MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI–DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Glasswall, LLC
3550 NW 49th 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 "101L" Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W05–28**, titled "Series 101L Alum Window Wall System (L.M.I.)", sheets 1 through 8 of 8, dated 06/16/05 with revision "**D**" dated 09/18/13, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami–Dade County Product Control Section Renewal 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, city, state, series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

REVISION 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. 08–1021.07** and consists of this page 1 and evidence pages E–1, E–2 and E–3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

Glasswall, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05–28**, titled "Series 101L Alum Window Wall System (L.M.I.)", sheets 1 through 8 of 8, dated 06/16/05 with revision "**D**" dated 09/18/13, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   2) Small Missile Impact Test per FBC, TAS 201–94
   3) Large Missile Impact Test per FBC, TAS 201–94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–7261**, dated 05/08/13, 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 an aluminum window wall system using laminated glass w/ 0.090" SGP, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–4438**, dated 01/28/05, signed and sealed by Michael L. Wenzel, P. E.

   (Submitted under previous NOA No. 08–1021.07)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of an aluminum window wall system, prepared by Certified Testing Corporation, Test Report No. **CTC–05–031** dated 10/15/05, signed and sealed by Yamil G. Kuri, P. E.

   (Submitted under previous NOA No. 07–0709.02)
4. 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 an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–3776**, dated 04/04/03, signed and sealed by Joseph Chan, P. E.

   (Submitted under NOA No. 03–0618.01)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–0617.23
Expiration Date: September 25, 2018
Approval Date: October 03, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. 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 an aluminum window wall system using laminated glass w/ 0.090" SGP, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–3348**, dated 02/05/02, signed and sealed by Michael L. Wenzel, P. E.
(Submitted under NOA No. 02–0329.02)

6. 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 an aluminum window wall system, prepared by Construction Testing Corporation, Test Report No. **CTC-01-002**, dated 03/19/01, signed and sealed by Yamil G. Kuri, P. E., and additional information describing tests sequence, provided by Construction Testing Corporation and dated 01/17/01.
(Submitted under previous NOA No. 01–0402.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC–2010**, dated 06/06/13, prepared by Al–Farooq Corporation, signed, sealed and dated 09/20/13 by Javad Ahmad, P. E.

2. Glazing complies with ASTM E1300–04

D. QUALITY ASSURANCE

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

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 08/25/11, expiring on 01/14/17.

2. Notice of Acceptance No. **12–1231.08** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 03/28/13, expiring on 12/11/18.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–0617.23
Expiration Date: September 25, 2018
Approval Date: October 03, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

