



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 – S.M.I.

APPROVAL DOCUMENT: Drawing No. **18-15D**, titled "Series-5250 Aluminum Curtain Wall System (S.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: 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. **12-0913.05** 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. 18-0404.03
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. **WW5250S**, titled "Series 5250 Aluminum Thermal Window Wall System Small 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 #2 dated 12/11/12, prepared by manufacturer, signed and sealed by Leon Murray, P.E.

B. TESTS

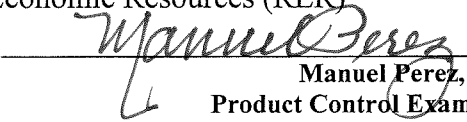
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading 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. 18-0404.03
Expiration Date: July 19, 2023
Approval Date: July 19, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their “**DuPont Butacite® Interlayer**” dated 09/08/11, expiring on 12/11/16.

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. 18-0404.03
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **18-15D**, titled “Series-5250 Aluminum Window Wall System (S.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. **17-1114.14** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 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. 12-1126.04, dated 02/09/15, 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. **12-0913.05**, issued to Glasswall, LLC, for their Series “5250 Thermal” Aluminum Window Wall System – S.M.I., approved on 12/27/12 and expiring on 12/27/17.


Manuel Perez, P.E.
Product Control Examiner

NOA No. 18-0404.03

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 STEP'S 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.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.

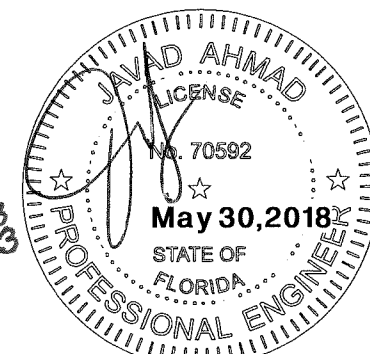
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

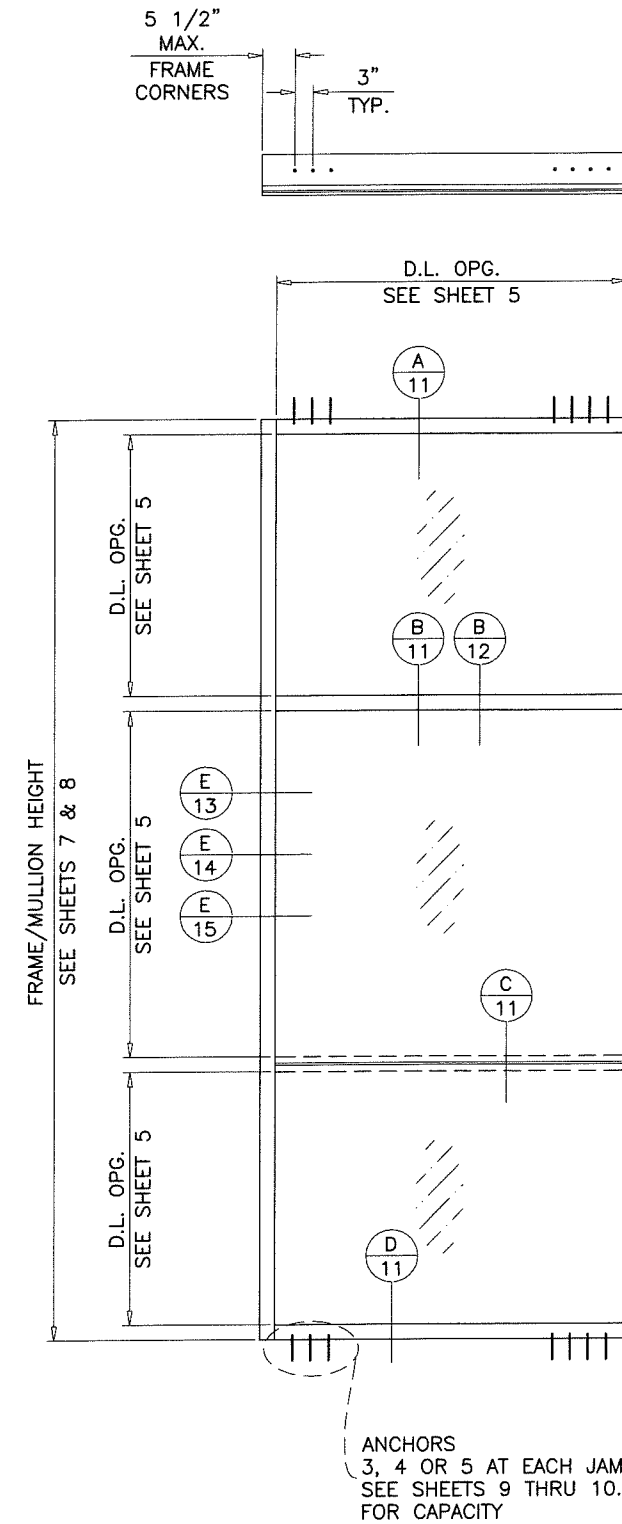
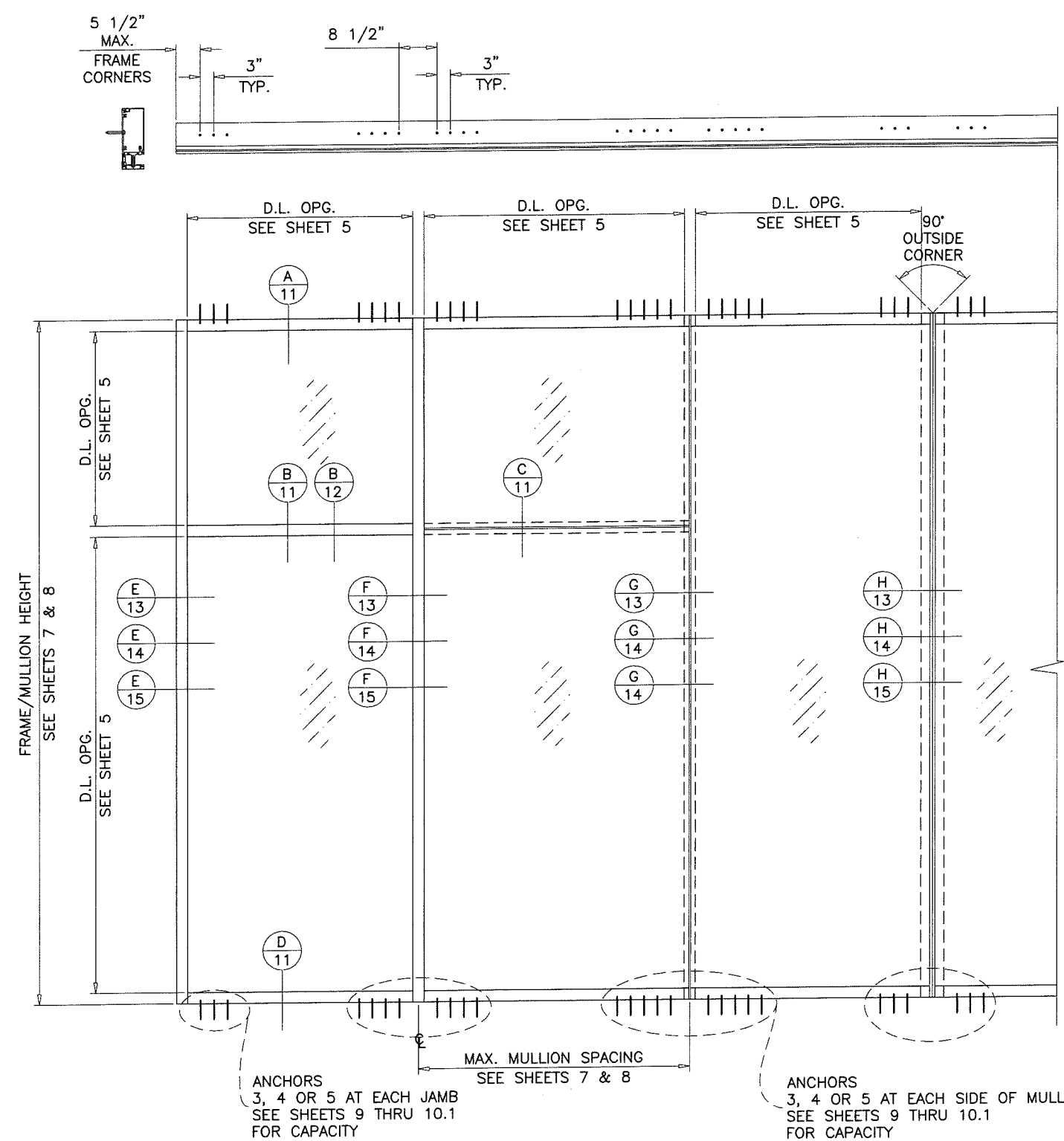
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **18-0404.03**
Expiration Date **July 19, 2023**
By **Manuel Sery**
Miami-Dade Product Council

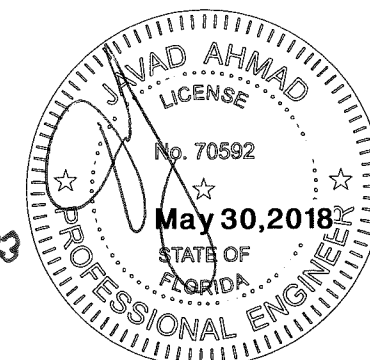


AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978		TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		COMP-ANL \ 18-15D-TG	
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)		revisions:		date: 01-15-18	
no. date by description		REV. PER RER COMMENTS		scale: -	
A 05.25.18				dr. by: TARIQ	
				chk. by:	
				drawing no.	
				18-15D	
				sheet 1 of 23	



TYPICAL ELEVATIONS
SINGLE SPAN WITHOUT HEAD RECEPTOR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-03
Expiration Date: July 14, 2023
By: Manuel S. S. S.
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

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

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

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

date: 01-15-18

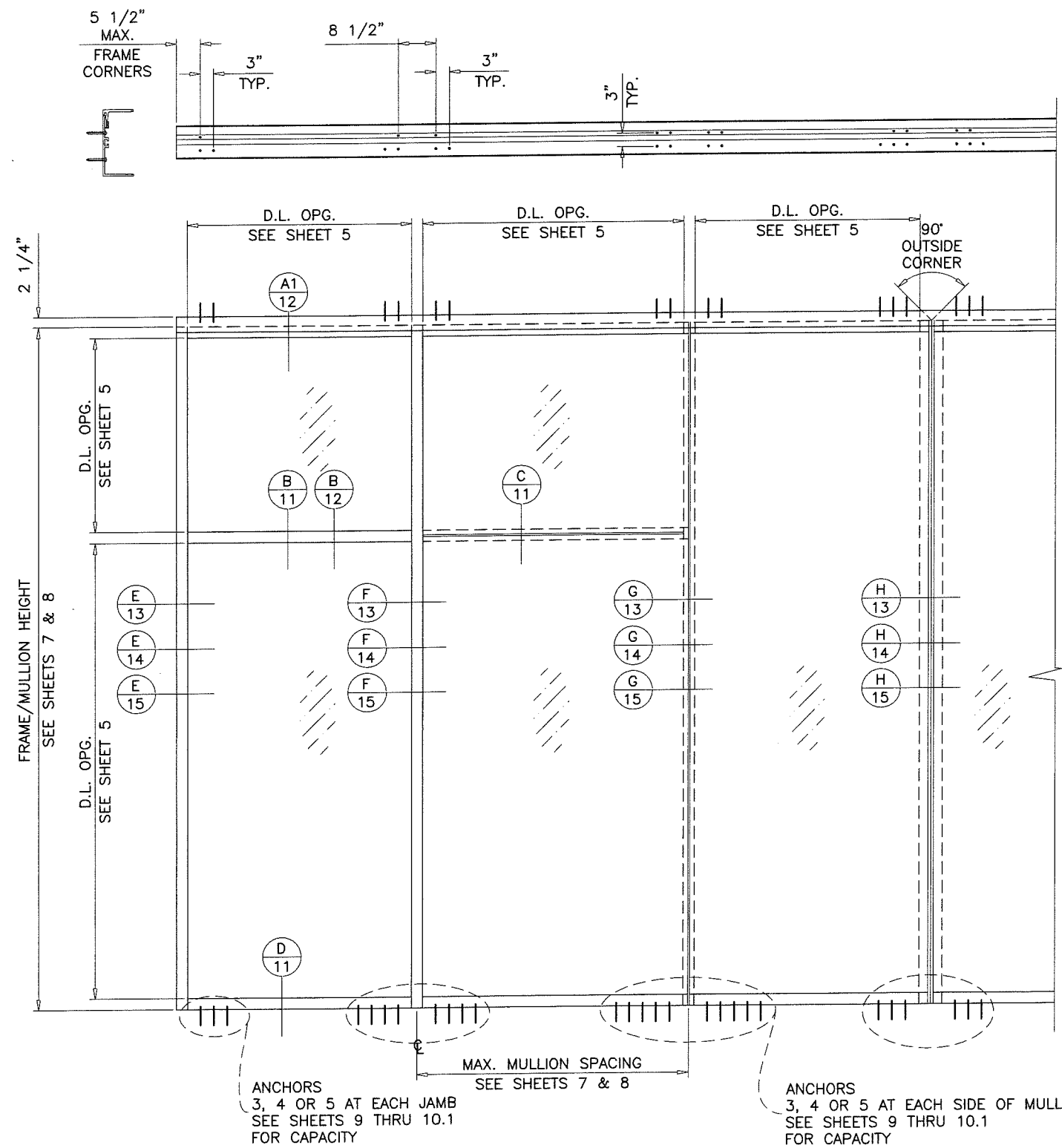
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dr. by: TARIQ

