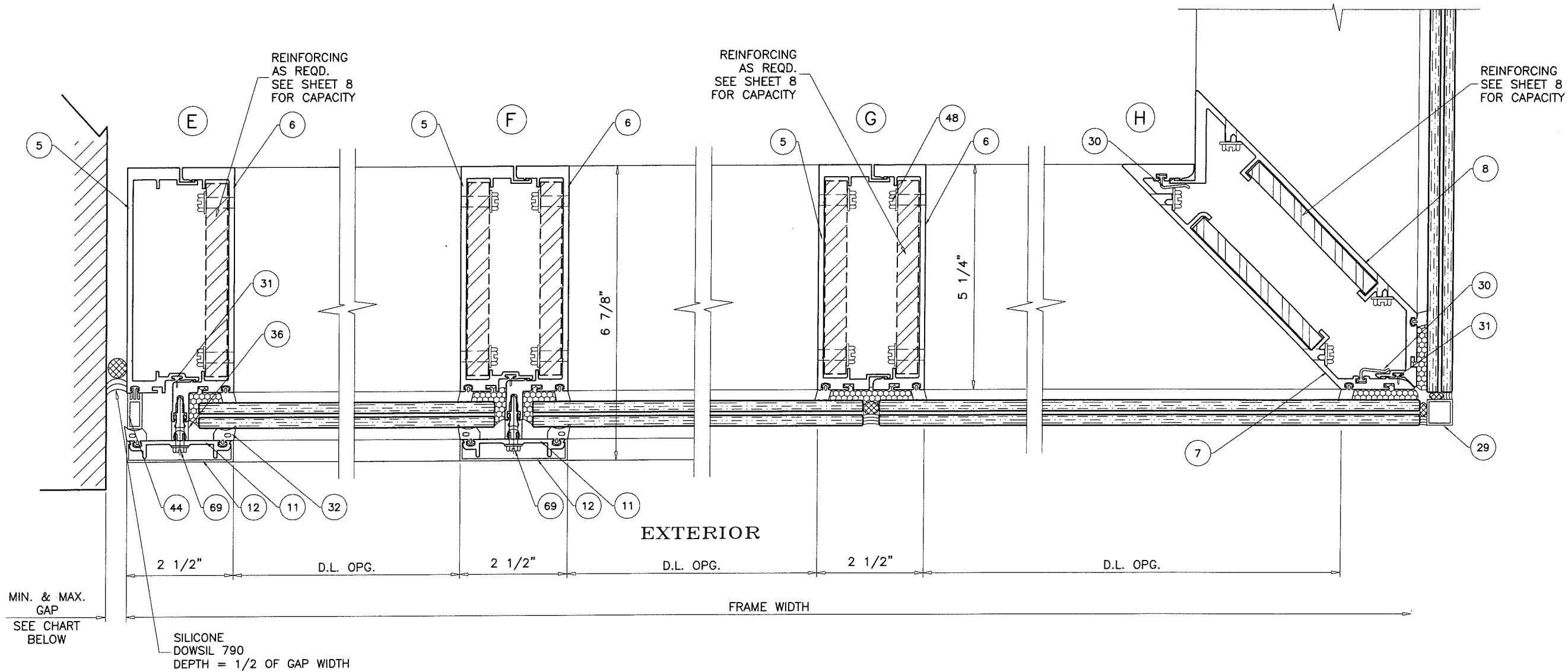
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

revisions:		no	date	by	description
		A	05.25.18		NO CHANGE THIS SHEET
date:	01-15-18	scale:	3/8" = 1"	dr. by:	TARIQ
				chk. by:	
drawing no.		18-31D			
sheet 12 of 23					

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

COMP-ANL\18-31D-TG



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	5/16"	3/4"
120"	3/8"	3/4"
144"	1/2"	3/4"

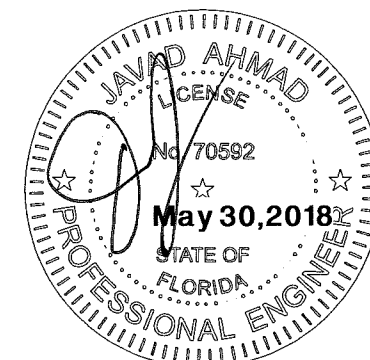
NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

PRODUCT REVISED
 as complying with the Florida
 Building Code
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By *Manuel Belez*
 Miami Dade Product Control



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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COMP-ANL\18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

18-31D

revisions:

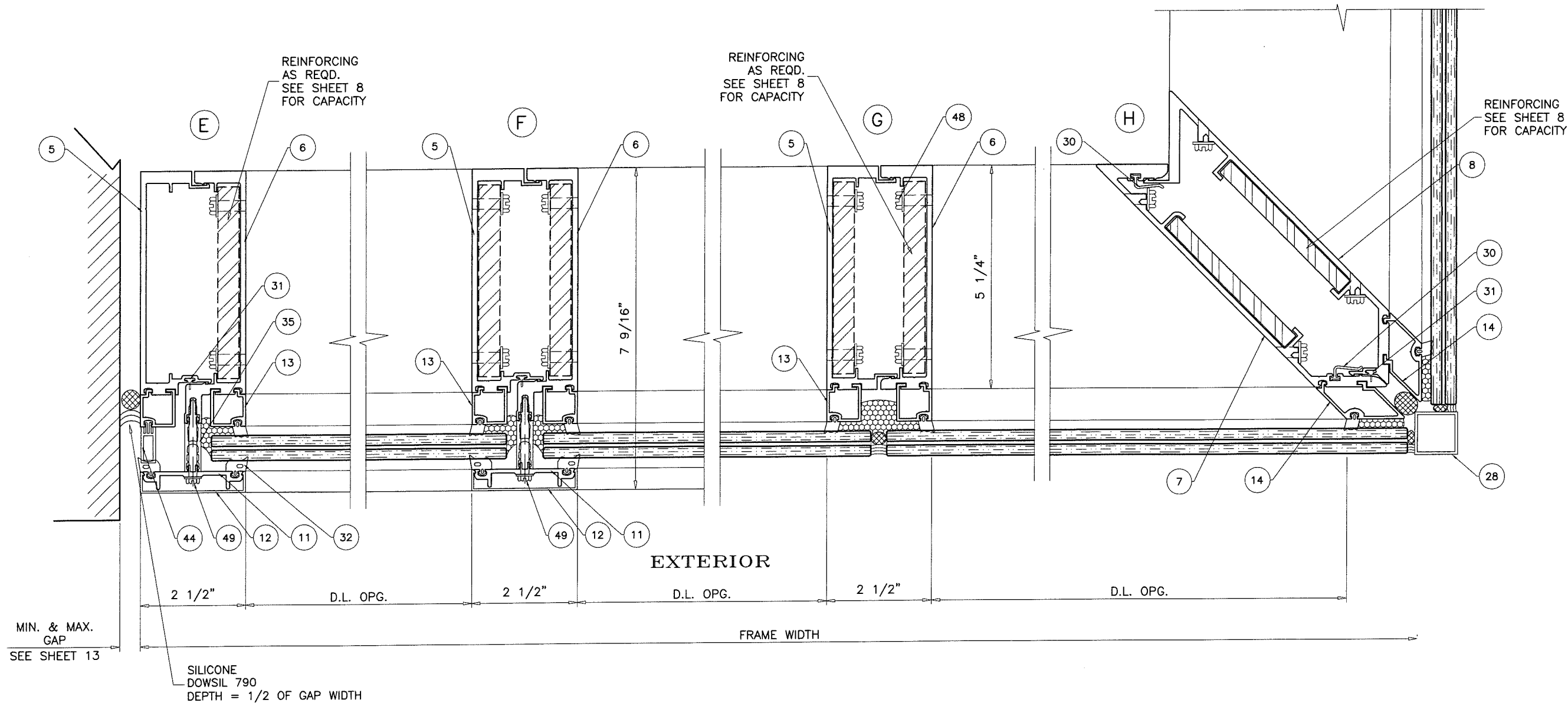
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 chk. by:

drawing no.