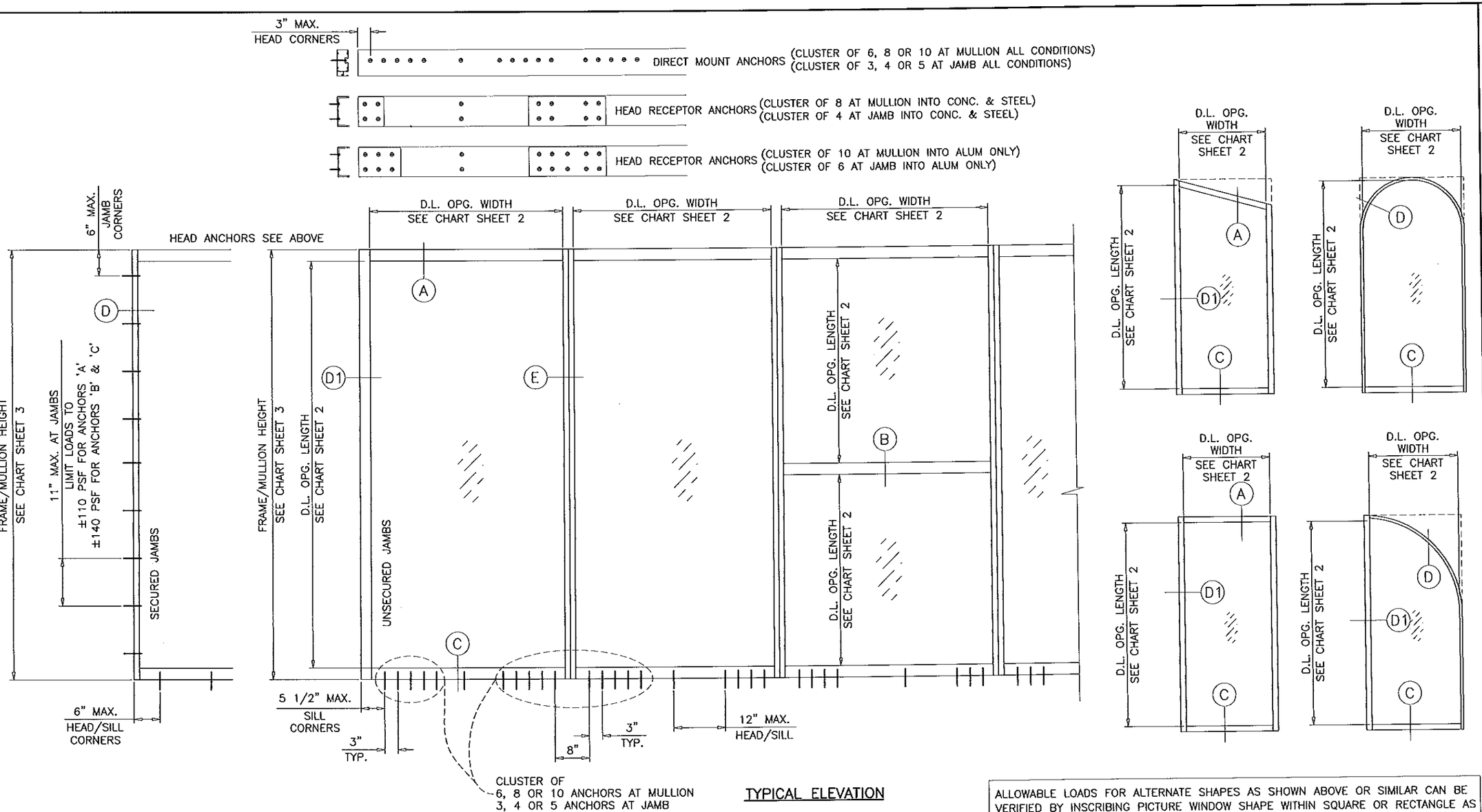
F. STATEMENTS

1. Statement letter of no financial interest, conformance and complying with **FBC–2010**, issued by Al–Farooq Corporation, dated 06/06/13, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No. **FTL–7261**, issued by Fenestration Testing Laboratory, Inc., dated 05/08/13, signed and sealed by Marlin D. Brinson, P. E.
3. Proposal issued by Product Control, dated 03/06/13, signed by Jaime D. Gascon, P. E.
4. Laboratory compliance letters for Test Reports No.'s **FTL–4438**, dated 01/28/05 and **FTL–3348**, dated 02/05/02, both issued by Fenestration Testing Laboratory, Inc., signed and sealed by Michael L. Wenzel, P. E.
   (Submitted under previous NOA No. 08–1021.07 and 02–0329.02)
5. Laboratory compliance letters for Test Reports No.'s **CTC–05–031**, dated 10/15/05 and **CTC-01-002**, dated 03/19/01, issued by Certified Testing Corporation, Inc., both signed and sealed by Yamil G. Kuri, P. E.
   (Submitted under previous NOA No. 07–0709.02 and 01–0402.02)
6. Laboratory compliance letter for Test Report No. **FTL–3776**, issued by Fenestration Testing Laboratory, Inc., dated 04/04/03, signed and sealed by Joseph Chan, P. E.
   (Submitted under NOA No. 03–0618.01)

G. OTHERS

1. Notice of Acceptance No. **08–1021.07**, issued to Glasswall LLC for their "Series 101L Aluminum Window Wall System – L.M.I.", approved on 04/29/09 and expiring on 09/25/13.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–0617.23
Expiration Date: September 25, 2018
Approval Date: October 03, 2013



TYPICAL ELEVATION

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0617.23
Expiration Date 09/25/2016

By _____
Miami Dade Product Control

LAMINATED GLASS
LARGE MISSILE IMPACT

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SEP 20 2013

SERIES 101L ALUM WINDOW WALL SYSTEM

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

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING MULLION CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4 USING ANCHOR CHART ON SHEET 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

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

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE\W05-28GWL

SERIES 101L ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:			
no	date	by	description
A	09.24.08		UPDATED FOR 2007 FBC
B	01.22.09		NO CHANGE THIS SHEET
C	01.09.13		GENERAL REVISION
D	09.18.13		NO CHANGE THIS SHEET

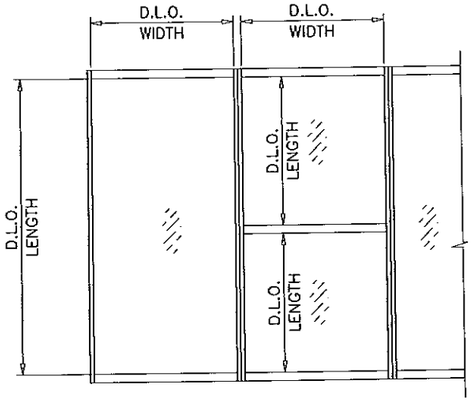
date: 06-16-05
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W05-28

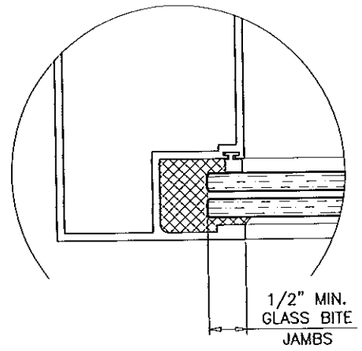
sheet 1 of 10

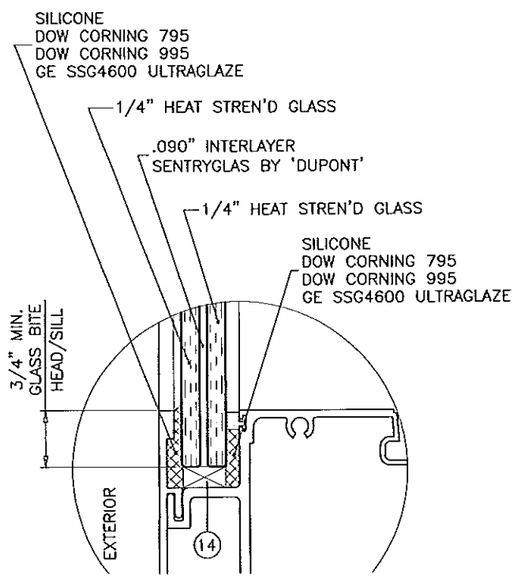
GLASS LOAD CAPACITY – PSF				
NOMINAL DIMS.		TYPE '1'	TYPE '2'	TYPE '3'
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	60"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		140.0	110.0	110.0
45"		140.0	110.0	110.0
48"		140.0	110.0	110.0
51"		140.0	110.0	110.0
54–1/2"		140.0	110.0	110.0
36"	66"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		140.0	110.0	110.0
45"		140.0	110.0	110.0
48"		140.0	110.0	110.0
51"		140.0	110.0	110.0
54–1/2"		110.0	110.0	110.0
36"	72"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		140.0	110.0	110.0
45"		140.0	110.0	110.0
48"		140.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		110.0	110.0	110.0
36"	78"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		140.0	110.0	110.0
45"		140.0	110.0	110.0
48"		110.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		110.0	110.0	110.0
36"	84"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		110.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		110.0	110.0	110.0
36"	90"	140.0	110.0	110.0
39"		140.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		110.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		110.0	110.0	110.0
36"	96"	140.0	110.0	110.0
39"		110.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		110.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		110.0	110.0	110.0

GLASS LOAD CAPACITY – PSF				
NOMINAL DIMS.		TYPE '1'	TYPE '2'	TYPE '3'
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	102"	110.0	110.0	110.0
39"		110.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		110.0	110.0	110.0
51"		110.0	110.0	110.0
54–1/2"		–	–	110.0
36"	108"	110.0	110.0	110.0
39"		110.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		110.0	110.0	110.0
51"		–	–	110.0
54–1/2"		–	–	110.0
36"	114–3/4"	110.0	110.0	110.0
39"		110.0	110.0	110.0
42"		110.0	110.0	110.0
45"		110.0	110.0	110.0
48"		–	–	110.0
51"		–	–	110.0

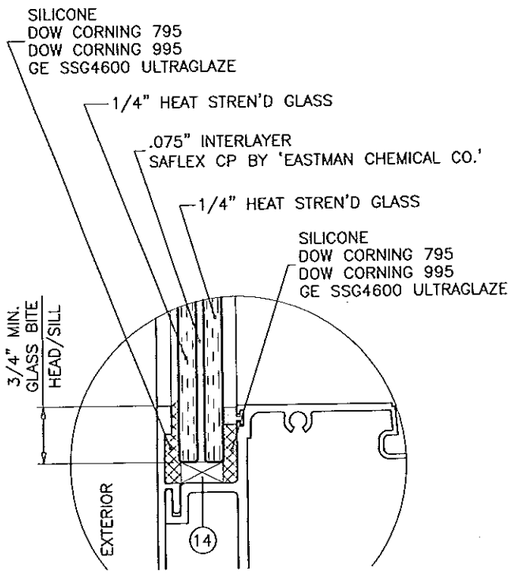


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS).