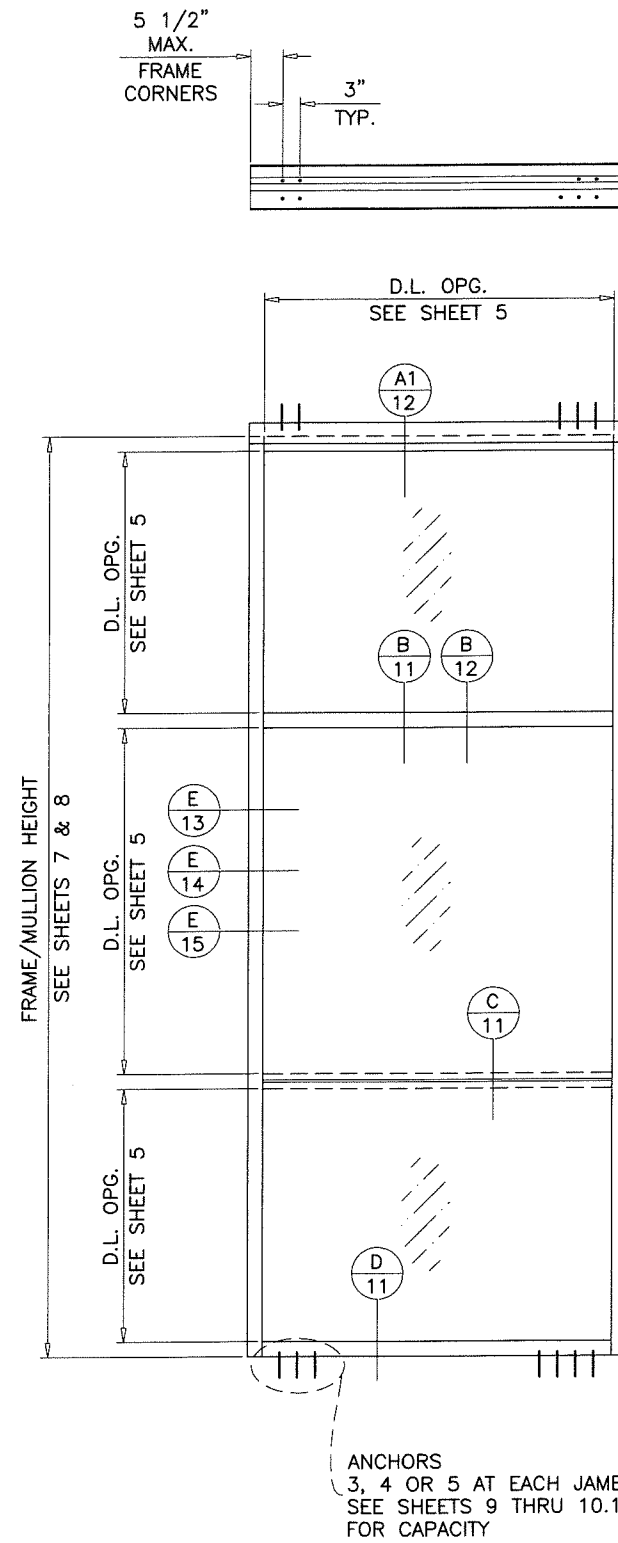
chk. by:

drawing no.
18-15D

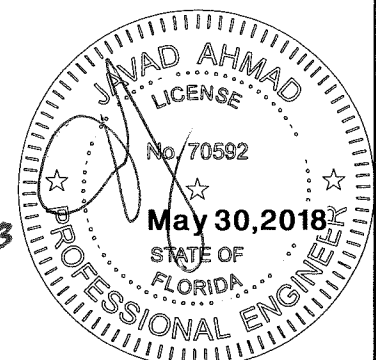
sheet 2 of 23



TYPICAL ELEVATIONS
SINGLE SPAN WITH HEAD RECEPTOR



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **18-0404.03**
Expiration Date **July 19, 2023**
By **Manuel Jara**
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\18-15D-TG

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

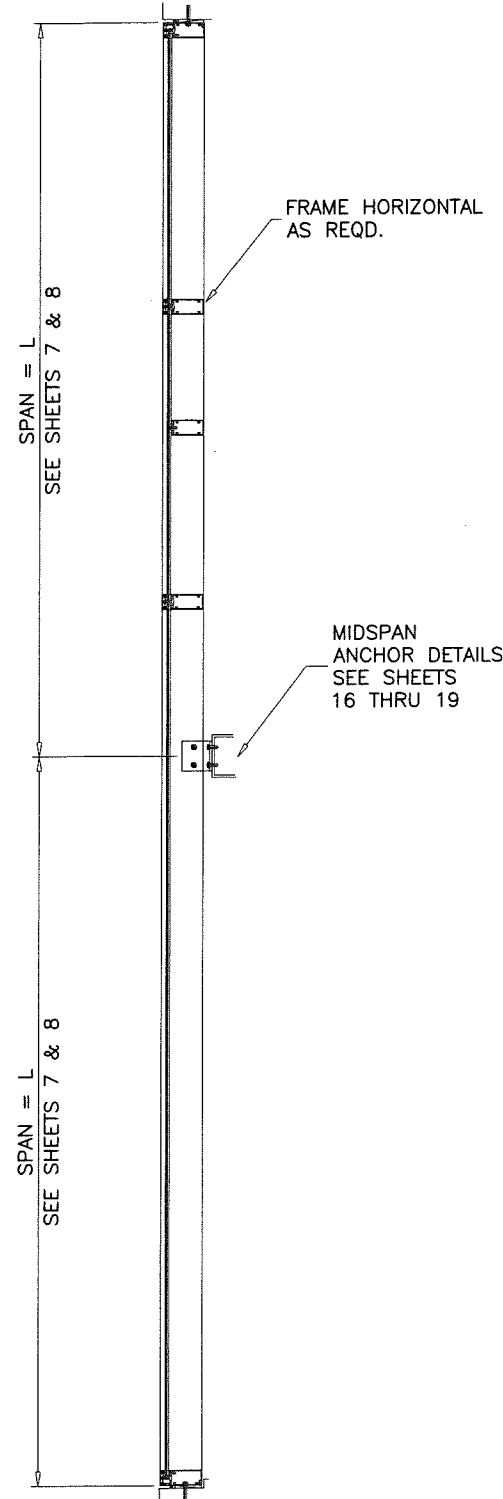
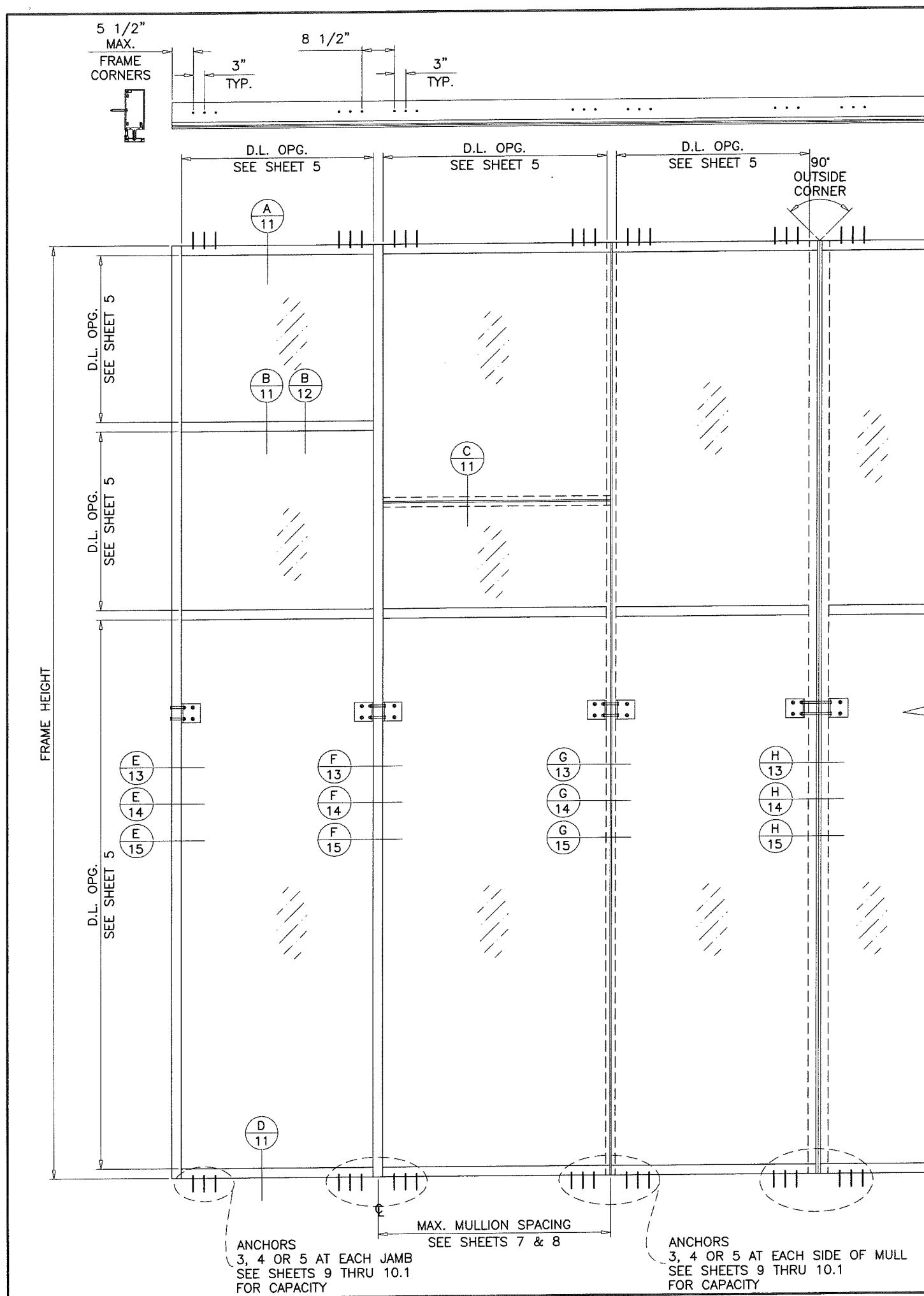
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description
A	05.25.18		NO CHANGE THIS SHEET

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

drawing no.
18-15D
sheet 3 of 23



TYPICAL ELEVATION
DOUBLE SPAN WITHOUT HEAD RECEPTOR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.03
Expiration Date July 19, 2023
By *Manuel Perez*
Miami Glass Product Company



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

COMP-ANL\18-15D-TG

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

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

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

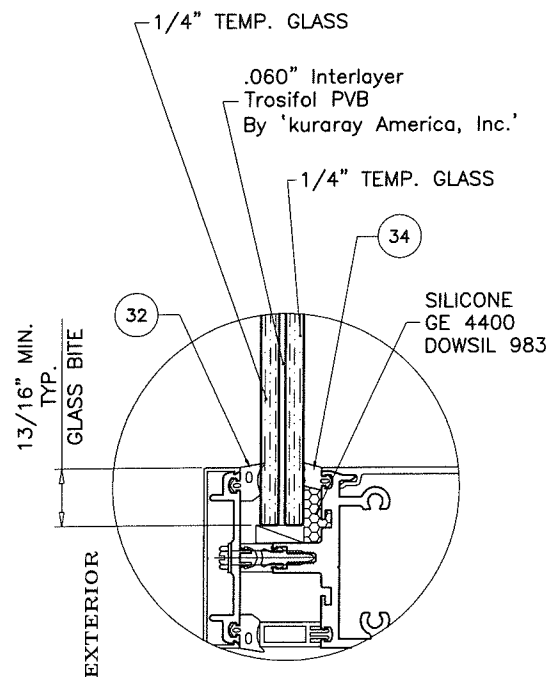
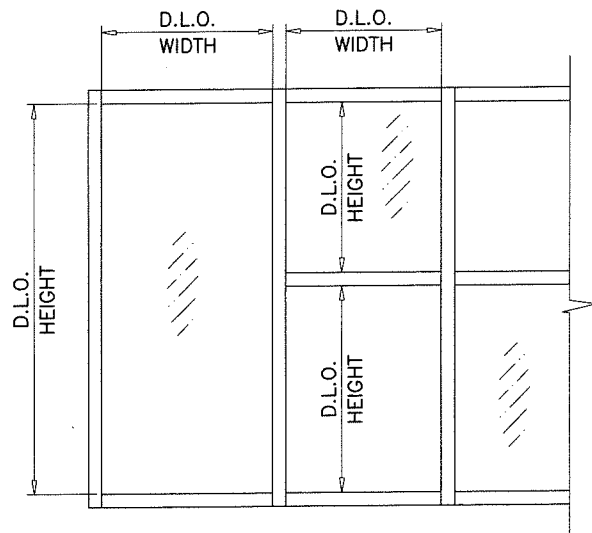
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dr. by: TARIQ
chk. by:

drawing no.
18-15D
sheet 4 of 23

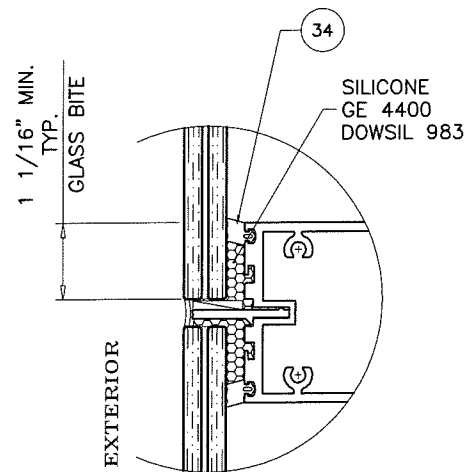
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
27-1/2"	79"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"	85"	86.7
75-1/2"		80.0
27-1/2"		130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"		86.7
27-1/2"	91"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"	97"	86.7
27-1/2"		130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
27-1/2"	103"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
27-1/2"	109"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5

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

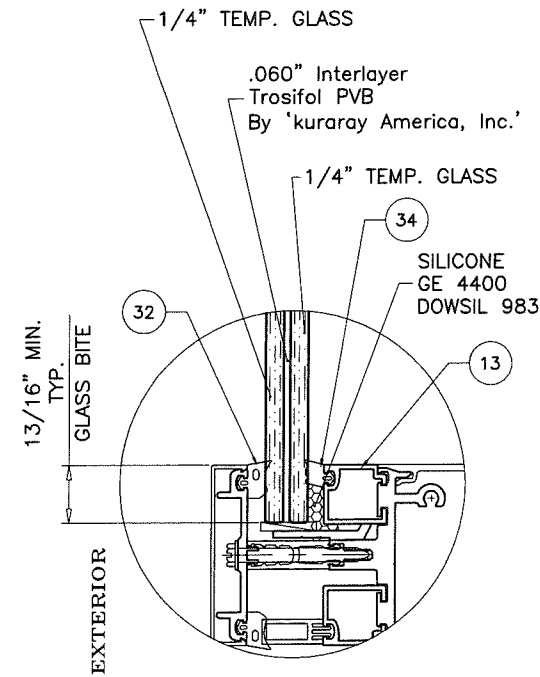
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