18-31D

sheet 13 of 23



PRODUCT REVISED
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Miami Dade Product Control



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9360 SUNSET DRIVE, SUITE 220
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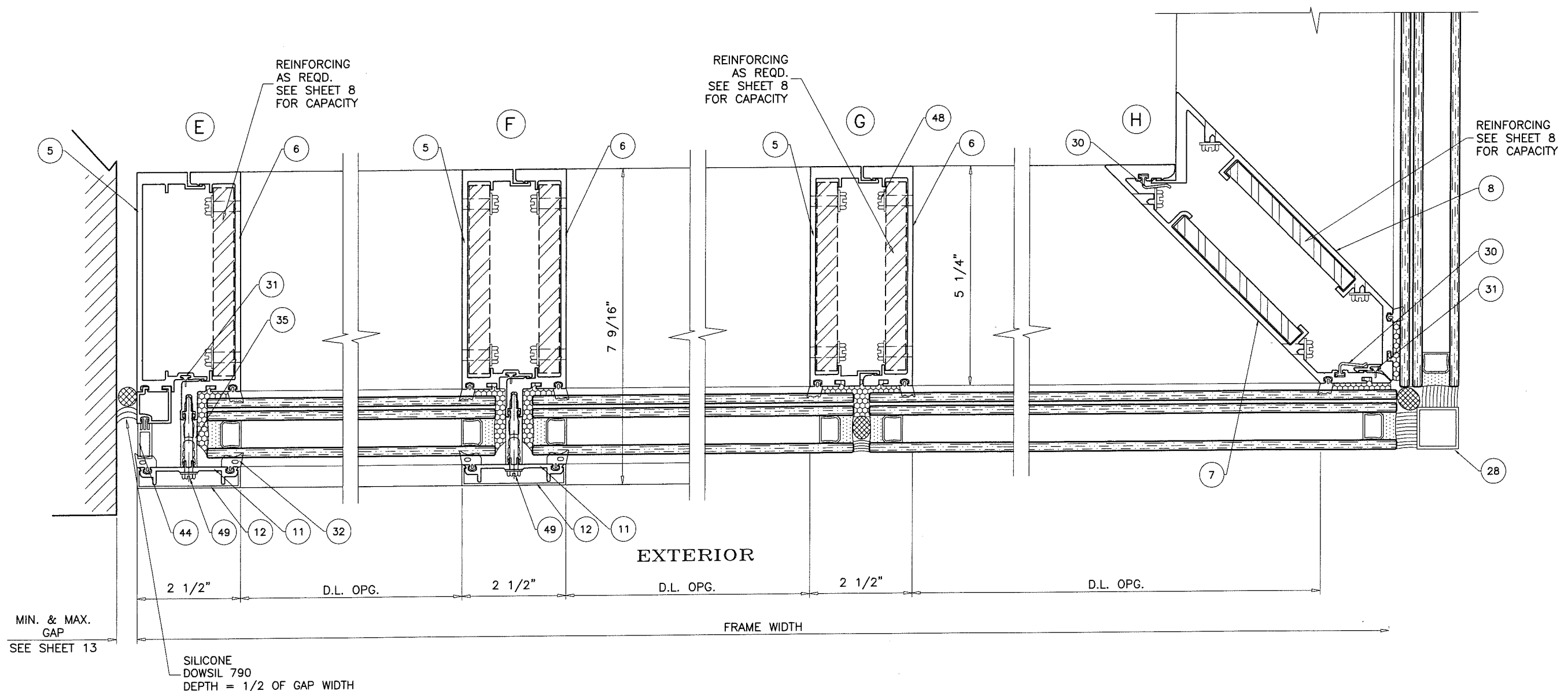
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3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date:	scale:	dr. by:	chk. by:
no.	description				
A	05.25.18 NO CHANGE THIS SHEET	01-15-18	3/8" = 1"	TARIQ	

drawing no.
18-31D

sheet 14 of 23



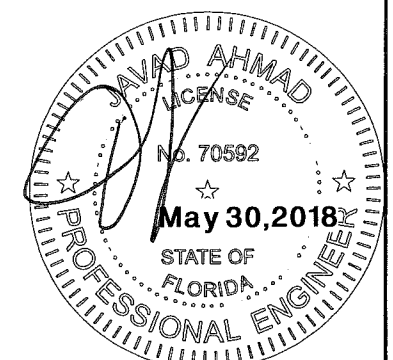
MIN. & MAX.
GAP
SEE SHEET 13

SILICONE
DOWSIL 790
DEPTH = 1/2 OF GAP WIDTH

EXTERIOR

FRAME WIDTH

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 14, 2023
By *Manuel Perez*
Miami Trade 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\18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

revisions:		date:	scale:	dr. by:	chk. by:
no	date	by	description		
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date: 01-15-18

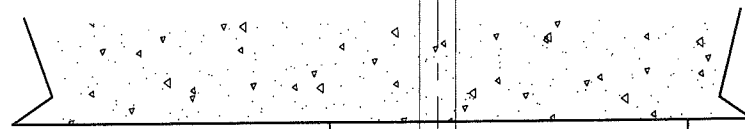
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dr. by: TARIQ

chk. by:

drawing no.
18-31D

sheet 15 of 23



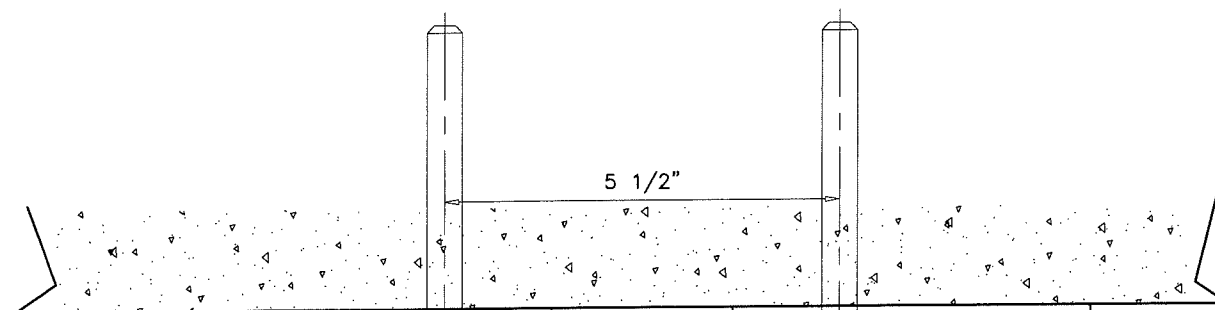
(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

**JAMB
ANCHOR TYPE '1'**
WIND LOAD ≤ 1900 LBS
DEAD LOAD ≤ 330 LBS

1 1/2"
MAX.