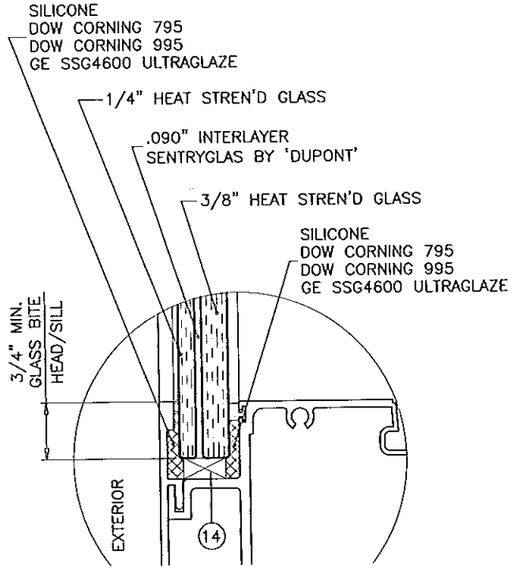




GLASS TYPE '1'



GLASS TYPE '2'



GLASS TYPE '3'

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0617.23
Expiration Date 09/25/2018

By _____
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SEP 2 0 2013

AL-FAROOQ CORPORATION
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SERIES 101L ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:

no	date	by	description
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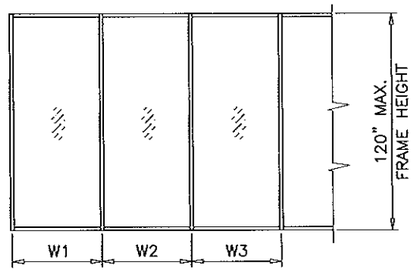
B	01.22.09		NO CHANGE THIS SHEET
C	01.09.13		GENERAL REVISION
D	09.18.13		REV. PER RER COMMENTS

date: 06–16–05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05–28

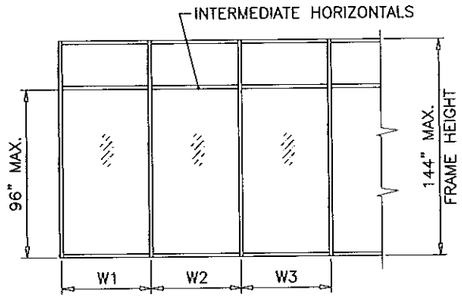
MULLION LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'	JAMB 'J1' MULLION 'M2'	JAMB 'J3' MULLION 'M3'
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	96"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	102"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	108"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	114"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	136.0	140.0
36"	120"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	133.3	140.0
54–1/2"		101.1	120.6	110.0



WIDTH (W) = W1
AT FRAME JAMB

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

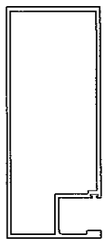


WIDTH (W) = W1
AT FRAME JAMB

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

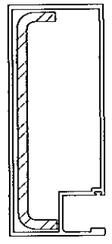
MULLION LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'	JAMB 'J1' MULLION 'M2'	JAMB 'J3' MULLION 'M3'
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	96"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	102"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	108"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		110.0	140.0	140.0
57"		110.0	140.0	140.0
36"	114"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		110.0	140.0	140.0
54"		108.8	129.8	140.0
57"		103.0	123.0	140.0
36"	120"	110.0	140.0	140.0
42"		110.0	140.0	140.0
48"		104.9	125.2	140.0
54–1/2"		93.2	111.3	110.0
36"	132"	–	–	110.0
42"		–	–	110.0
48"		–	–	110.0
54"		–	–	110.0
57"		–	–	110.0
36"	138"	–	–	110.0
42"		–	–	110.0
48"		–	–	110.0
54"		–	–	110.0
57"		–	–	110.0
36"	144"	–	–	110.0
42"		–	–	110.0
48"		–	–	110.0
54"		–	–	110.0
56"		–	–	110.0



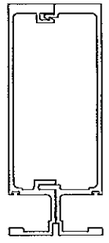
JAMB 'J1'
W/O REINF.

Ix IN^4	Sx IN^3
9.252	2.935



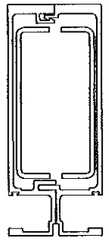
JAMB 'J3'
W/ STL. REIN.

	Ix IN^4	Sx IN^3
ALUMINUM	9.252	2.935
STEEL	5.341	1.858
TOTAL Ix ALUM + Ix STL X 2.9	24.741	



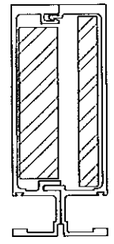
MULLION 'M1'
W/O REINF.

Ix IN^4	Sx IN^3
14.161	4.487



MULLION 'M2'
W/ ALUM REINF.

Ix IN^4	Sx IN^3
16.903	5.356



MULLION 'M3'
W/ STL. REINF.

	Ix IN^4	Sx IN^3
ALUMINUM	14.161	4.487
STEEL	9.130	4.057
TOTAL Ix ALUM + Ix STL X 2.9	40.638	

PRODUCT REVISED
as complying with the Florida
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Acceptance No 13-0617.23
Expiration Date ~~09/25/2018~~

By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SEP 20 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

STORE\ W05-28GWL

SERIES 101L ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:

no	date	by	description
A	09.24.08		UPDATED FOR 2007 FBC
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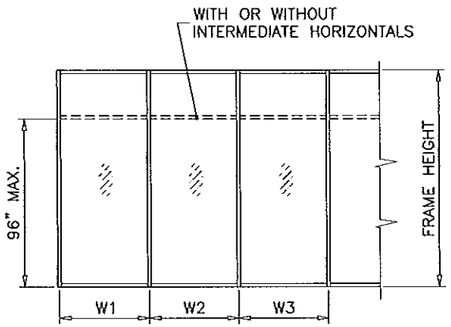
date: 06-16-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05-28