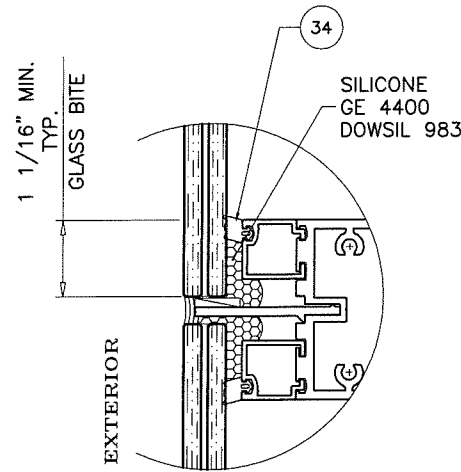
GLASS TYPE 'A'
9/16" LAM. GLASS



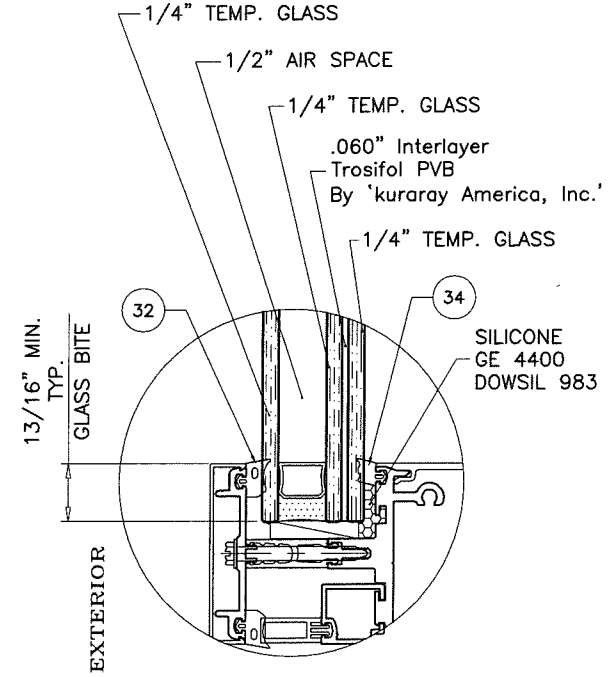
GLASS TYPE 'A'
AT SSG HORIZONTAL



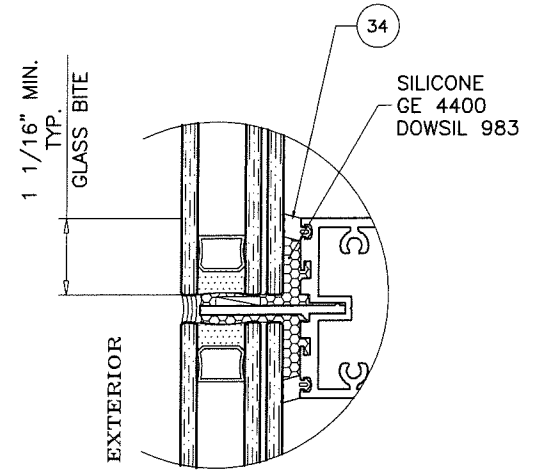
GLASS TYPE 'A'
9/16" LAM. GLASS



GLASS TYPE 'A'
AT SSG HORIZONTAL

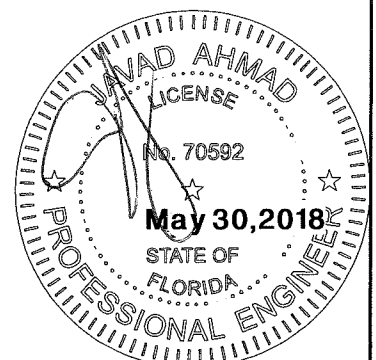


GLASS TYPE 'A1'
1-5/16" INSUL. LAM. GLASS



GLASS TYPE 'A1'
AT SSG HORIZONTAL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-03
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 18-15D-TG

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

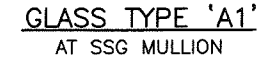
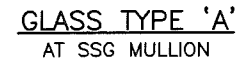
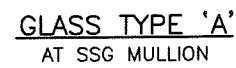
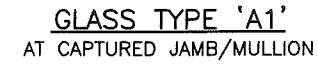
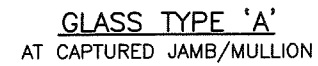
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

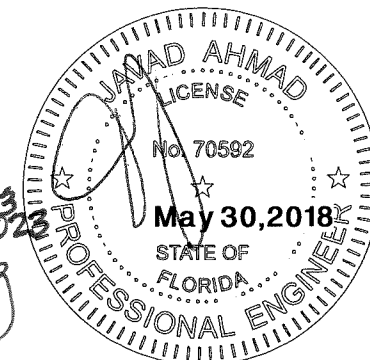
no	date	by	description
A	05.25.18		REV. PER RER COMMENTS

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

drawing no.
18-15D
sheet 5 of 23



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404-03
Expiration Date, July 19, 2023
By Marcel J. Jr.
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 (S.M.I.)

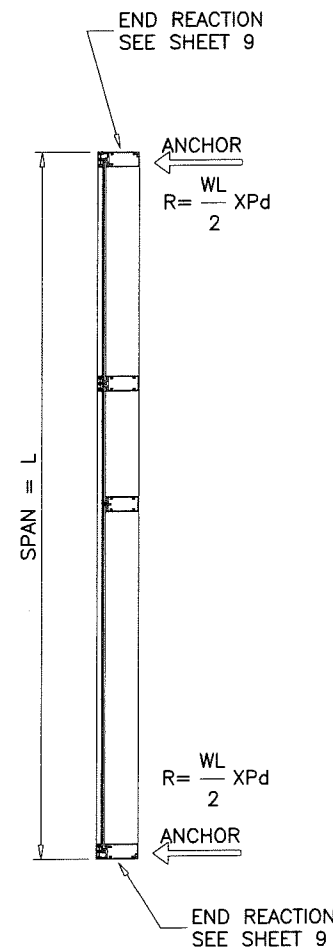
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151

FAX. (305) 638-5158

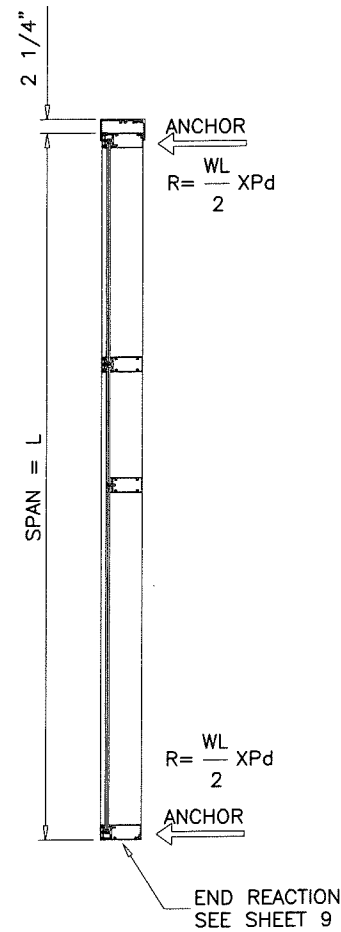
TEL. (305) 638-5151

COMP-ANL\18-15D-TG

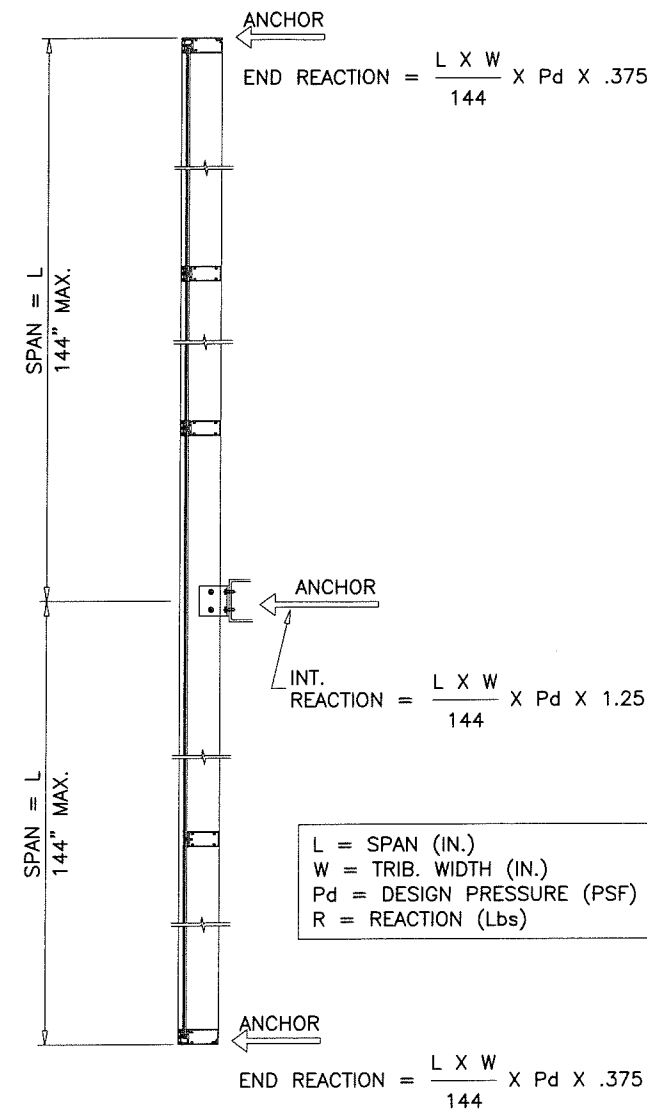
date: 01-15-18		revisions:	
drawing no. 18-15D		no. date by description	
sheet 6 of 23		A 05.25.18 REV. PER RER COMMENTS	
scale: 3/8" = 1"			
dr. by: TARIQ			
chk. by:			



SINGLE SPAN
WITHOUT RECEPTOR



SINGLE SPAN
WITH RECEPTOR



DOUBLE SPANS
WITHOUT RECEPTOR

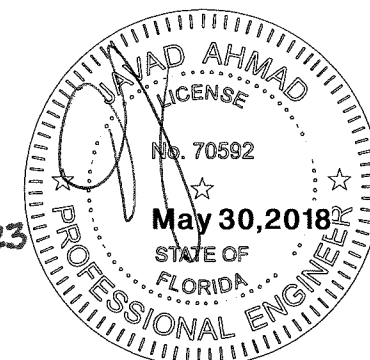
SEE CHART ON SHEET 8 FOR MULLION DESIGN LOAD CAPACITY.

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. 18-0404.03
Expiration Date July 31, 2023
By *Manuel Diaz*
Miami Code 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\18-15D-TG

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

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

date: 01-15-18
no: A
date: 05.25.18
scale: -
dr. by: TARIQ
chk. by:

revisions:

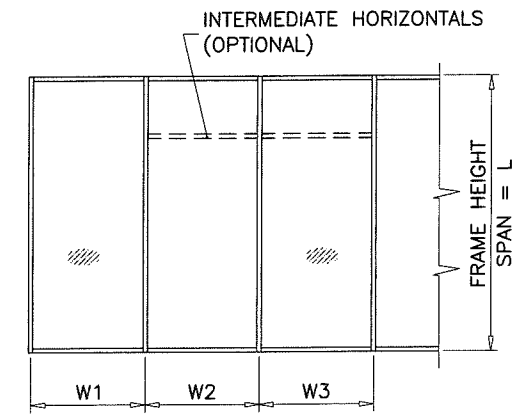
no	date	description
A	05.25.18	REV. PER RER COMMENTS

drawing no. **18-15D**
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"		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"	90"	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"		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"	96"	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"		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
78"		-	-	-	-	-
30"	102"	-	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"		-	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
72"		-	-	-	-	-
78"		-	-	-	-	-
30"	108"	-	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"		-	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
72"		-	-	-	-	-
78"		-	-	-	-	-
30"	114"	-	-	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0
42"		-	-	124.6	130.0	130.0
48"		-	-	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
66"		-	-	-	-	-
72"		-	-	-	-	-
78"		-	-	-	-	-
30"	120"	-	-	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"		-	-	87.5	99.5	130.0
58"		-	-	81.4	92.6	130.0
60"		-	-	-	-	-
66"		-	-	-	-	-
72"		-	-	-	-	-
78"		-	-	-	-	-

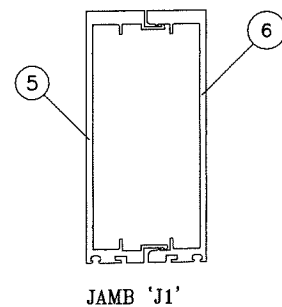
JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J2' MULL 'M2'	JAMB 'J3' MULL 'M3'	JAMB 'J4' MULL 'M4'	JAMB 'J4' MULL 'MC'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
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
54"		-	-	-	-	-
30"	144"	-	-	-	124.3	130.0
36"		-	-	-	103.6	130.0
42"		-	-	-	88.8	130.0
48"		-	-	-	77.7	130.0
54"		-	-	-	-	-

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

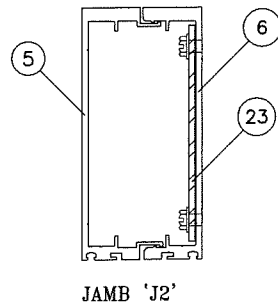


WIDTH (W) = W1
AT FRAME JAMB

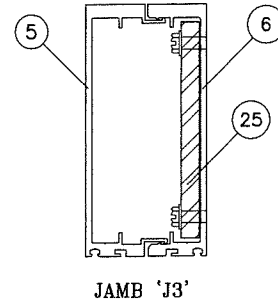
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



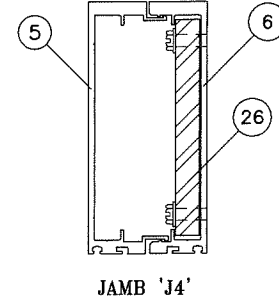
JAMB 'J1'



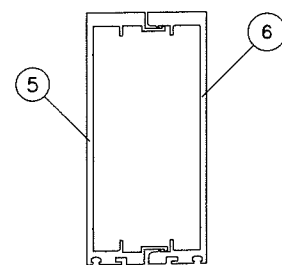
JAMB 'J2'