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 11 \text{ PSF}$$

DETAIL '4A'



(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

26

**INTERMEDIATE
ANCHOR TYPE '1'**
WIND LOAD ≤ 3800 LBS
DEAD LOAD ≤ 660 LBS

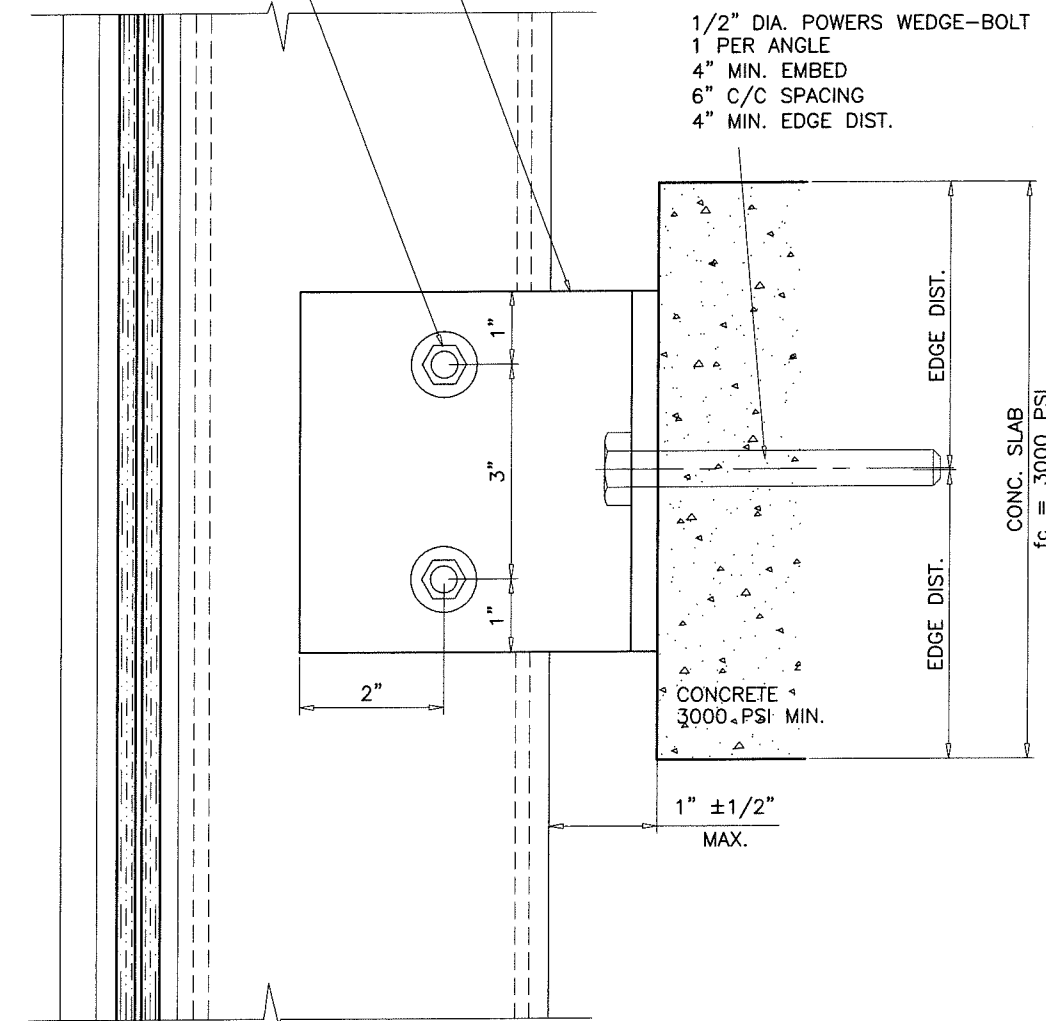
$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 11 \text{ PSF}$$

**MIDSPAN ANCHOR
INTO 3000 PSI MIN. CONCRETE**

5 X 5 X 3/8"
STL. ANGLE, 5" LONG
AT EACH SIDE OF MULLION

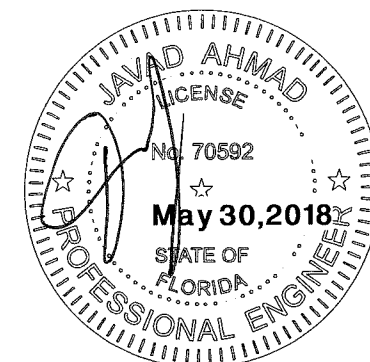
1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT

1/2" DIA. POWERS WEDGE-BOLT
1 PER ANGLE
4" MIN. EMBED
6" C/C SPACING
4" MIN. EDGE DIST.



INTERMEDIATE ANCHORS

PRODUCT REVISED
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Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Dade Product Control



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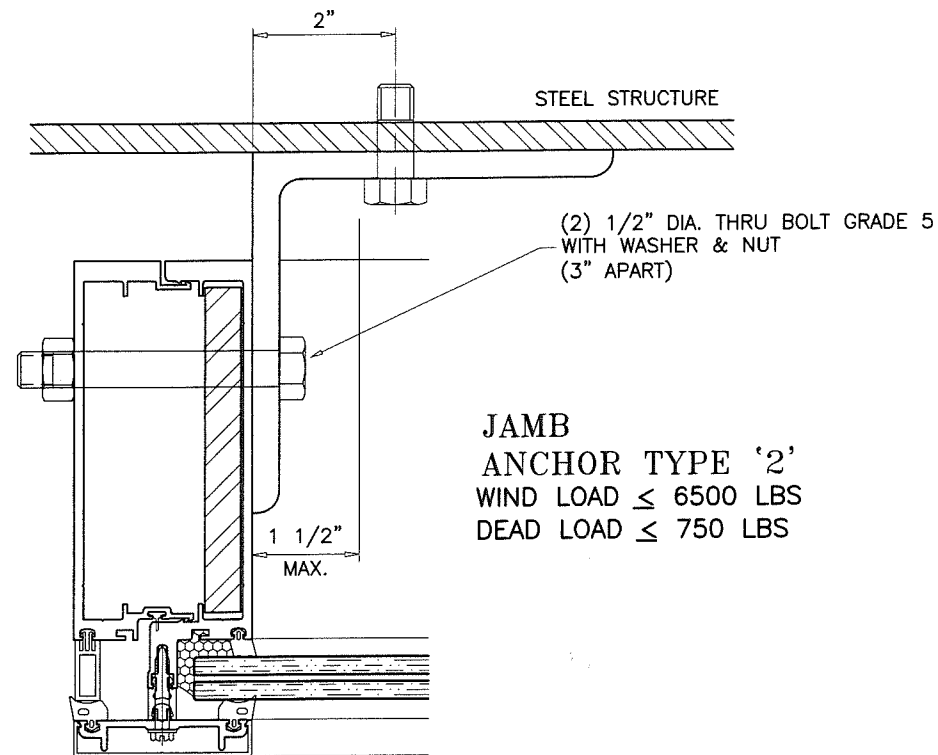
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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date:	01-15-18	scale:	3/8" = 1"	dr. by:	TARIQ
		chk. by:			
drawing no.		18-31D			
sheet 16 of 23					