ANCHOR LOAD CAPACITY – PSF
EXT.(+) & INT.(–)

NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A6	A8	A10	B6/C6	B8/C8	B10/C10
36"	96"	140.0	140.0	140.0	140.0	140.0	140.0
42"		132.8	140.0	140.0	140.0	140.0	140.0
48"		121.0	140.0	140.0	140.0	140.0	140.0
54"		112.2	140.0	140.0	140.0	140.0	140.0
57"		108.7	140.0	140.0	140.0	140.0	140.0
36"	102"	138.3	140.0	140.0	140.0	140.0	140.0
42"		122.9	140.0	140.0	140.0	140.0	140.0
48"		111.7	140.0	140.0	140.0	140.0	140.0
54"		103.3	137.7	140.0	137.4	140.0	140.0
57"		99.8	133.1	140.0	132.8	140.0	140.0
36"	108"	129.1	140.0	140.0	140.0	140.0	140.0
42"		114.4	140.0	140.0	140.0	140.0	140.0
48"		103.7	138.3	140.0	138.0	140.0	140.0
54"		95.6	127.5	140.0	127.2	140.0	140.0
57"		92.3	123.0	140.0	122.8	140.0	140.0
36"	114"	121.0	140.0	140.0	140.0	140.0	140.0
42"		107.1	140.0	140.0	140.0	140.0	140.0
48"		96.8	129.1	140.0	128.8	140.0	140.0
54"		89.0	118.7	140.0	118.4	140.0	140.0
57"		85.8	114.4	140.0	114.2	140.0	140.0
36"	120"	113.9	140.0	140.0	140.0	140.0	140.0
42"		100.6	134.1	140.0	133.8	140.0	140.0
48"		90.8	121.0	140.0	120.8	140.0	140.0
54–1/2"		83.3	111.0	138.8	110.8	140.0	140.0
36"	126"	107.6	110.0	110.0	110.0	110.0	110.0
42"		94.8	110.0	110.0	110.0	110.0	110.0
48"		85.4	110.0	110.0	110.0	110.0	110.0
54"		78.2	104.3	110.0	104.1	110.0	110.0
57"		75.2	100.3	110.0	100.1	110.0	110.0
36"	132"	101.9	110.0	110.0	110.0	110.0	110.0
42"		89.7	110.0	110.0	110.0	110.0	110.0
48"		80.7	107.6	110.0	107.3	110.0	110.0
54"		73.8	98.3	110.0	98.1	110.0	110.0
57"		70.9	94.5	110.0	94.3	110.0	110.0
36"	138"	96.8	110.0	110.0	110.0	110.0	110.0
42"		85.1	110.0	110.0	110.0	110.0	110.0
48"		76.4	101.9	110.0	101.7	110.0	110.0
54"		69.8	93.0	110.0	92.8	110.0	110.0
57"		67.0	89.3	110.0	89.1	110.0	110.0
36"	144"	92.2	110.0	110.0	110.0	110.0	110.0
42"		80.9	107.9	110.0	107.7	110.0	110.0
48"		72.6	96.8	110.0	96.6	110.0	110.0
54"		66.2	88.3	110.0	88.1	110.0	110.0
56"		63.5	84.7	105.9	84.5	110.0	110.0



WIDTH (W) = W1
AT FRAME JAMB

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

ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

A6 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B6 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
C6 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

A8 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B8 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
C8 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

A10 = (5) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B10 = (5) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
C10 = (5) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0617.23
Expiration Date 04/25/2018

By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SEP 2 0 2013

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STORE\ W05-28GWL

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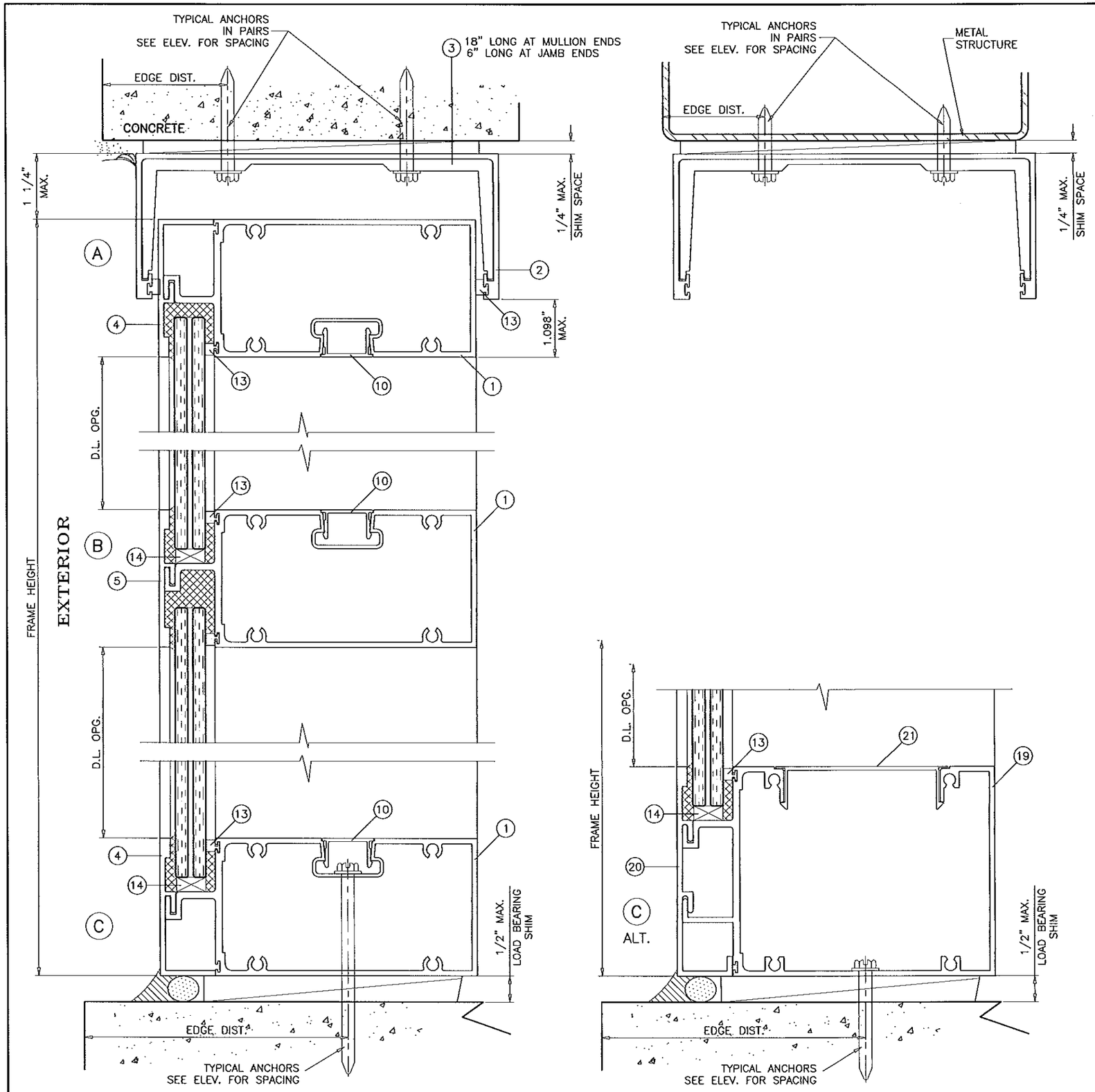