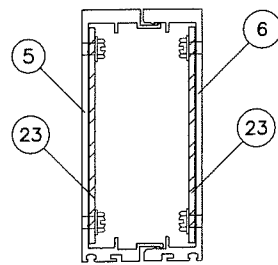
JAMB 'J3'



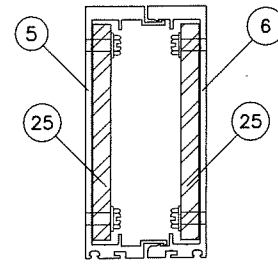
JAMB 'J4'



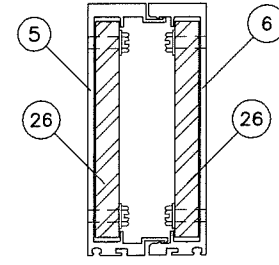
MULLION 'M1'



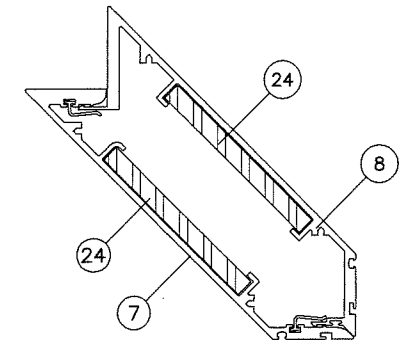
MULLION 'M2'



MULLION 'M3'



MULLION 'M4'



MULLION 'MC'

Ix IN^4	Sx IN^3
10.3928	3.7626

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	.8436	.375
TOTAL	1x ALUM + 1x STL X 2.9	12.815

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	2.5312	1.125
TOTAL	1x ALUM + 1x STL X 2.9	17.6606

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	3.375	1.5
TOTAL	1x ALUM + 1x STL X 2.9	20.0834

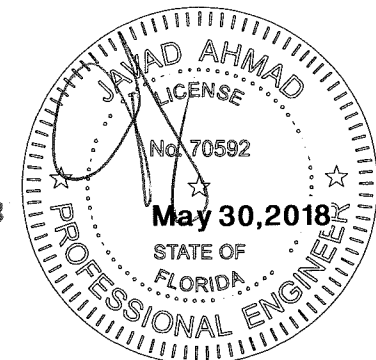
ALUMINUM	Ix IN^4	Sx IN^3
STEEL	15.973	4.045
TOTAL	1x ALUM + 1x STL X 2.9	21.7914

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.

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".

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-6404-93
Expiration Date July 19, 2023
By *Manuel S. Lopez*
Miami Dade Product Control



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

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

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

revisions: no. date by description

1 05.25.18 A REV. PER COMMENTS

date: 01-15-18 scale: - dr. by: TARIQ chk. by:

drawing no. 18-15D

sheet 8 of 23

ANCHOR LOAD CAPACITY – PSF (WITHOUT 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
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	122.9	62.9	83.9	104.9	49.3	65.7	82.1	97.1	129.4	46.3	61.7	77.1	36.4	48.6	60.7
30"	126"	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
36"		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
42"		97.0	129.3	130.0	82.8	110.4	130.0	64.8	86.4	108.0	127.7	130.0	60.8	81.1	101.4	47.9	63.9	79.8
48"		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
54"		75.4	100.6	125.7	64.4	85.8	107.3	50.4	67.2	84.0	99.3	130.0	47.3	63.1	78.9	37.3	49.7	62.1

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHOR LOAD CAPACITY - PSF (WITHOUT 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"	132"	129.6	130.0	130.0	110.6	130.0	130.0	86.6	115.5	130.0	130.0	130.0	81.3	108.4	130.0	64.0	85.4	106.7
36"		108.0	130.0	130.0	92.2	122.9	130.0	72.2	96.2	120.3	130.0	130.0	67.7	90.3	112.9	53.3	71.1	88.9
42"		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
48"		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
54"		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"	138"	124.0	130.0	130.0	105.8	130.0	130.0	82.9	110.5	130.0	130.0	130.0	77.8	103.7	129.6	61.2	81.6	102.1
36"		103.3	130.0	130.0	88.2	117.6	130.0	69.0	92.1	115.1	130.0	130.0	64.8	86.4	108.0	51.0	68.0	85.0
42"		88.5	118.1	130.0	75.6	100.8	126.0	59.2	78.9	98.6	116.6	130.0	55.5	74.1	92.6	43.7	58.3	72.9
48"		77.5	103.3	129.1	66.1	88.2	110.2	51.8	69.0	86.3	102.0	130.0	48.6	64.8	81.0	38.3	51.0	63.8
30"	144"	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
36"		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
42"		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
48"		74.3	99.0	123.8	63.4	84.5	105.6	49.6	66.2	82.7	97.8	130.0	46.6	62.1	77.6	36.7	48.9	61.1

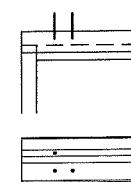
ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR) EXT.(+) & INT.(–)																		
NOMINAL DIMS.		ANCHORS TYPE 'AA'									ANCHORS TYPE 'BB'							
		1/4" SHIM			3/8" SHIM SPACE			1/2" SHIM SPACE			1/4" SHIM			3/8" SHIM SPACE			1/2" SHIM SPACE	
WIDTH (W)	FRAME HEIGHT	AA3	AA4	AA3	AA4	AA5	AA3	AA4	AA5	BB3	BB4	BB3	BB4	BB5	BB3	BB4	BB5	
30"	84"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	126.9	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	112.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.8	130.0	130.0
58"		130.0	130.0	130.0	130.0	130.0	105.1	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	105.0	130.0	130.0
60"		130.0	130.0	129.6	130.0	130.0	101.6	130.0	130.0	130.0	130.0	130.0	127.4	130.0	130.0	101.5	130.0	130.0
66"		130.0	130.0	117.8	130.0	130.0	92.4	123.2	130.0	130.0	130.0	130.0	115.8	130.0	130.0	92.3	123.0	130.0
72"		130.0	130.0	108.0	130.0	130.0	84.7	112.9	130.0	130.0	130.0	130.0	106.2	130.0	130.0	84.6	112.8	130.0
78"		124.2	130.0	99.7	130.0	130.0	78.2	104.2	130.0	130.0	130.0	130.0	98.0	130.0	130.0	78.1	104.1	130.0
84"	115.3	130.0	92.6	123.4	130.0	72.6	96.8	121.0	122.2	130.0	91.0	121.3	130.0	72.5	96.7	120.8		
30"	90"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	130.0	118.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
54"		130.0	130.0	130.0	130.0	130.0	105.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	118.4	130.0	130.0
58"		130.0	130.0	125.1	130.0	130.0	98.1	130.0	130.0	130.0	130.0	130.0	123.0	130.0	130.0	105.2	130.0	130.0
60"		130.0	130.0	121.0	130.0	130.0	94.8	126.5	130.0	130.0	130.0	130.0	118.9	130.0	130.0	98.0	126.3	130.0
66"		130.0	130.0	110.0	130.0	130.0	86.2	115.0	130.0	130.0	130.0	130.0	108.1	130.0	130.0	94.7	114.8	130.0
72"		125.6	130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	130.0	99.1	130.0	130.0	86.1	105.2	130.0
78"		115.9	130.0	93.0	124.1	130.0	73.0	97.3	121.6	122.8	130.0	91.5	122.0	130.0	72.9	97.1	121.4	
30"	96"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	130.0	111.2	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	111.0	130.0	130.0
54"		130.0	130.0	126.0	130.0	130.0	98.8	130.0	130.0	130.0	130.0	130.0	123.9	130.0	130.0	98.7	130.0	130.0
58"		130.0	130.0	117.3	130.0	130.0	92.0	122.6	130.0	130.0	130.0	130.0	115.3	130.0	130.0	91.9	122.5	130.0
60"		130.0	130.0	113.4	130.0	130.0	88.9	118.6	130.0	130.0	130.0	130.0	111.5	130.0	130.0	88.8	118.4	130.0
66"		128.5	130.0	103.1	130.0	130.0	80.8	107.8	130.0	130.0	130.0	130.0	101.3	130.0	130.0	80.7	107.6	130.0
72"		117.8	130.0	94.5	126.0	130.0	74.1	98.8	123.5	124.8	130.0	92.9	123.9	130.0	74.0	98.7	123.3	
30"		102"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"	130.0		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
42"	130.0		130.0	130.0	130.0	130.0	119.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	119.4	130.0	130.0
48"	130.0		130.0	130.0	130.0	130.0	104.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	104.5	130.0	130.0
54"	130.0		130.0	118.6	130.0	130.0	93.0	124.0	130.0	130.0	130.0	130.0	116.6	130.0	130.0	92.9	123.8	130.0
58"	130.0		130.0	110.4	130.0	130.0	86.6	115.4	130.0	130.0	130.0	130.0	108.5	130.0	130.0	86.5	115.3	130.0
60"	130.0		130.0	106.7	130.0	130.0	83.7	111.6	130.0	130.0	130.0	130.0	104.9	130.0	130.0	83.6	111.4	130.0
66"	120.9		130.0	97.0	129.4	130.0	76.1	101.4	126.8	128.1	130.0	95.4	127.2	130.0	76.0	101.3	126.6	
30"	108"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	130.0	112.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.8	130.0	130.0
48"		130.0	130.0	126.0	130.0	130.0	98.8	130.0	130.0	130.0	130.0	130.0	123.9	130.0	130.0	98.7	130.0	130.0
54"		130.0	130.0	112.0	130.0	130.0	87.8	117.1	130.0	130.0	130.0	130.0	110.1	130.0	130.0	87.7	116.9	130.0
58"		129.9	130.0	104.3	130.0	130.0	81.8	109.0	130.0	130.0	130.0	130.0	102.5	130.0	130.0	81.7	108.9	130.0
60"		125.6	130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	130.0	99.1	130.0	130.0	78.9	105.2	130.0
66"		114.2	130.0	91.6	122.2	130.0	71.9	95.8	119.8	121.0	130.0	90.1	120.1	130.0	71.8	95.7	119.6	
30"	114"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	124.8	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	124.6	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	107.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	106.8	130.0	130.0
48"		130.0	130.0	119.4	130.0	130.0	93.6	124.8	130.0	130.0	130.0	130.0	117.3	130.0	130.0	93.5	124.6	130.0
54"		130.0	130.0	106.1	130.0	130.0	83.2	110.9	130.0	130.0	130.0	130.0	104.3	130.0	130.0	83.1	110.8	130.0
58"		123.1	130.0	98.8	130.0	130.0	77.5	103.3	129.1	130.0	130.0	130.0	97.1	129.5	130.0	77.4	103.1	128.9
60"		119.0	130.0	95.5	127.3	130.0	74.9	99.8	124.8	126.1	130.0	93.9	125.2	130.0	74.8	99.7	124.6	
30"		120"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"	130.0		130.0	130.0	130.0	130.0	118.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	118.4	130.0	130.0
42"	130.0		130.0	129.6	130.0	130.0	101.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	101.5	130.0	130.0
48"	130.0		130.0	113.4	130.0	130.0	88.9	118.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	88.8	118.4	130.0
54"	125.6		130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	130.0	99.1	130.0	130.0	78.9	105.2	130.0
58"	116.9		130.0	93.8	125.1	130.												

ANCHOR LOAD CAPACITY - PSF (WITH 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	130.0
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"		89.0	119.0	130.0	130.0
72"	96"	82.0	109.0	130.0	130.0
78"		76.0	101.0	126.0	130.0
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"		95.0	127.0	130.0	130.0
60"		92.0	123.0	130.0	130.0
66"	102"	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"		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"	108"	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"		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"	114"	74.0	99.0	124.0	130.0
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"		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"	120"	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"		76.0	102.0	127.0	130.0
30"	126"	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

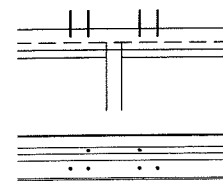
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHOR LOAD CAPACITY - PSF (WITH 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	130.0
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

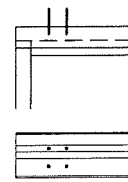
CHART ABOVE SHOWS FRAME HEIGHTS FOR CURTAIN WALL WITHOUT HEAD RECEPTOR.
FOR CURTAIN WALL WITH HEAD RECEPTORS OVERALL HEIGHT = FRAME HT. FROM CHART + 2-1/4".



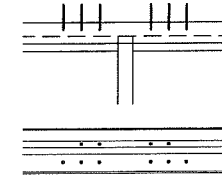
AA3, BB3



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/SILL)

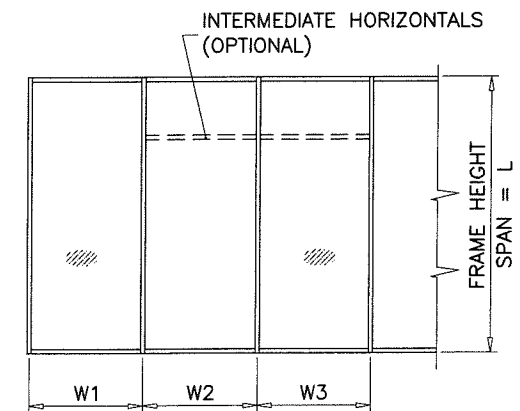
ANCHOR EDGE DISTANCES
INTO CONCRETE = 3" MIN.

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.

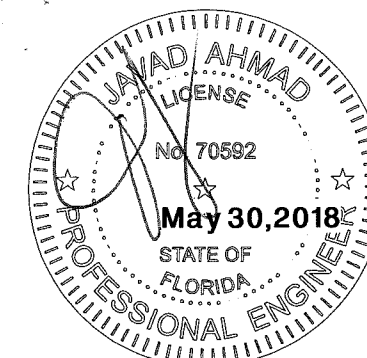
CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.