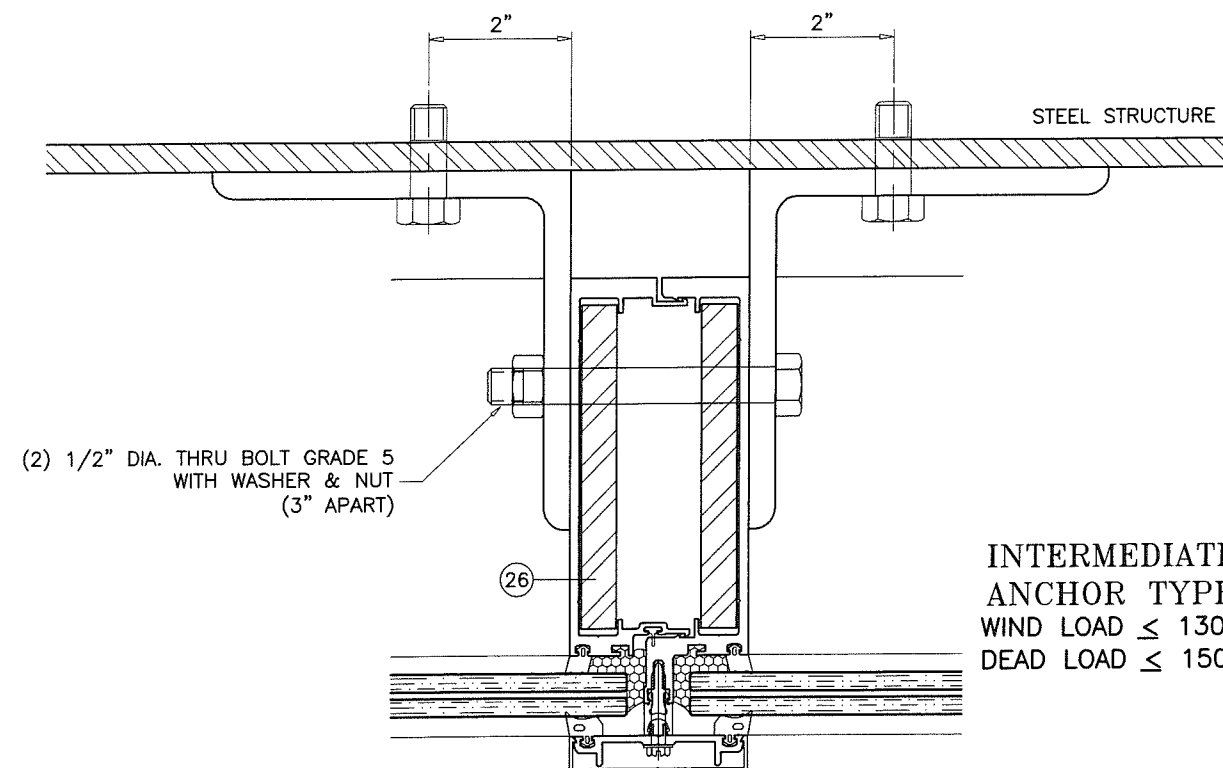
COMP-ANL 18-31D-TG



DETAIL '4A' (ALT.)

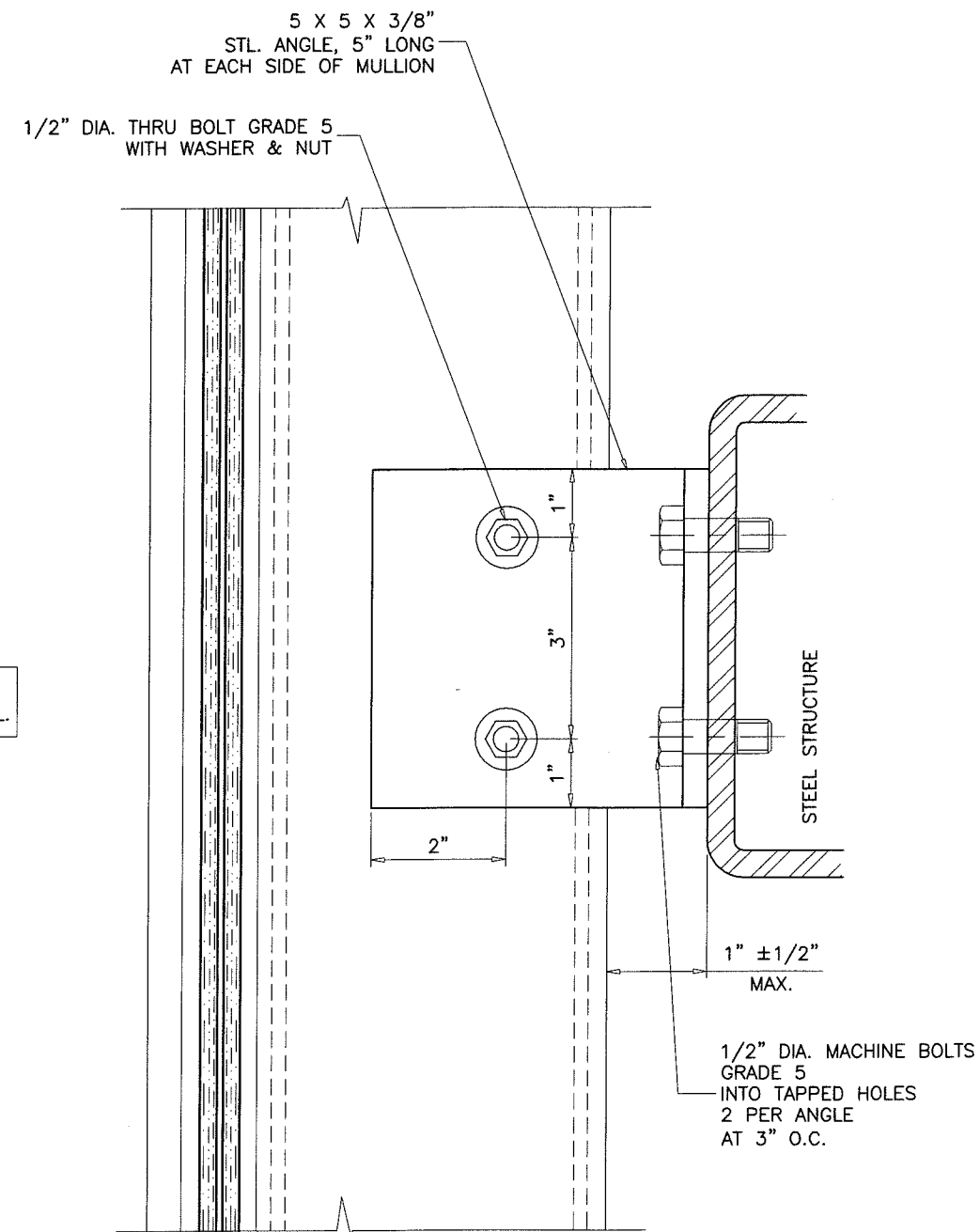
JAMB
ANCHOR TYPE '2'
WIND LOAD $\leq$ 6500 LBS
DEAD LOAD $\leq$ 750 LBS

ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.



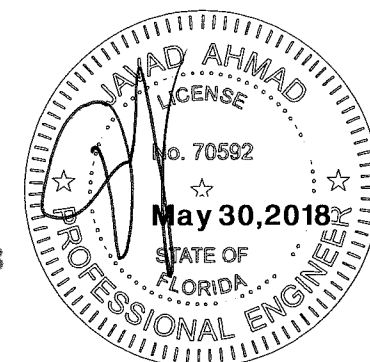
INTERMEDIATE
ANCHOR TYPE '2'
WIND LOAD $\leq$ 13000 LBS
DEAD LOAD $\leq$ 1500 LBS

MIDSPAN ANCHOR
INTO 1/4" THK. MIN. CCOMMERCIAL STEEL



INTERMEDIATE ANCHORS

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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