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SEP 20 2013

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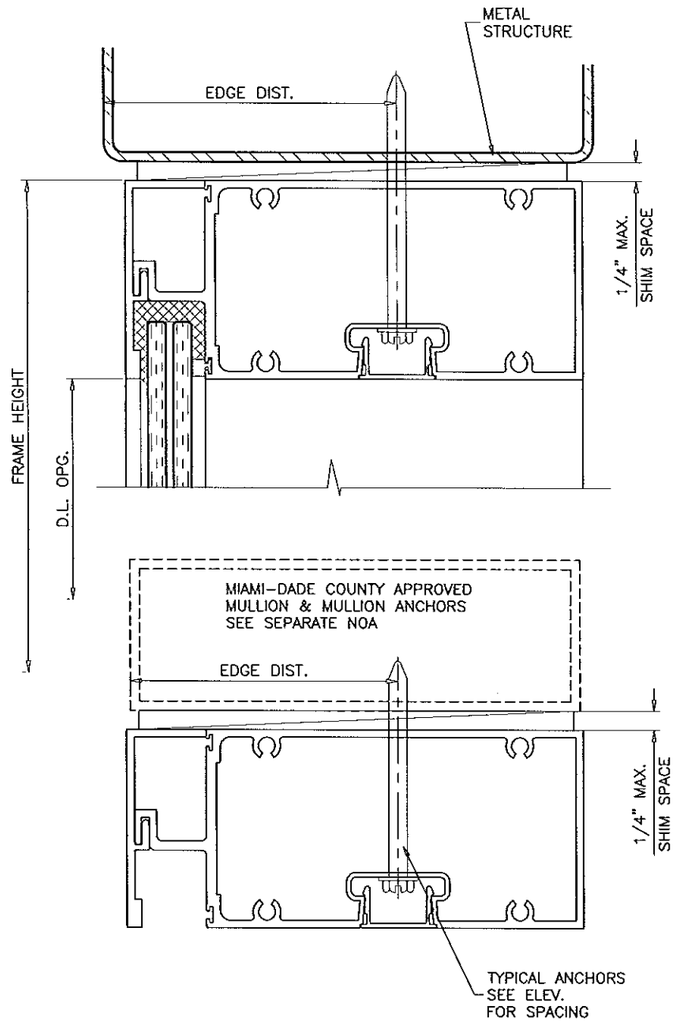
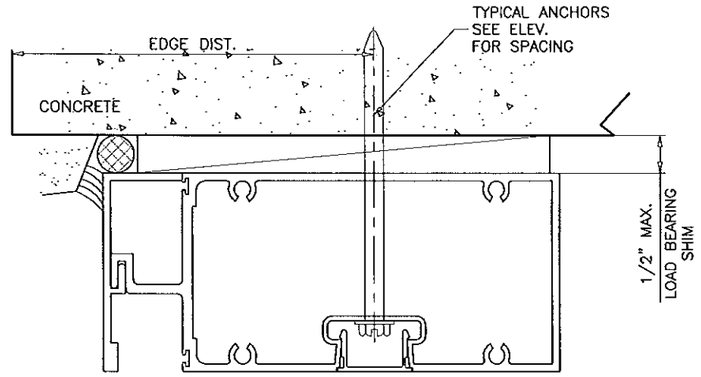
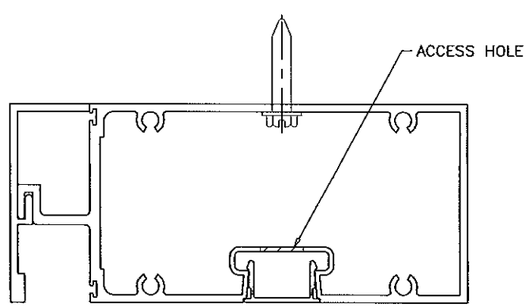
drawing no.
W05-28

sheet 5 of 10

HEAD AND/OR SILL TYP. DETAILS







ALT. ANCHOR LOCATION
TYP. FOR ALL CONDITIONS

METAL STRUCTURES NOT BY GLASSWALL
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD & SILL

TYPE 'A'
1/4" DIA HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. CONC. EMBEDMENT (WITHOUT RECEPTOR)
1-3/4" MIN. CONC. EMBEDMENT (WITH RECEPTOR)

TYPE 'B'
5/16" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. CONC. EMBEDMENT (WITHOUT RECEPTOR)
1-3/4" MIN. CONC. EMBEDMENT (WITH RECEPTOR)

TYPE 'C'
1/4" TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
1/4" ST. STEEL SMS (CW) (GRADE 2)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT JAMBS

TYPE 'A'
1/4" DIA HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO MASONRY OR CONCRETE
1-1/4" MIN. MASONRY OR CONC. EMBEDMENT

TYPE 'B'
5/16" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO MASONRY OR CONCRETE
1-1/4" MIN. MASONRY OR CONCRETE EMBEDMENT

TYPE 'C'
1/4" TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
1/4" ST. STEEL SMS (CW) (GRADE 2)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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FLA. PE # 70592
C.A.N. 3538