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. 18-0404.03
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

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

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

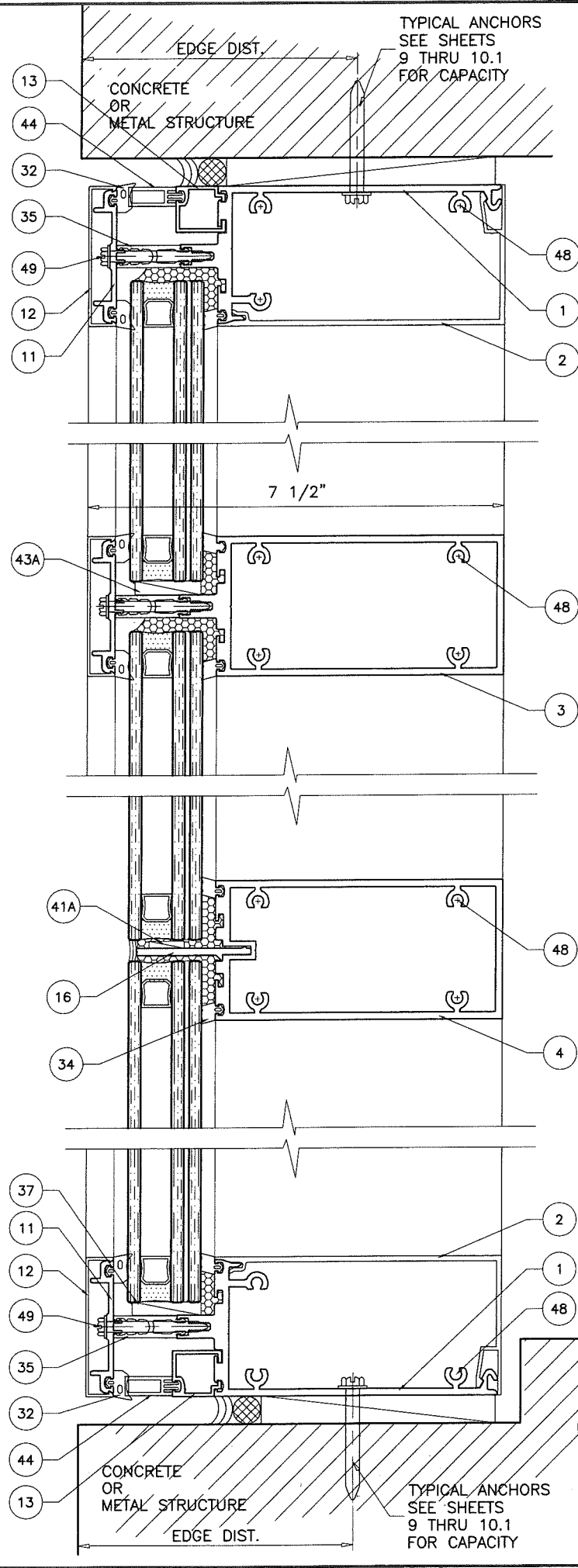
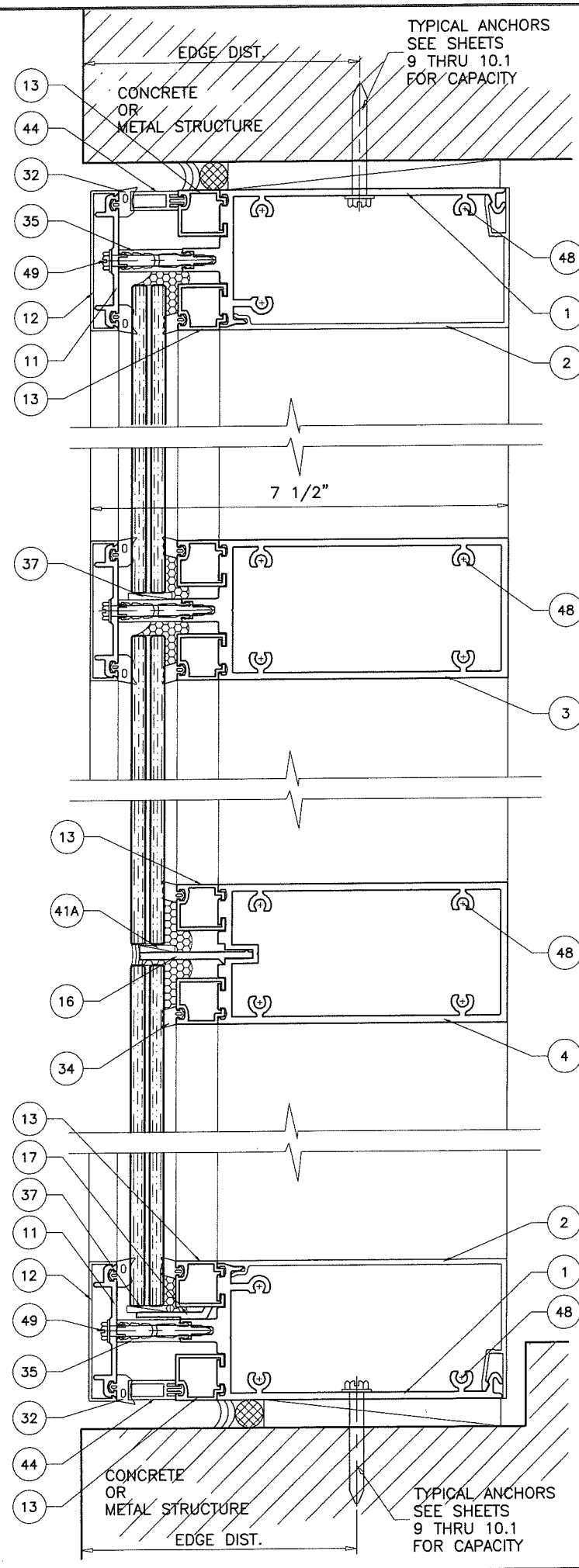
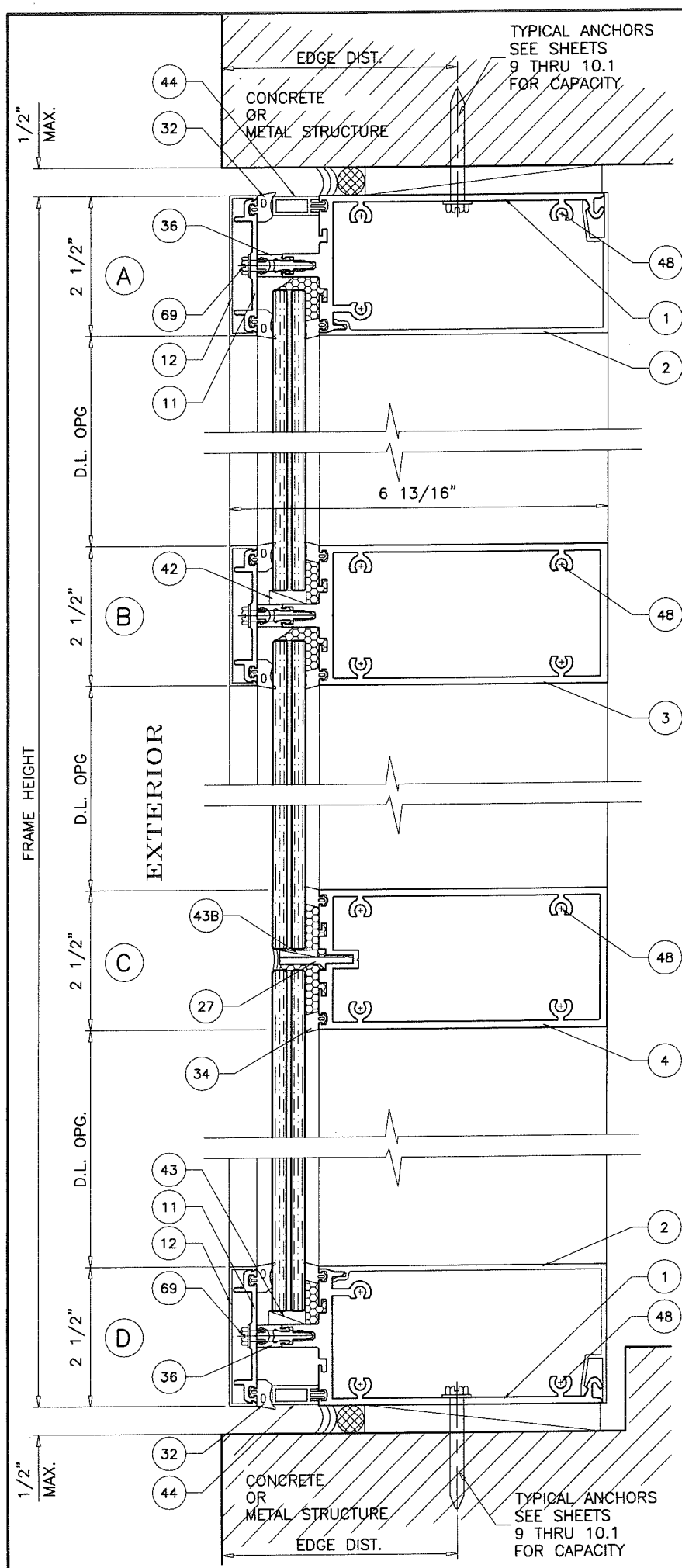
revisions:

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A	05.25.18		NO CHANGE THIS SHEET

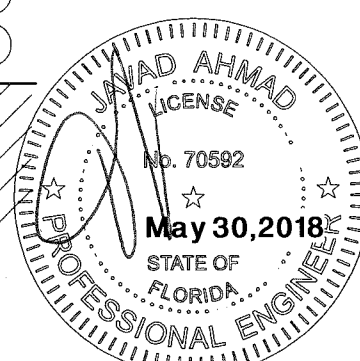
date: 01-15-18
scale: -
dr. by: TARIQ
chk. by:

drawing no.
18-15D
sheet 10.1 of 23

COMP-ANL\18-15D-TG



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0404.03
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 (S.M.I.)

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3550 N.W. 49 STREET
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revisions:		date:	01-15-18
no.	date	description	by
A	05.25.18	REV. PER COMMENTS	

scale: 3/8" = 1"

dr. by: TARIQ

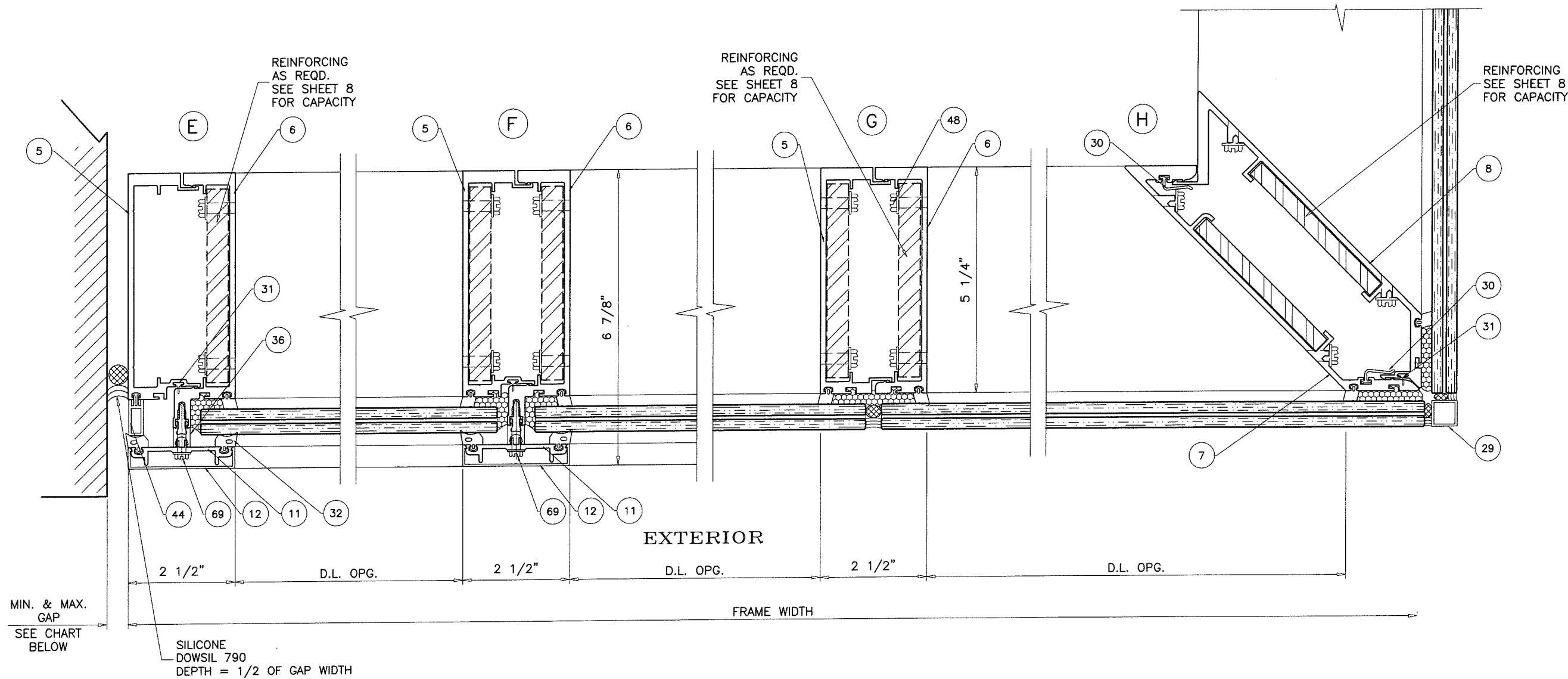
drawing no.