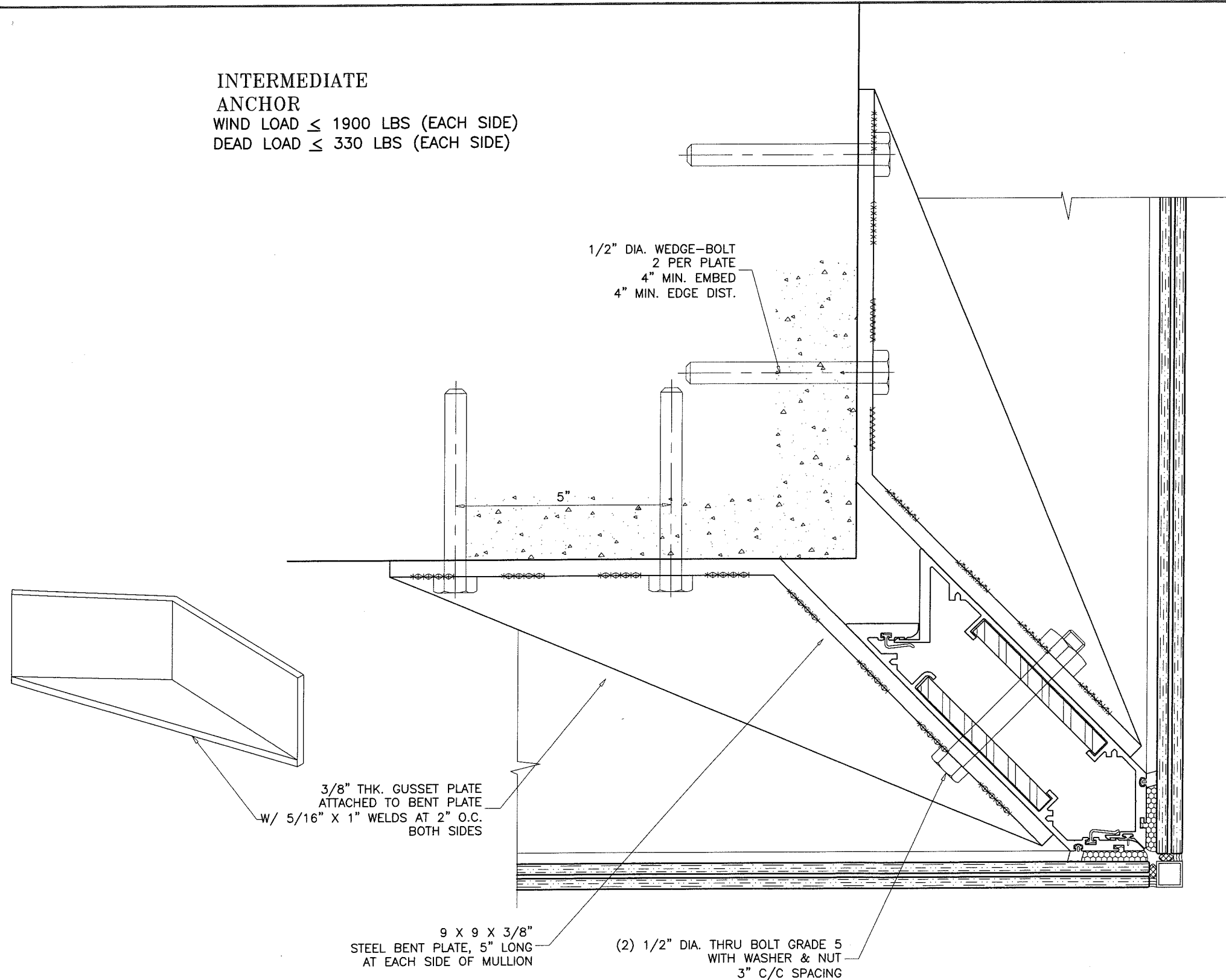
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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				chk. by:	
drawing no.		18-31D			
sheet 17 of 23					

COMP-ANL\18-31D-TG

INTERMEDIATE
ANCHOR

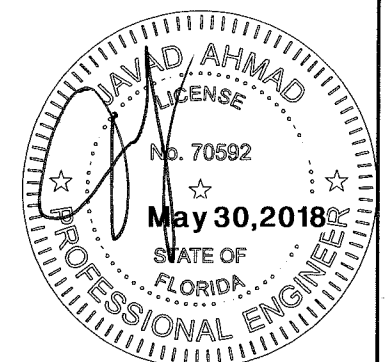
WIND LOAD $\leq$ 1900 LBS (EACH SIDE)
DEAD LOAD $\leq$ 330 LBS (EACH SIDE)