SEP 2 0 2013

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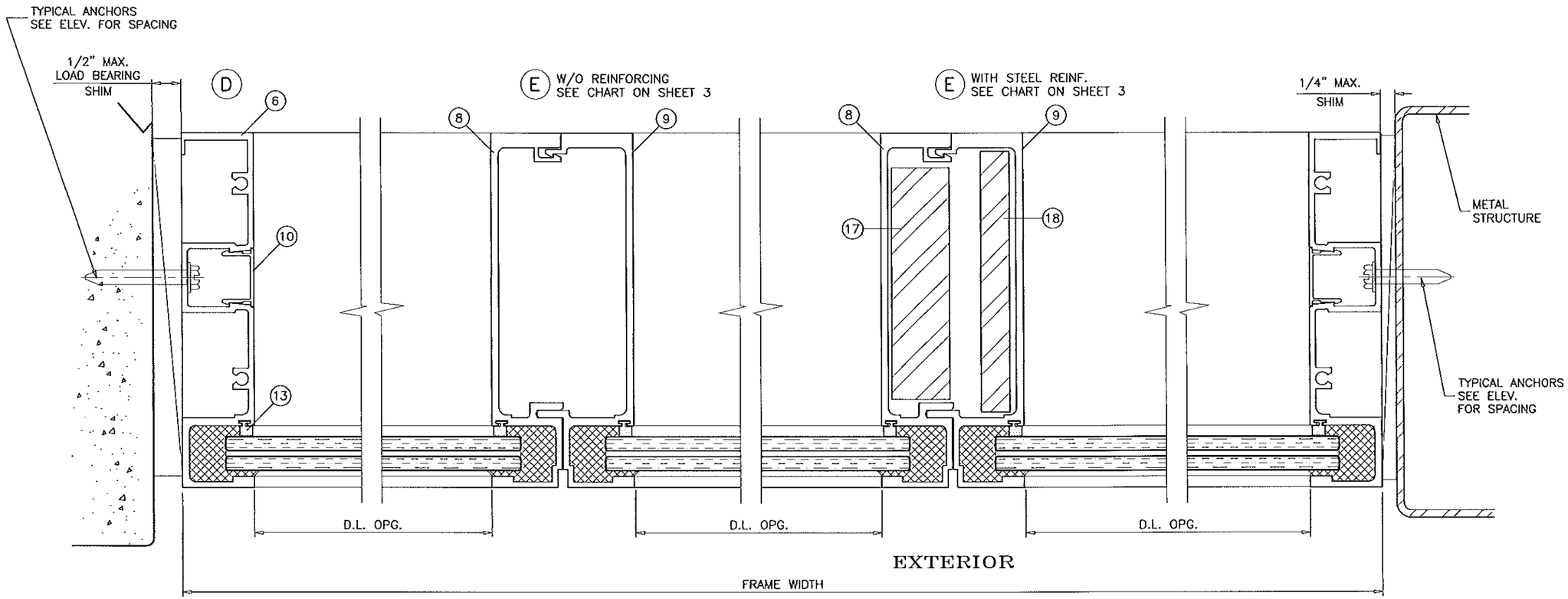
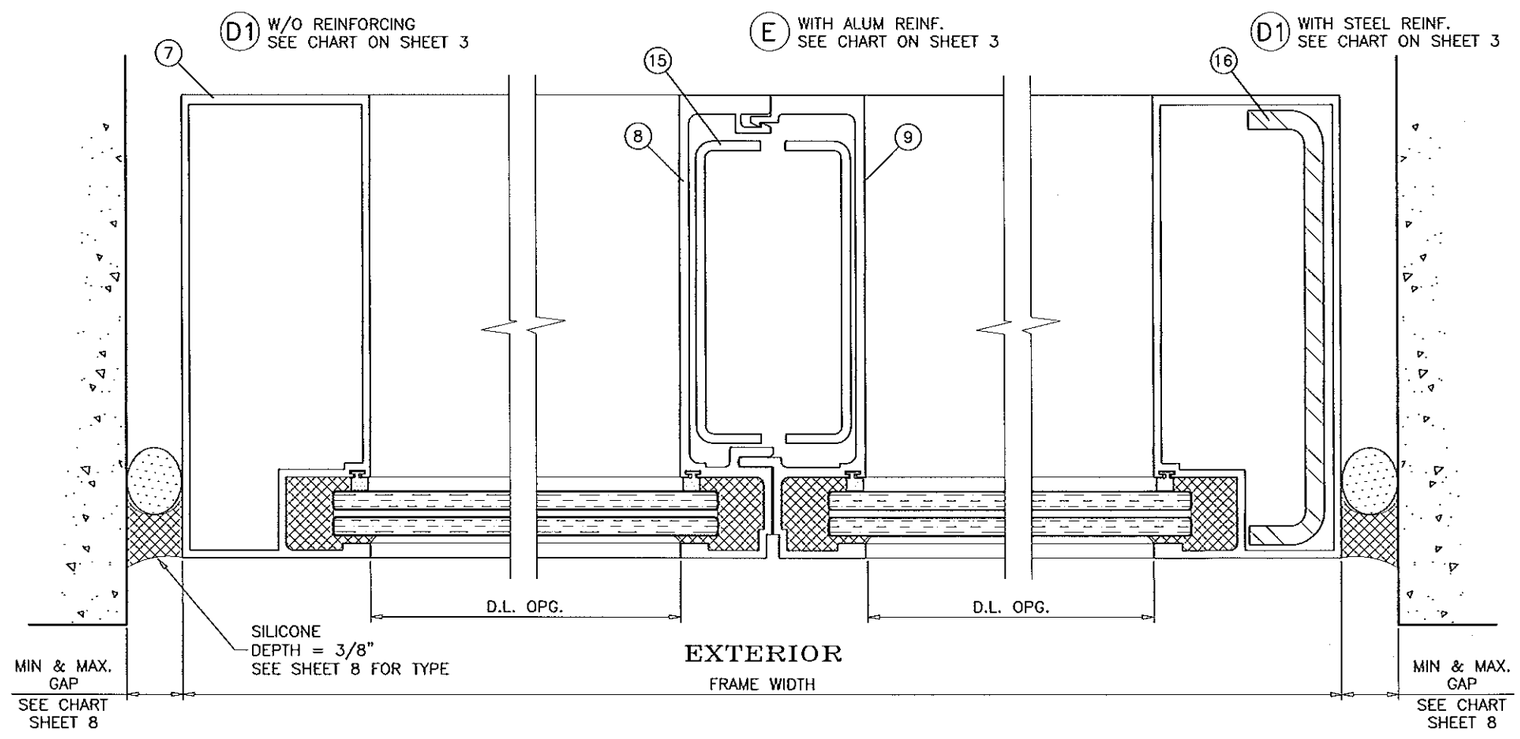
date: 06-16-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05-28

sheet 6 of 10





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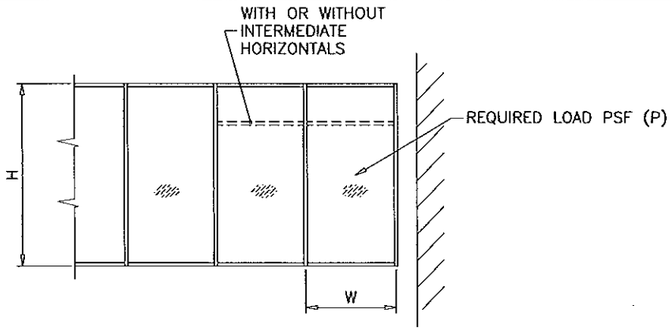
sheet 7 of 10