18-15D

sheet 11 of 23

chk. by:

305) 262-6978



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 & WINDOWALL 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
 Acceptance No. 18-0404.03
 Expiration Date July 19, 2023
 By *Michael Saez*
 Miami Dade Product Control



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 9360 SUNSET DRIVE, SUITE 220
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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

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

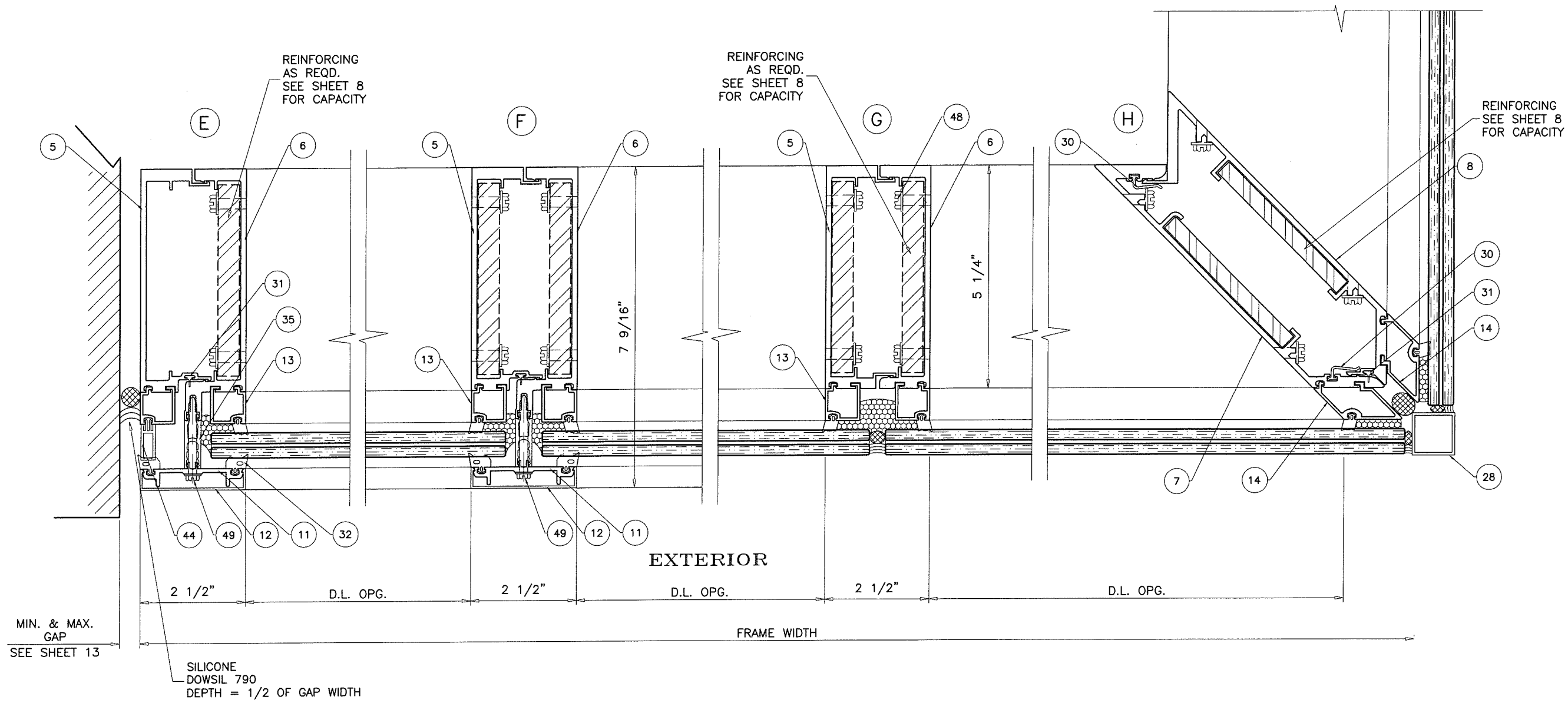
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 dr. by: TARIQ
 chk. by:

drawing no.
18-15D

sheet 13 of 23



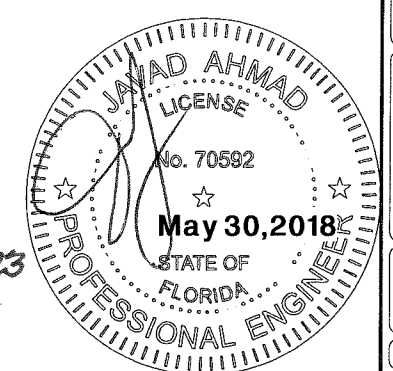
MIN. & MAX.
GAP
SEE SHEET 13

SILICONE
DOWSIL 790
DEPTH = 1/2 OF GAP WIDTH

EXTERIOR

FRAME WIDTH

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-6404.03
Expiration Date July 19, 2023
By Muhammad J. Tariq
Miami Dade Product Control



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C.A.N. 3538

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

TECNOGLASS, LLC
3550 N.W. 49 STREET
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revisions:	
no.	date by description
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date: 01-15-18

scale: 3/8" = 1"

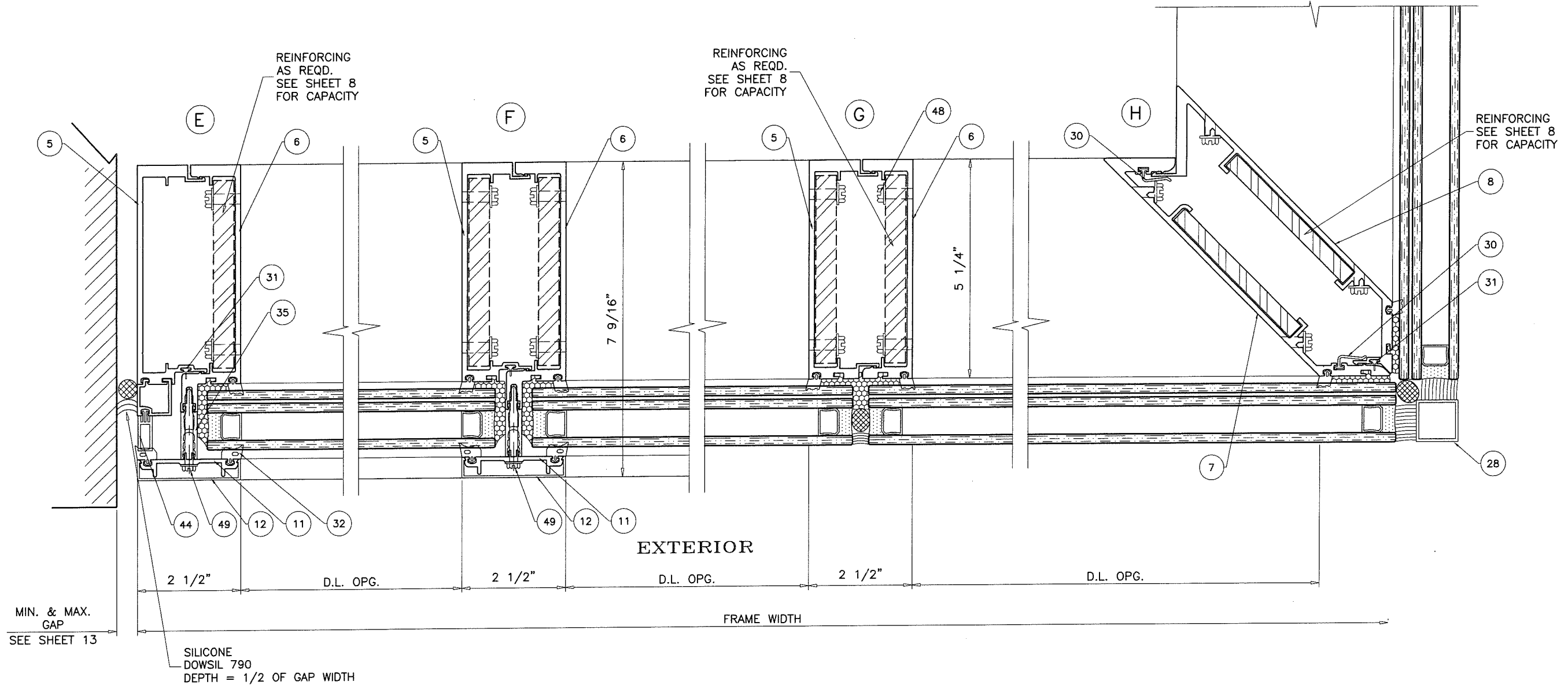
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chk. by:

drawing no.

18-15D

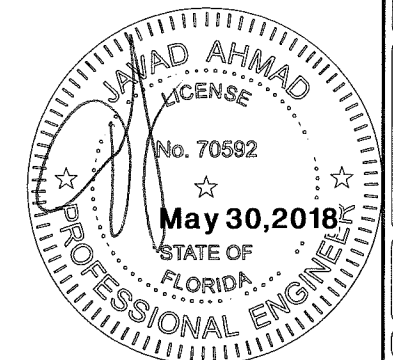
sheet 14 of 23



MIN. & MAX.
GAP
SEE SHEET 13

SILICONE
DOWSIL 790
DEPTH = 1/2 OF GAP WIDTH

PRODUCT REVISED
to comply with the Florida
Building Code
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By Manuel Perez
Miami Dade Product Control



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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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(C.A.N. 3538)

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

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18-15D

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.

18-15D

sheet 15 of 23



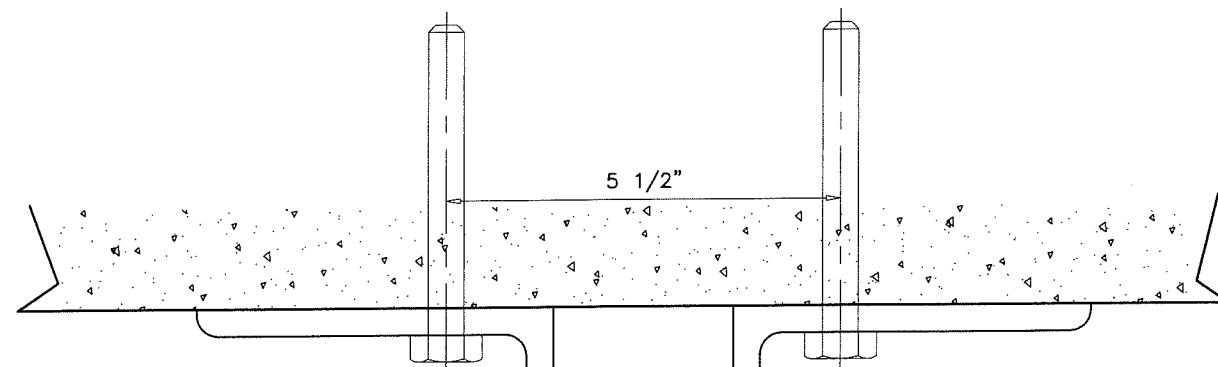
(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

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

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

1 1/2"
MAX.

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

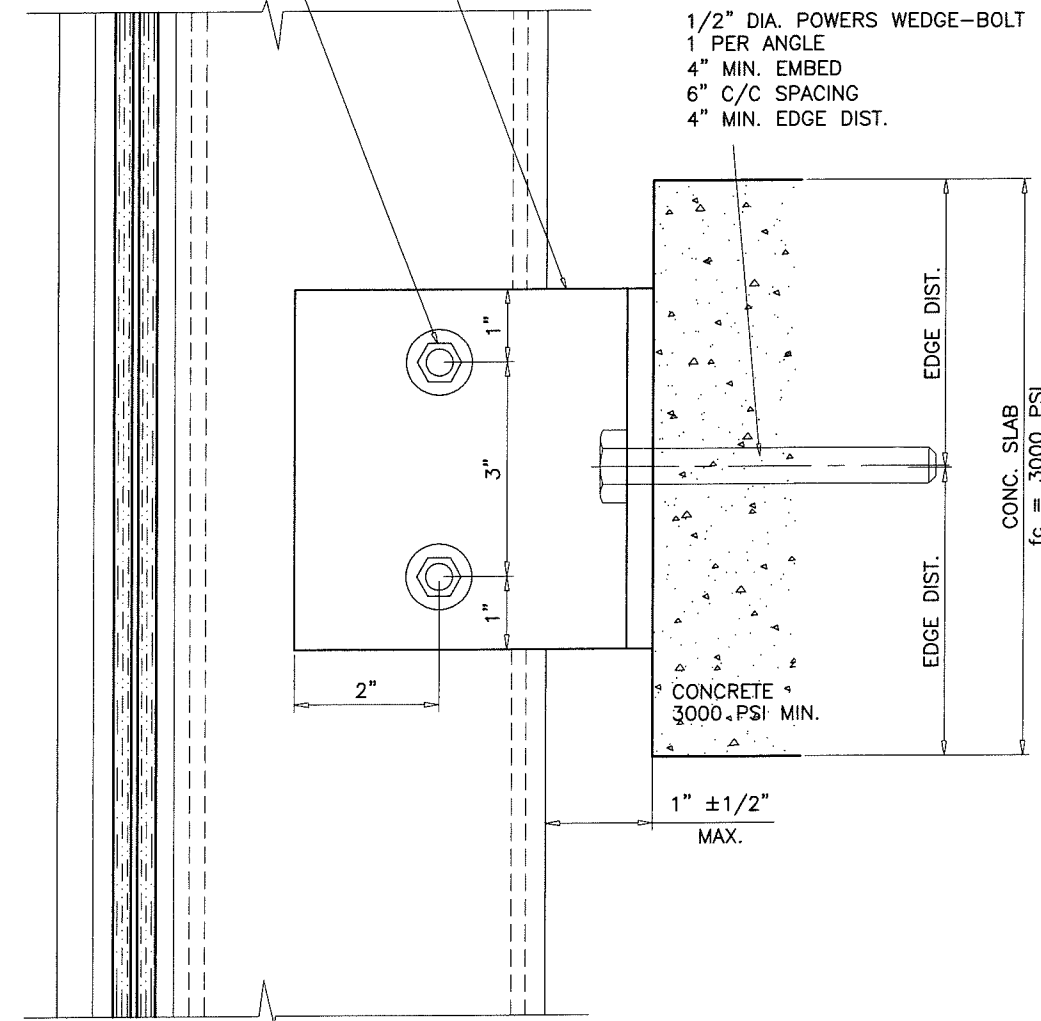
$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 11 \text{ PSF}$$

**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.



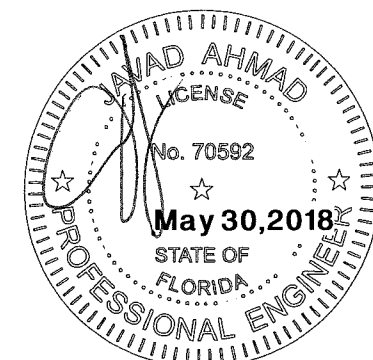
CONCRETE
3000 PSI MIN.

1" ± 1/2"
MAX.