CORNER MULLION ANCHORS

MIDSPAN ANCHOR
INTO 3000 PSI MIN. CONCRETE

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Miami Dade Product Control



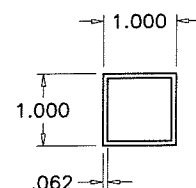
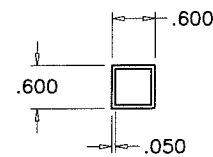
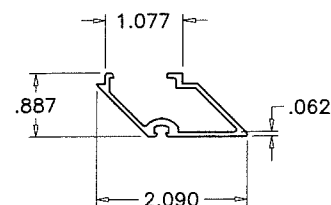
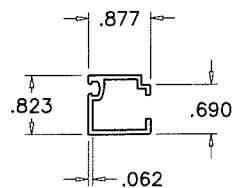
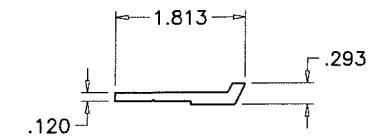
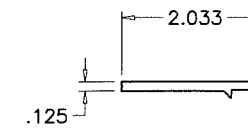
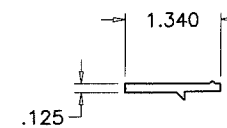
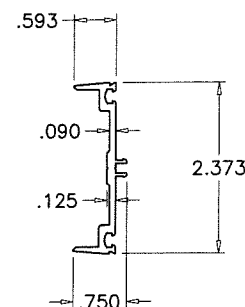
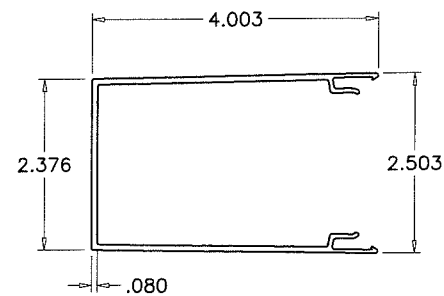
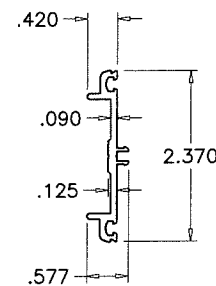
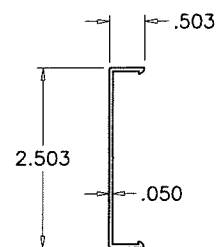
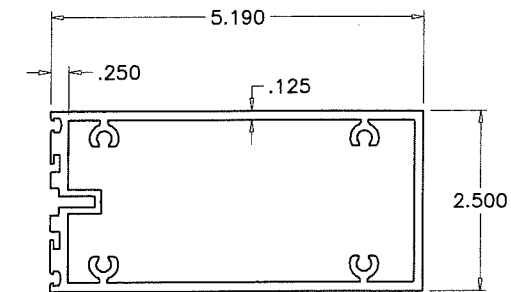
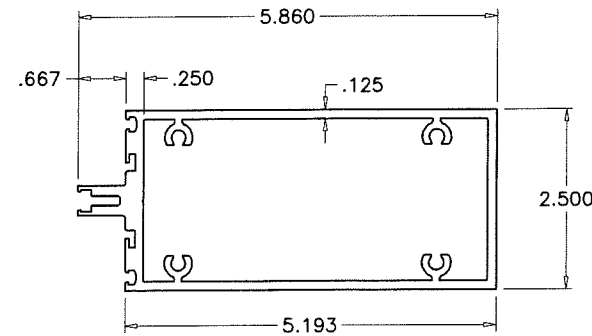
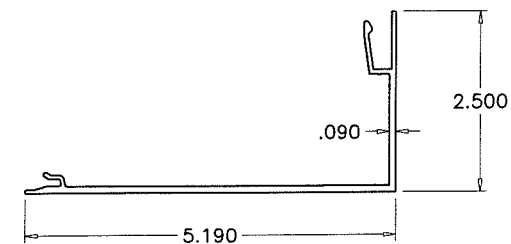
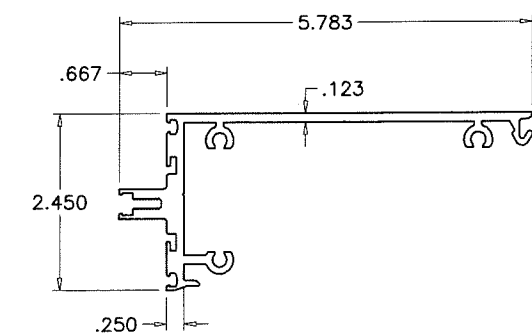
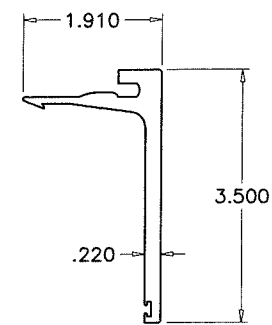
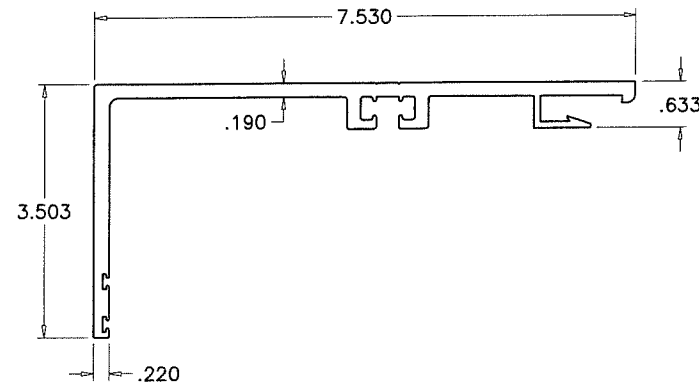
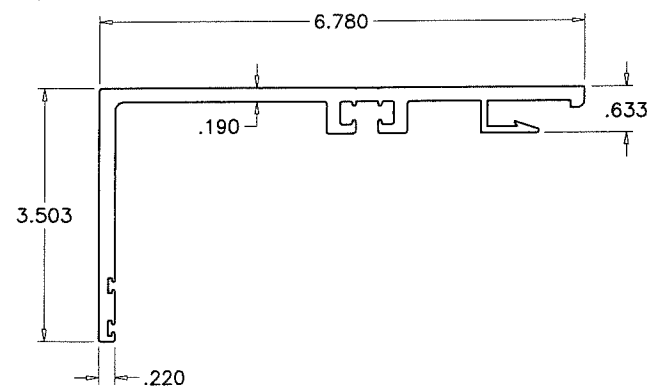
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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3550 N.W. 49 STREET
MIAMI, FL. 33142
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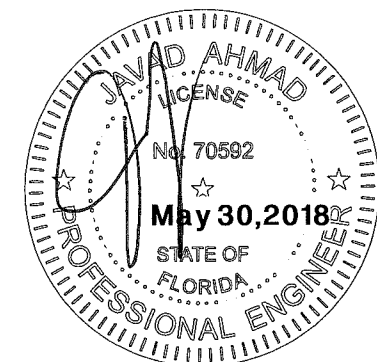
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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COMP-ANL\18-31D-TG

revisions:		no	date	by	description
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drawing no.	18-31D				
sheet	18 of 23				



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.02
Expiration Date July 19, 2023
By Manuel Diaz
Miami Dade Product Control

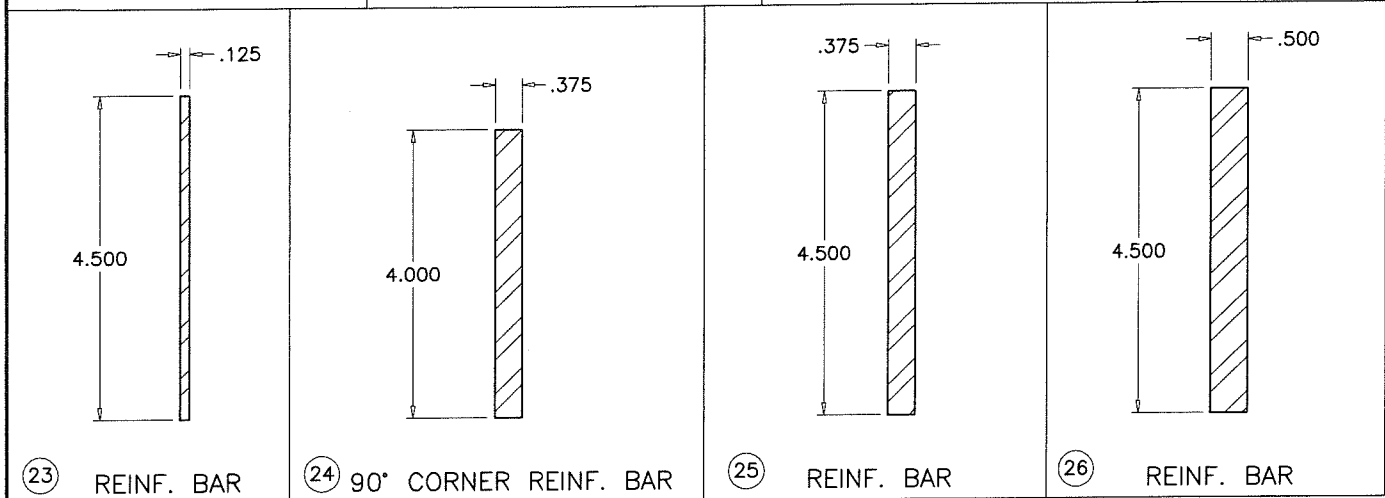
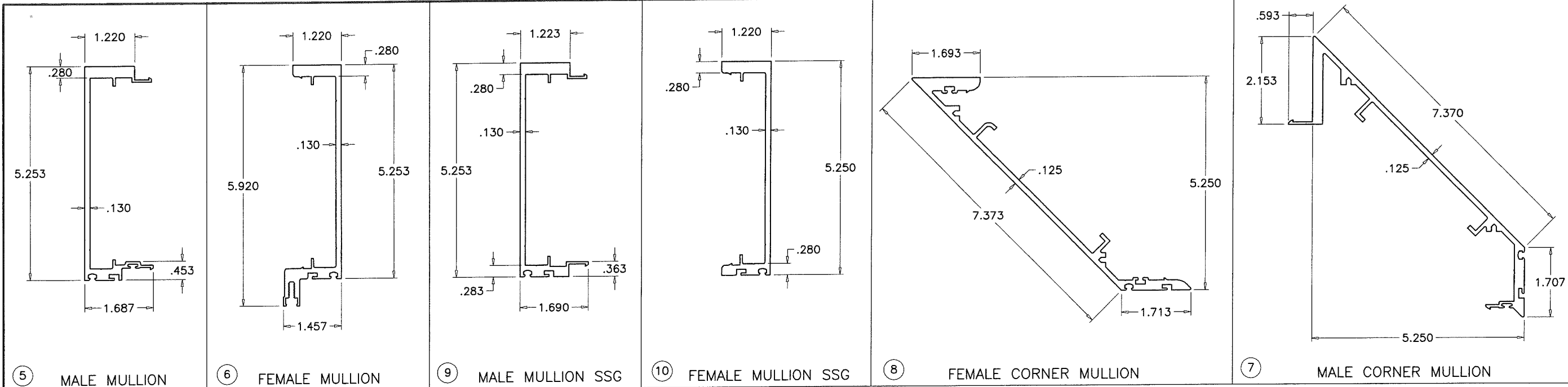


AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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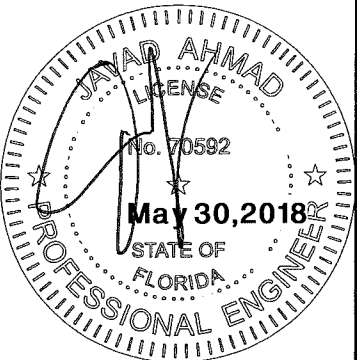
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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3550 N.W. 49 STREET
MIAMI, FL. 33142
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date: 01-15-18			
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chk. by:			
drawing no. 18-31D			
sheet 20 of 23			
revisions:			
no	date	by	description
A	05.25.18		NO CHANGE THIS SHEET



PRODUCT REVISED
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Building Code
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By *Manuel Torres*
Miami Dade Product Control



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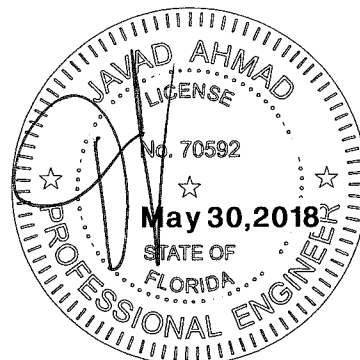
drawing no.

18-31D

sheet 21 of 23

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	AS REQD.	HEAD / SILL	6063-T6	-
2	-	AS REQD.	HEAD / SILL COVER	6063-T6	-
3	-	AS REQD.	HORIZONTAL MULLION	6063-T6	-
4	-	AS REQD.	STRUCTURAL HORIZONTAL MULLION	6063-T6	-
5	-	AS REQD.	MALE MULLION	6063-T6	-
6	-	AS REQD.	FEMALE MULLION	6063-T6	-
7	-	AS REQD.	90° MALE CORNER MULLION	6063-T6	-
8	-	AS REQD.	90° FEMALE CORNER MULLION	6063-T6	-
9	-	AS REQD.	MALE MULLION	6063-T6	-
10	-	AS REQD.	FEMALE MULLION	6063-T6	-
11	-	AS REQD.	PRESSURE PLATE	6063-T6	-
12	-	AS REQD.	BEAUTY CAP	6063-T6	-
13	-	AS REQD.	GLAZING ADAPTER	6063-T6	-
14	-	AS REQD.	90° GLAZING ADAPTER	6063-T6	-
15	-	AS REQD.	STRUCTURAL GLAZING ADAPTER	6063-T6	-
16	-	AS REQD.	STRUCTURAL GLAZING SHELF	6063-T6	-
17	-	AS REQD.	GLASS SHELF SUPPORT	6063-T6	-
18	-	AS REQD.	PRESSURE PLATE EXTENDED CAP	6063-T6	-
19	-	AS REQD.	EXTENDED CAP	6063-T6	-
20	-	AS REQD.	STRUCTURAL EXTERIOR HEAD RECEPTOR (7 1/2")	6063-T6	-
21	-	AS REQD.	STRUCTURAL EXTERIOR HEAD RECEPTOR (6 7/8")	6063-T6	-
22	-	AS REQD.	BACK STRUCTURAL HEAD RECEPTOR	6063-T6	-
23	-	AS REQD.	1/8" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	-
24	-	AS REQD.	3/8" X 4" FULL LENGTH REINFORCEMENT BAR (90 CORNER MULLION)	STEEL ASTM-A36	-
25	-	AS REQD.	3/8" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	-
26	-	AS REQD.	1/2" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	-
27	-	AS REQD.	STRUCTURAL GLAZING SHELF	6063-T6	-
28	-	AS REQD.	1" x 1" TUBE	6063-T6	-
29	-	AS REQD.	5/8" TUBE	6063-T6	-
30	-	AS REQD.	ANTI-BUCKLING CLIP (4" LONG EVERY 12" SPACING)	6063-T6	-
31	-	AS REQD.	MULLION SEAL GASKET	SILICONE	-
32	-	AS REQD.	INTERIOR GLASS SPACER	SILICONE	-
33	-	AS REQD.	BULB GASKET	SILICONE	-
34	-	AS REQD.	1/4" SLIDE-IN INTERIOR PRESSURE GASKET	SILICONE	-
35	-	AS REQD.	1 5/16" CW SPACER	POLYIMIDE	-
36	-	AS REQD.	9/16" CW SPACER	POLYIMIDE	-
37	-	AS REQD.	1/8" x 3/4" SETTING BLOCK	EPDM	-
38	-	AS REQD.	HIGH MODULUS TWO PART STRUCTURAL	SILICONE	-
41	-	AS REQD.	3/16" x 5/8" SETTING BLOCK	EPDM	-
41A	-	AS REQD.	1/8" x 5/8" SETTING BLOCK	EPDM	-
42	-	2/ LITE	3/16" x 1 7/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	-
42A	-	2/ LITE	1/8" x 1 7/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	-
43	-	2/ LITE	1/4" x 11/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	-
43A	-	2/ LITE	1/4" x 1 1/2" SETTING BLOCK, AT 1/4 POINTS	EPDM	-
43B	-	2/ LITE	1/8" x 11/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	-
44	-	AS REQD.	27/32" EDGE THERMAL ISOLATOR	PVC	-
45	-	AS REQD.	5" X 5" X 3/8" X 8" LG. ANGLE	STEEL ASTM-A36	-
46	-	AS REQD.	4" X 4" X 1/4" X 4 1/2" LG. FORMED ANGLE	STEEL ASTM-A36	-
47	-	AS REQD.	1/2" X 4 1/2" LG. THRU BOLT W/LOCK NUT & WASHER	SAE GRADE 5	-
47A	-	AS REQD.	5/8" X 4 1/2" LG. THRU BOLT W/LOCK NUT & WASHER	SAE GRADE 5	-
48	-	AS REQD.	1/4" - 14 X 1 1/2" LG. (AT VERTICAL & HORIZONTAL MULLION)	SAE GRADE 5	-
49	-	AS REQD.	#12 X 1 3/4" PHILLIPS PAN HEAD SHEET METAL SCREW	STAINLESS STEEL	-
52	-	AS REQD.	3/4" Ø HH POWER EDGE BOLT	SAE GRADE 5	-
53	-	AS REQD.	1/4" FILLET, 4" LONG TOP & BOTTOM	MILD STEEL E70	-
54	-	AS REQD.	#10 X 3/4" LG S,S S.S	STAINLESS STEEL	-
55	-	AS REQD.	1/4" X 1 1/2" X 1 1/2" WELD WASHER	MILD STEEL E70	-
56	-	AS REQD.	5" X 3" X 1/4" X 8" LG. ANGLE	STEEL ASTM-A36	-
57	-	AS REQD.	1/4" FILLET, 1 1/2" LONG TOP & BOTTOM	MILD STEEL E70	-
58	-	AS REQD.	1 5/16" X 2 1/16 HALFEN ANCHOR	STEEL ASTM-A36	-
59	-	AS REQD.	SPACER GASKET	SILICONE	-
60	-	AS REQD.	1/4 - 14 X 2" LG HEX WASHER HEAD	STAINLESS STEEL	-
61	-	AS REQD.	1/4 - 14 X 2" LG FLAT HEAD (AT 90° CORNER MULLION)	STAINLESS STEEL	-
67	-	AS REQD.	ZONE PLUG	EPDM	-
69	-	AS REQD.	# 12 X 1" PHILLIPS PAN HEAD SHEET METAL SCREW	STAINLESS STEEL	-