UNANCHORED JAMBS MINIMUM DEFLECTION (D70)			
NOMINAL DIMS.		JAMB W/O REINFORCING	JAMB WITH REINFORCING
WIDTH (W)	FRAME HEIGHT		
36"	96"	.105"	.039"
42"		.122"	.046"
48"		.139"	.052"
54"		.157"	.059"
57"		.166"	.062"
36"	102"	.133"	.050"
42"		.156"	.058"
48"		.178"	.066"
54"		.200"	.075"
57"		.211"	.079"
36"	108"	.168"	.063"
42"		.195"	.073"
48"		.223"	.084"
54"		.251"	.094"
57"		.265"	.099"
36"	114"	.208"	.078"
42"		.243"	.091"
48"		.277"	.104"
54"		.312"	.117"
57"		.329"	.123"
36"	120"	.255"	.095"
42"		.298"	.111"
48"		.340"	.127"
54-1/2"		.383"	.143"
36"	132"	.374"	.140"
42"		.436"	.163"
48"		.498"	.186"
54"		.561"	.210"
57"		.592"	.221"
36"	144"	.529"	.198"
42"		.618"	.231"
48"		.706"	.264"
54"		.794"	.297"
56"		–	.314"



TO OBTAIN DEFLECTION AT PROJECT
DETERMINE APPLICABLE JAMB (UNREINFORCED OR REINFORCED)

1) OBTAIN REQUIRED PRESSURE.

2) OBTAIN DEFLECTION AT 70 PSF (D70) FROM CHART AT LEFT.

3) OBTAIN PROJECT DEFLECTION (PD).

$$PD = \frac{P}{70} \times D70$$

(PD MUST NOT EXCEED L/180)

FROM CHART BELOW DETERMINE THE MIN. GAP (G) APPLICABLE TO PROJECT.

MAXIMUM GAP = 1"
MINIMUM GAP = 1/4"

MIN. GAP (G)	MAX. DEFLECTION	
	DC-795 GE SCS2000	DC-790 GE 2700
1/4"	.280"	.433"
3/8"	.420"	.649"
1/2"	.560"	.800"
3/4"	.800"	.800"
1"	.800"	.800"

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

COMPATIBILITY OF SEALANT WITH WINDOW WALL MATERIAL AND BUILDING SUBSTRATE TO BE VERIFIED WITH SILICONE MFG.

PLEASE REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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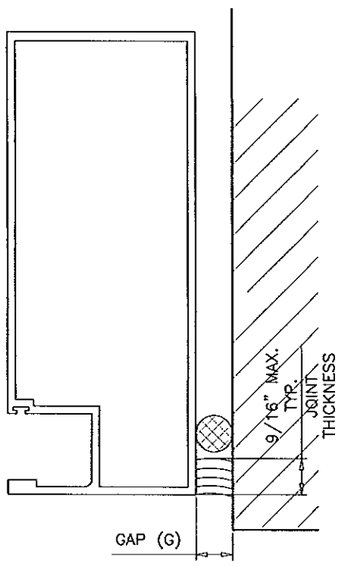
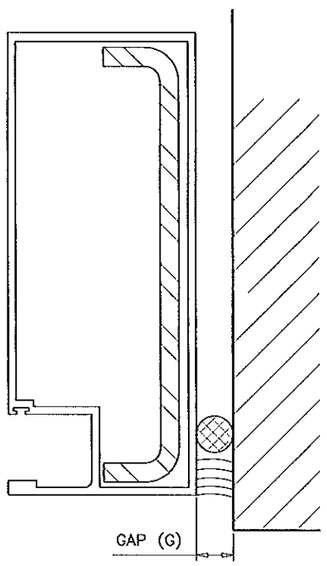
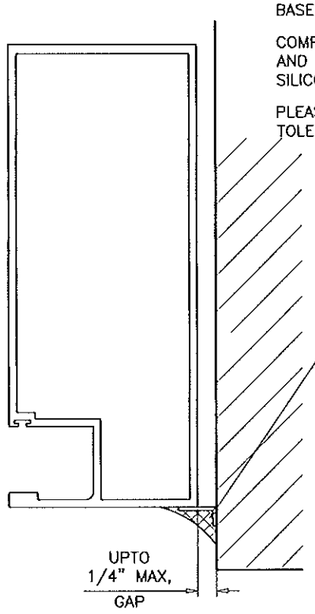
CONDITIONS WITH GAP 1/4" OR LESS TO BE REVIEWED ON JOB TO JOB BASIS



JAMB W/O REINFORCING



JAMB WITH REINFORCING



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drawing no.
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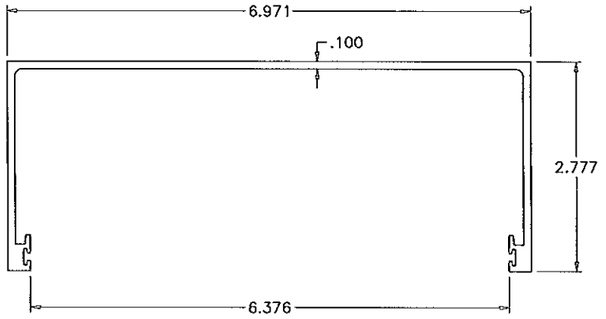
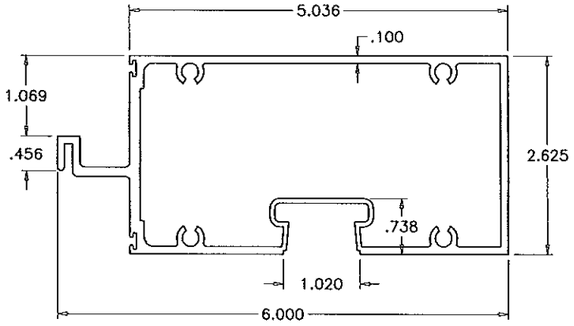
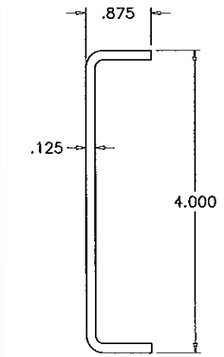