CONC. SLAB
f_c = 3000 PSI

INTERMEDIATE ANCHORS

PRODUCT REVISED
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Expiration Date July 19, 2023
By *Manuel Perez*
Miami Date Product Control



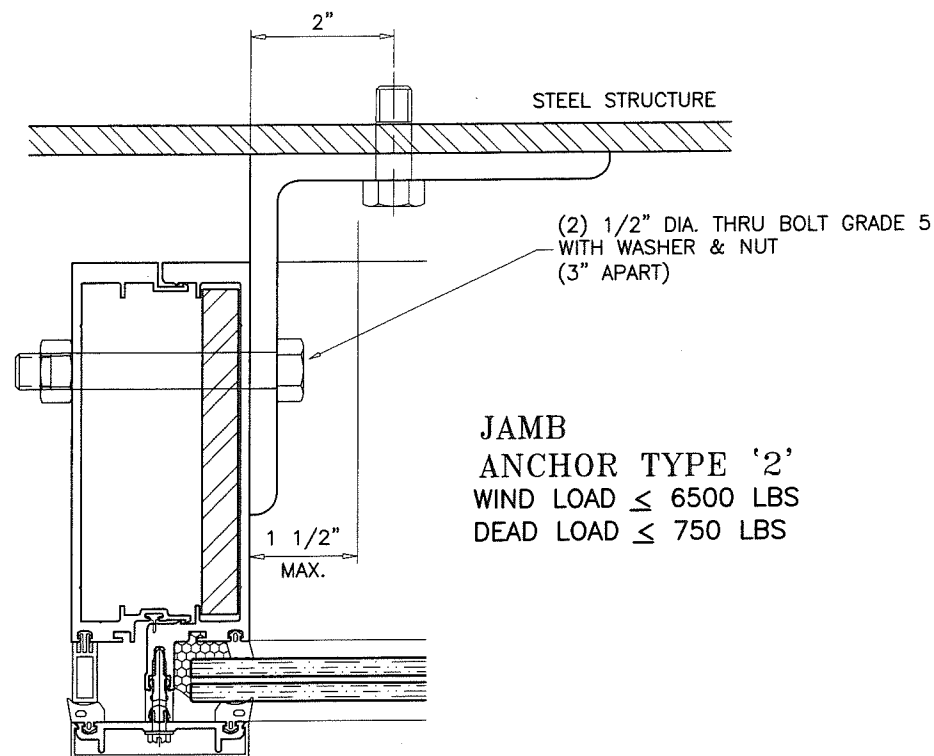
afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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TEL. (305) 264-8100 FAX. (305) 262-6978
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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

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

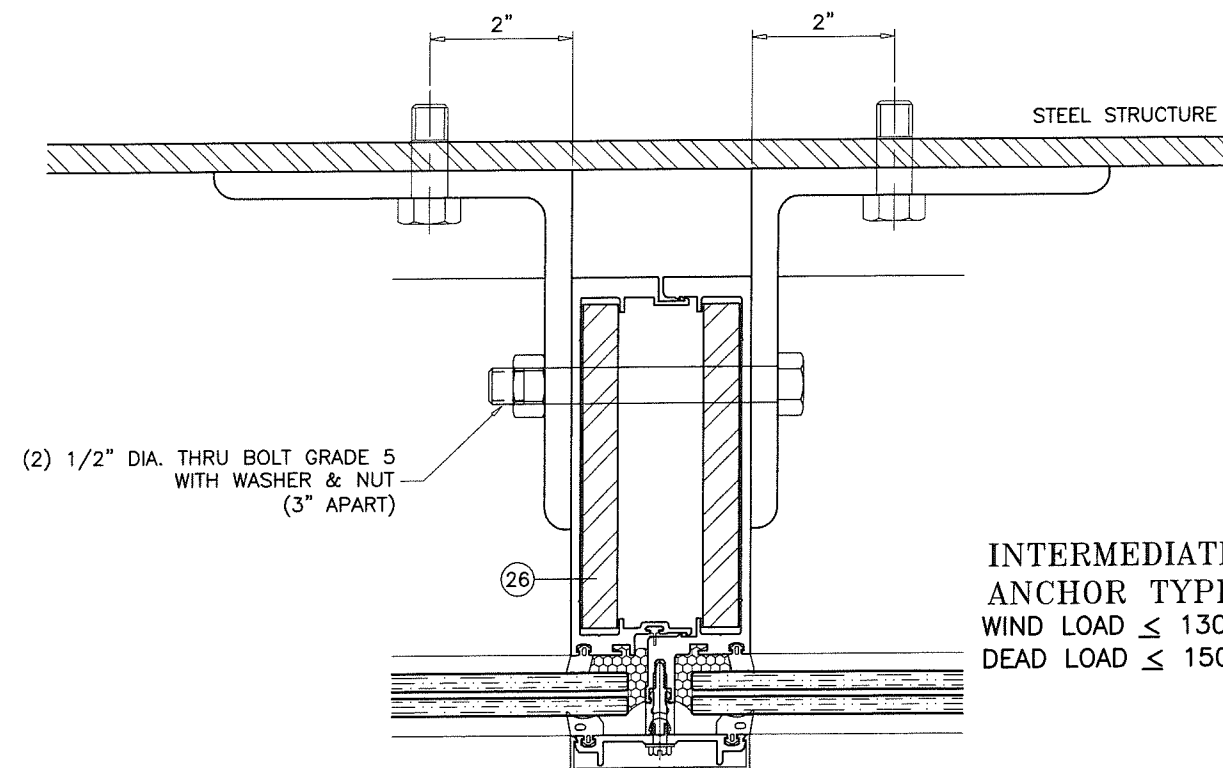
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		A	05.25.18		REV. PER COMMENTS
date:	01-15-18	scale:	3/8" = 1"	dr. by:	TARIQ
				chk. by:	
drawing no.		18-15D			
sheet		16 of 23			



DETAIL '4A' (ALT.)

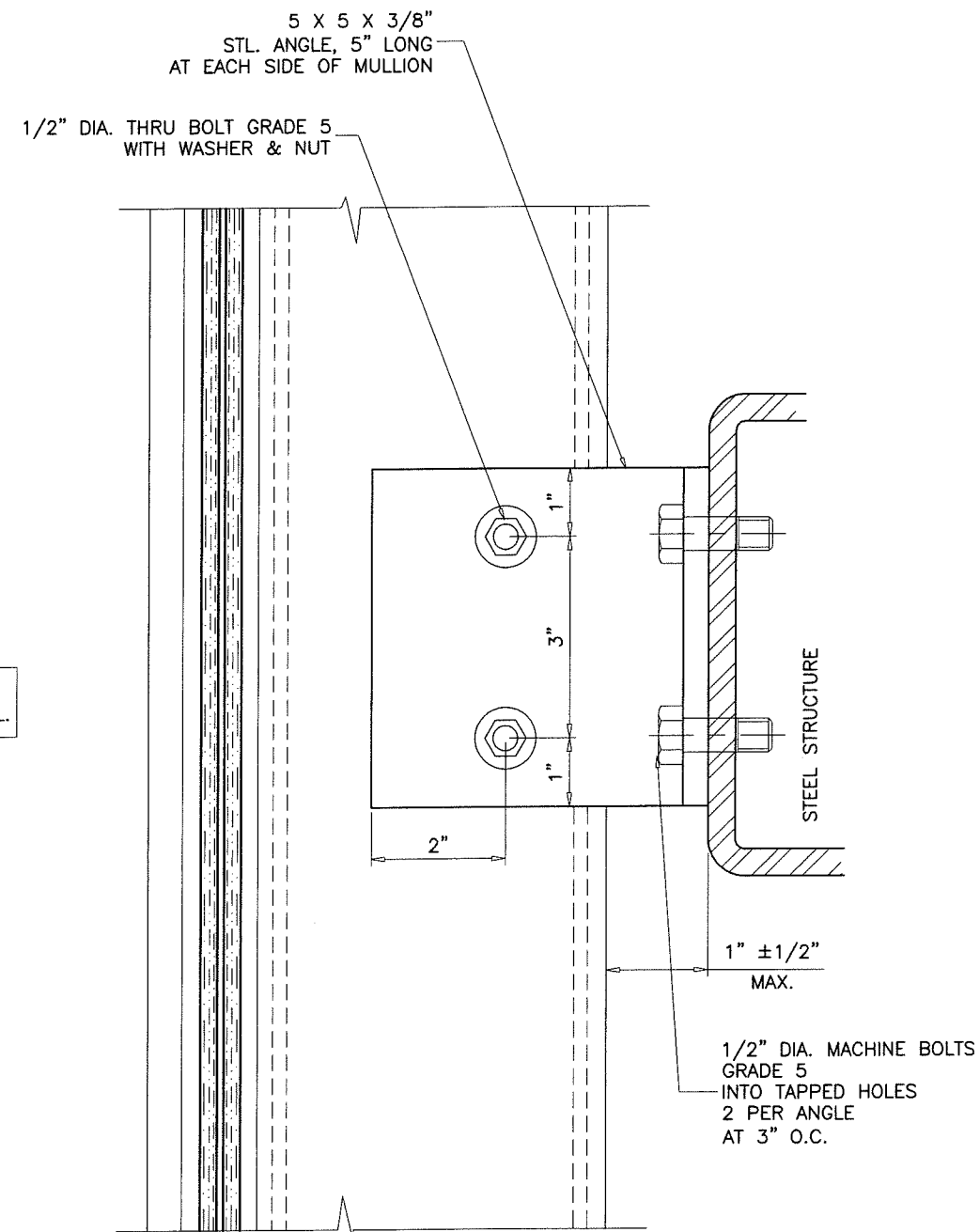
JAMB
ANCHOR TYPE '2'
WIND LOAD $\leq$ 6500 LBS
DEAD LOAD $\leq$ 750 LBS

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. COMMERCIAL STEEL



INTERMEDIATE ANCHORS

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By *Manuel Perez*
Miami Trade Product Control



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

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

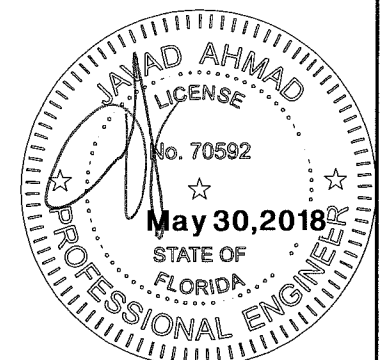
drawing no.
18-15D
sheet 17 of 23

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



MIDSPAN ANCHOR
INTO 3000 PSI MIN. CONCRETE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0404.03
Expiration Date July 19, 2023
By Manuel Perez
Miami/Dade Product Control



date: 01-15-18		revisions:	
drawing no. 18-15D		no	by description
sheet 18 of 23		A	05.25.18 REV. PER RER COMMENTS
scale: 3/8" = 1"			
dr. by: TARIQ			
chk. by:			

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

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

FAX. (305) 638-5158

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

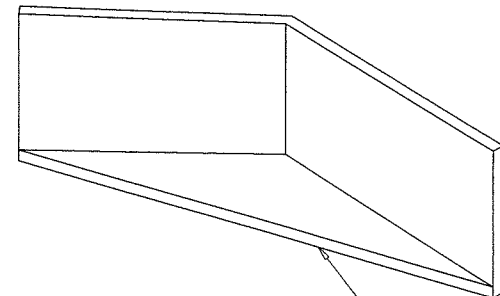
Figure 1

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Figure 1

INTERMEDIATE ANCHOR

WIND LOAD $\leq$ 6500 LBS (EACH SIDE)
DEAD LOAD $\leq$ 750 LBS (EACH SIDE)



3/8" THK. GUSSET PLATE
ATTACHED TO BENT PLATE
W/ 5/16" X 1" WELDS AT 2" O.C.
BOTH SIDES

1" $\pm$ 1/2"
MAX.

METAL STRUCTURE

1/4" FILLET WELDS CONT.
AT TOP & BOTTOM
WELDING ELECTRODE E-70

5/16"
MIN.

1/2" DIA. MACHINE BOLTS
GRADE 5
INTO TAPPED HOLES
2 PER PLATE
AT 3" O.C.

2"

5 X 9 X 3/8"
STEEL BENT PLATE, 5" LONG
AT EACH SIDE OF MULLION

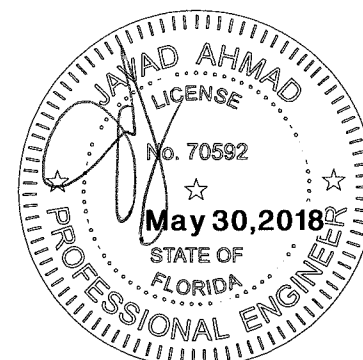
(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
3" C/C SPACING

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

CORNER MULLION ANCHORS

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

PRODUCT REVISED
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Expiration Date July 1, 2023
By *Manuel Deras*
Miami Dade Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP-ANL\18-15D-TG