PRODUCT REVISED
 complying with the Florida Building Code
 Acceptance No. 180404.02
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 By *Manuel Perez*
 Miami Dade Product Control



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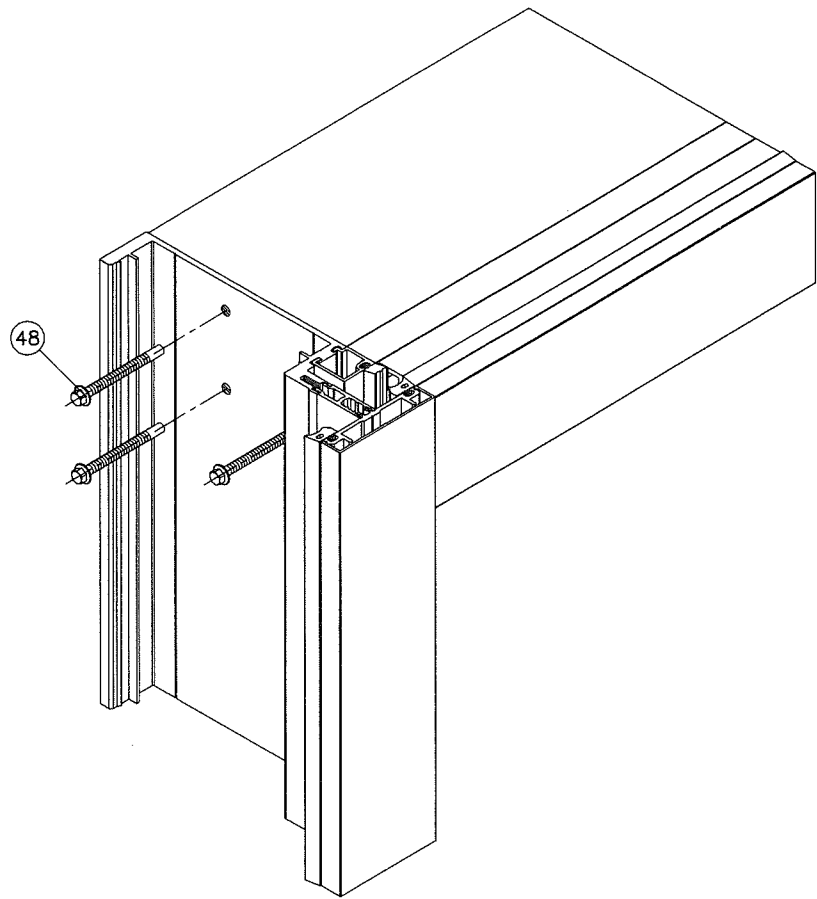
revisions:

no	date	by	description
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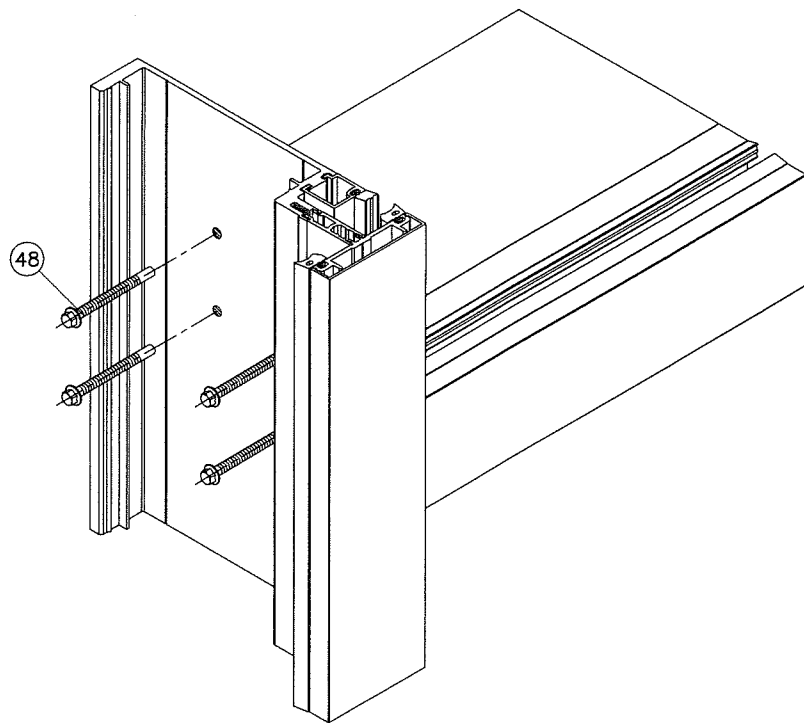
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 chk. by:

drawing no.
18-31D
 sheet 22 of 23

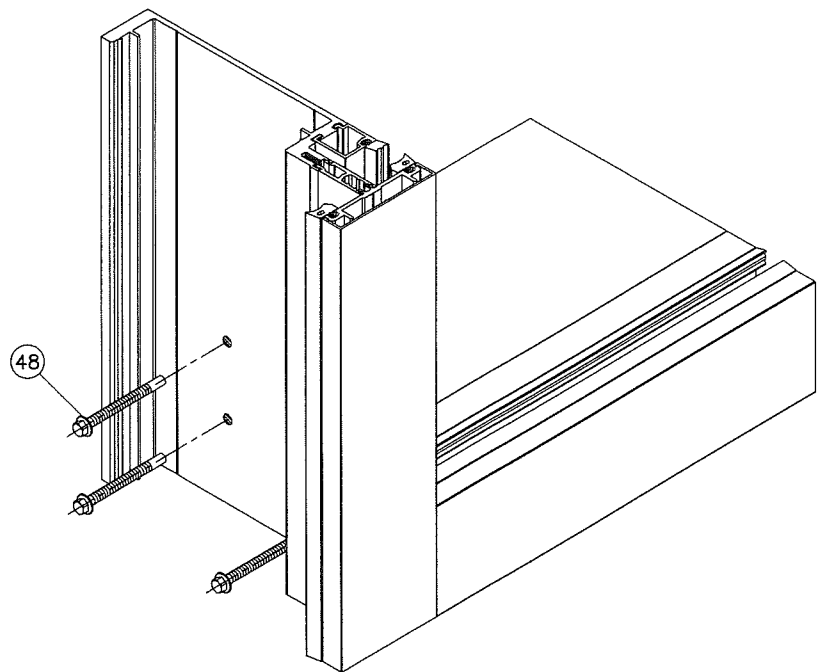
COMP-ANL \ 18-31D-TG



FRAME TOP CORNER

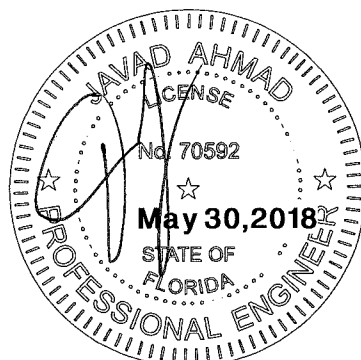


FRAME HORIZONTAL CORNER



FRAME BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0404-02
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Dade Product Control



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\18-31D-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (L.M.I.)

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

18-31D

revisions:		date	by	description
no	date	by	description	
A	05.25.18			NO CHANGE THIS SHEET

date: 01-15-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-31D
sheet 23 of 23