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

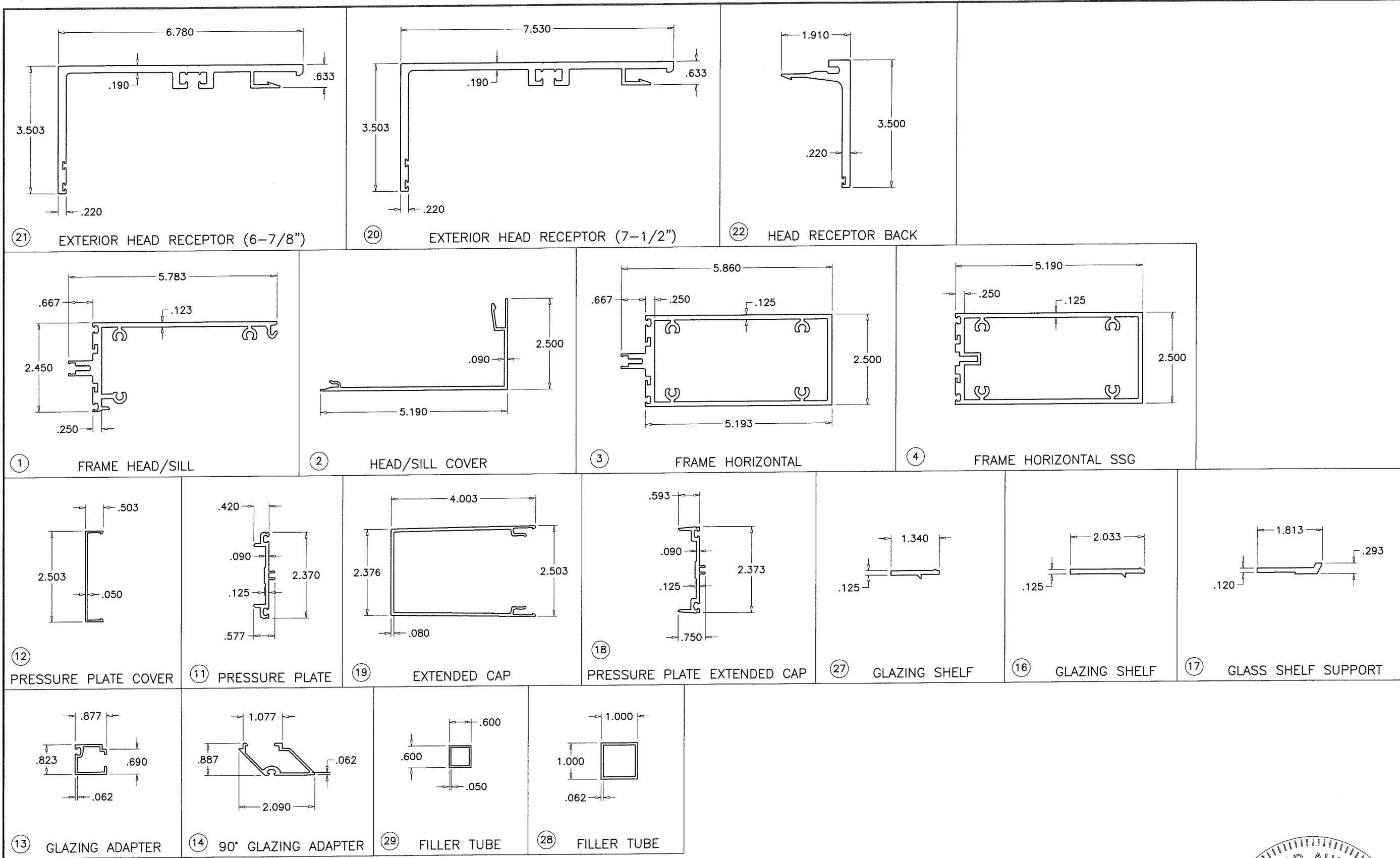
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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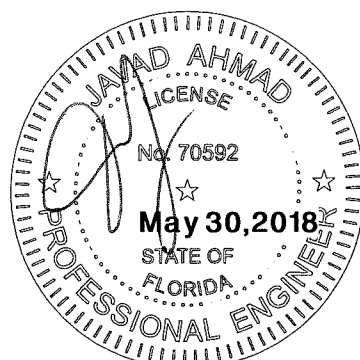
drawing no.
18-15D

sheet 19 of 23

May 30, 2018



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Acceptance No. 18-0404.03
Expiration Date July 19, 2023
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Miami Dade Product Control



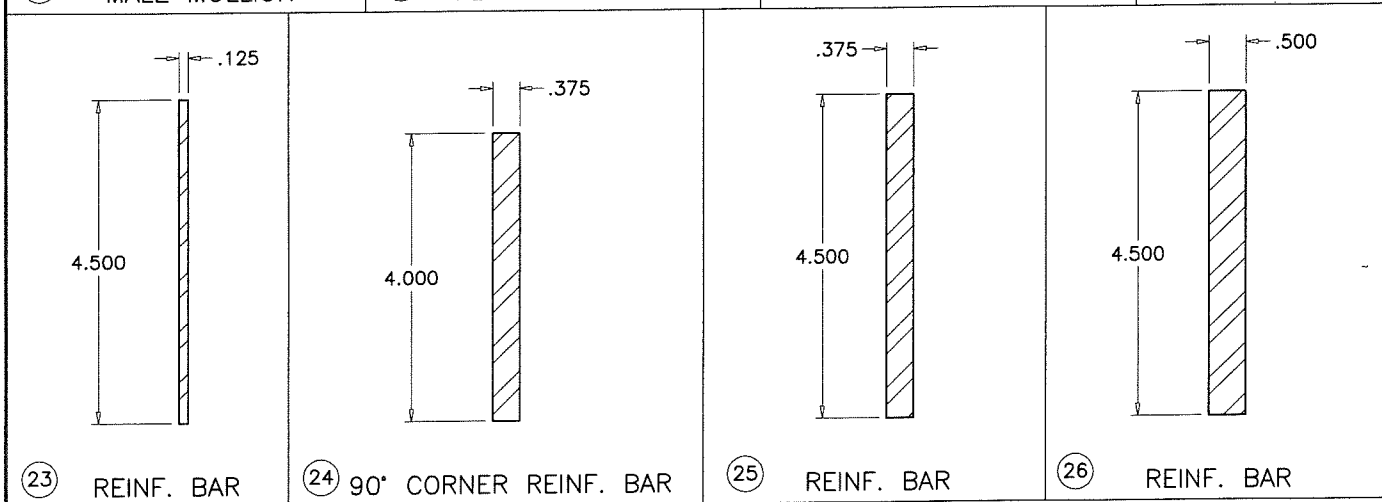
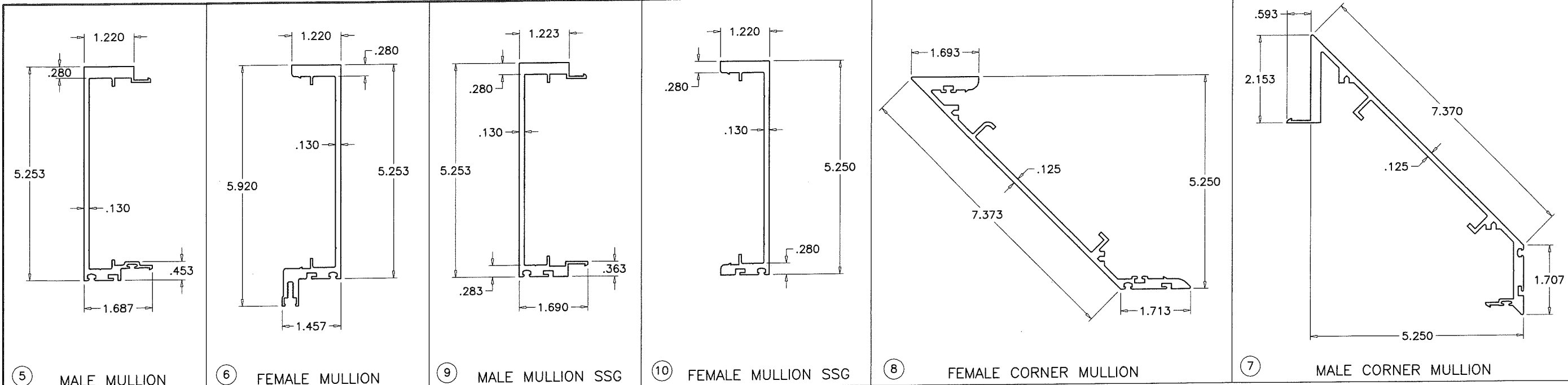
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

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

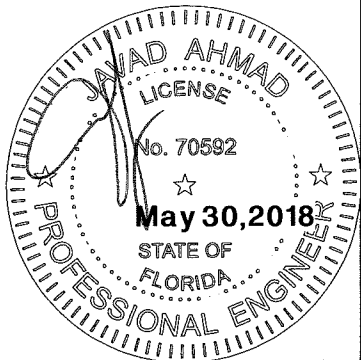
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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drawing no. 18-15D
sheet 20 of 23



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By Manuel Perez
Miami Made Product Company



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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18-15D

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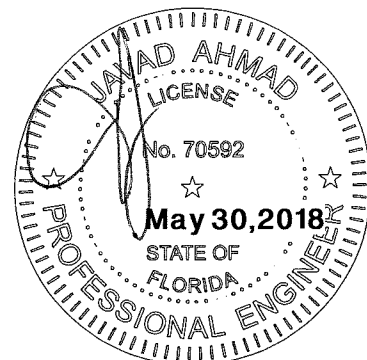
drawing no.

18-15D

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	POLYMIDE	-
36	-	AS REQD.	9/16" CW SPACER	POLYMIDE	-
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	-

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By Manuel Perez
Miami Dade Product Control



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

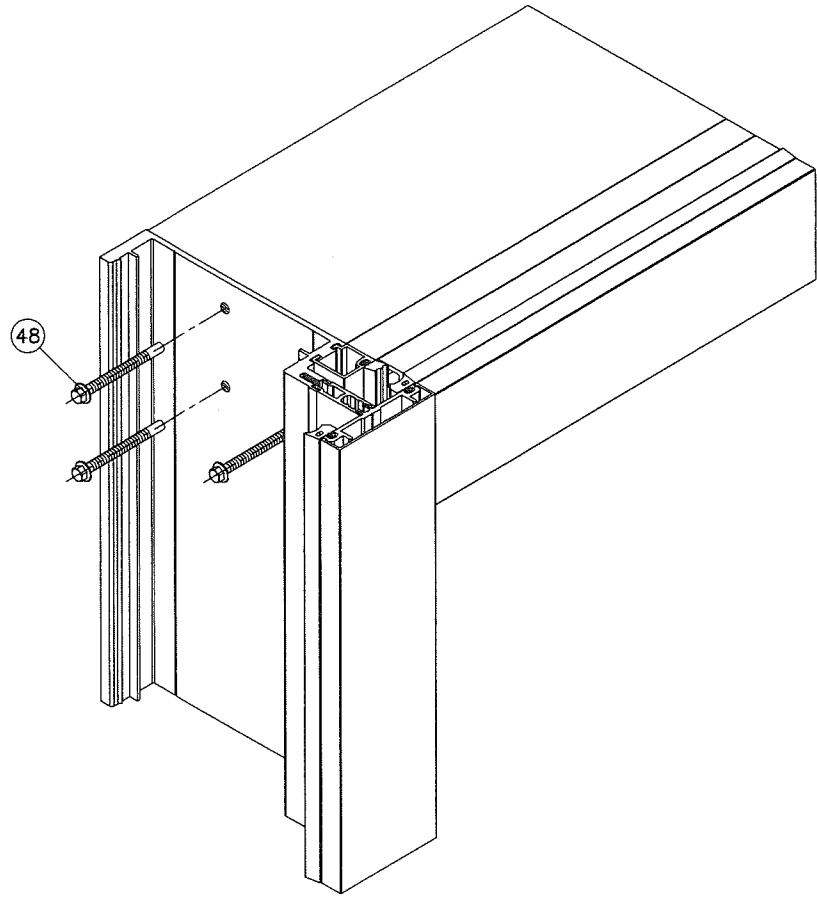
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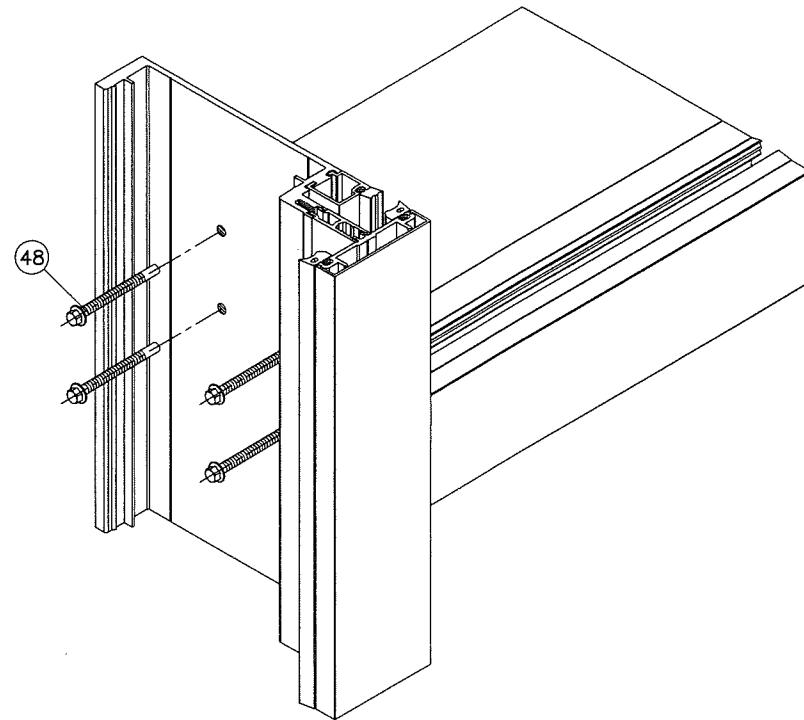
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sheet 22 of 23

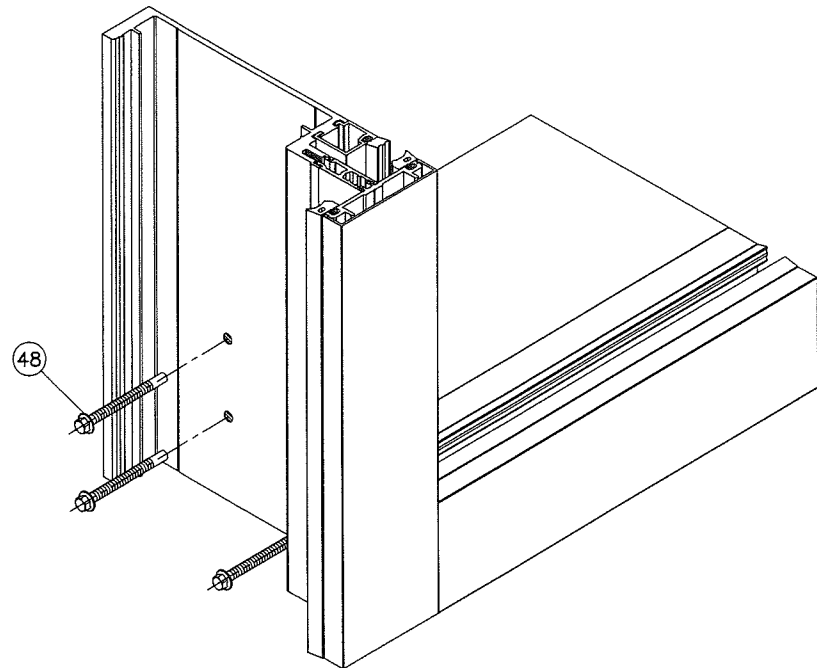
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FRAME TOP CORNER

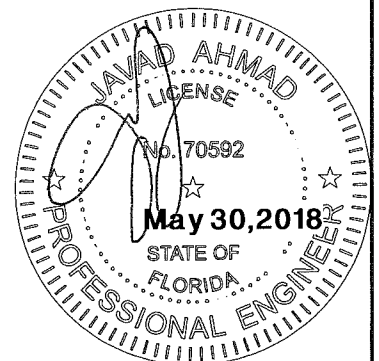


FRAME HORIZONTAL CORNER



FRAME BOTTOM CORNER

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Miami Dade Product Control



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