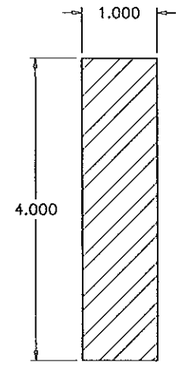
(2) HEAD RECEPTOR



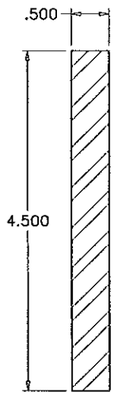
(1) FRAME HEAD/SILL/HORIZONTAL



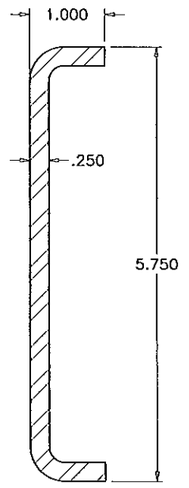
(15) ALUM CHANNEL



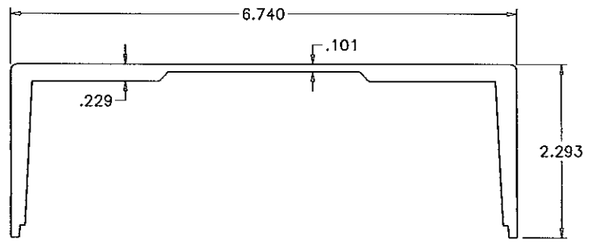
(17) STEEL BAR



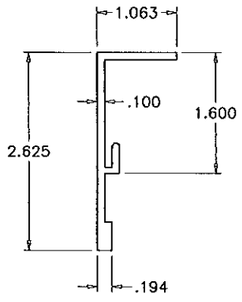
(18) STEEL BAR



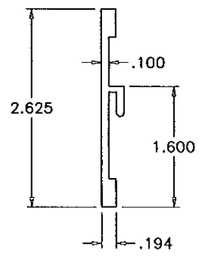
(16) STEEL CHANNEL



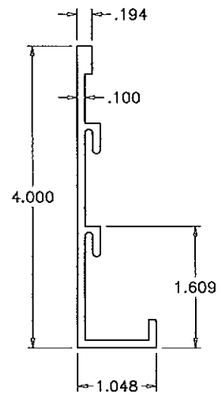
(3) HEAD RECEPTOR REINFORCING

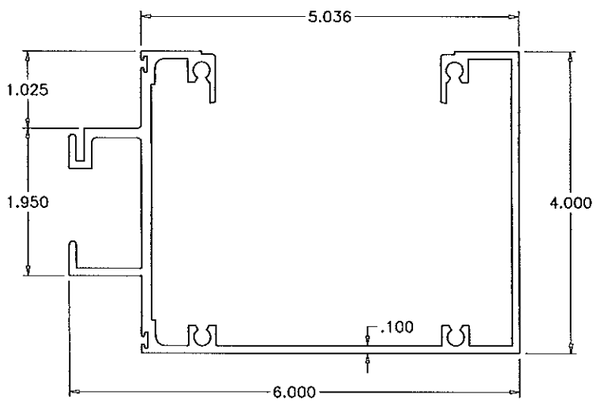


(4) GLAZING BEAD HEAD/SILL



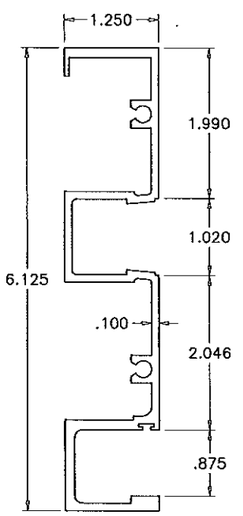
(5) GLAZING BEAD HORIZONTAL



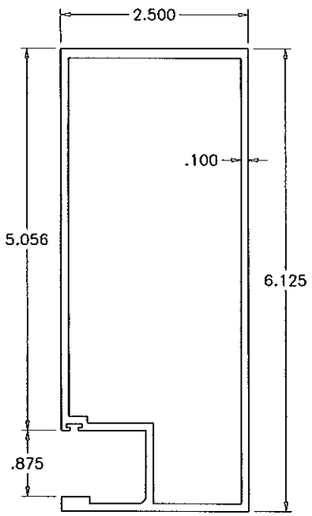


(20) GLAZING BEAD ALT. SILL

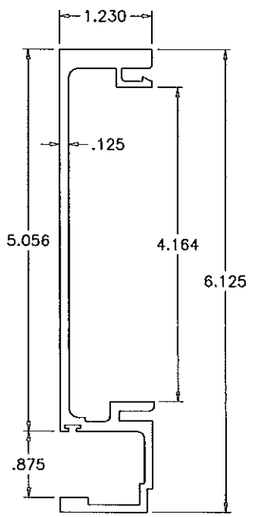
(19) ALT. FRAME SILL



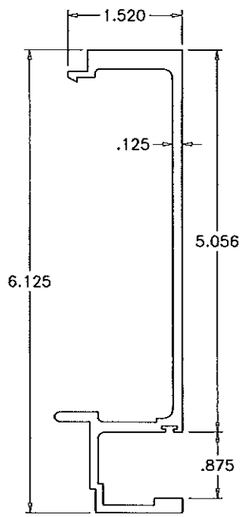
(6) FRAME JAMB



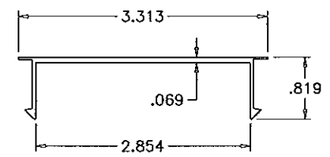
(7) FRAME JAMB



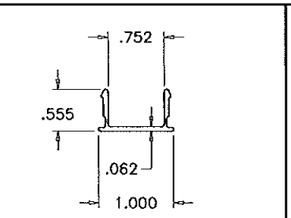
(8) FEMALE MULLION



(9) MALE MULLION



(21) SNAP COVER ALT. SILL



(10) SNAP COVER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0617.23
Expiration Date 09/25/2018

By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SEP 20 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE\W05-28GWL

SERIES 101L ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:

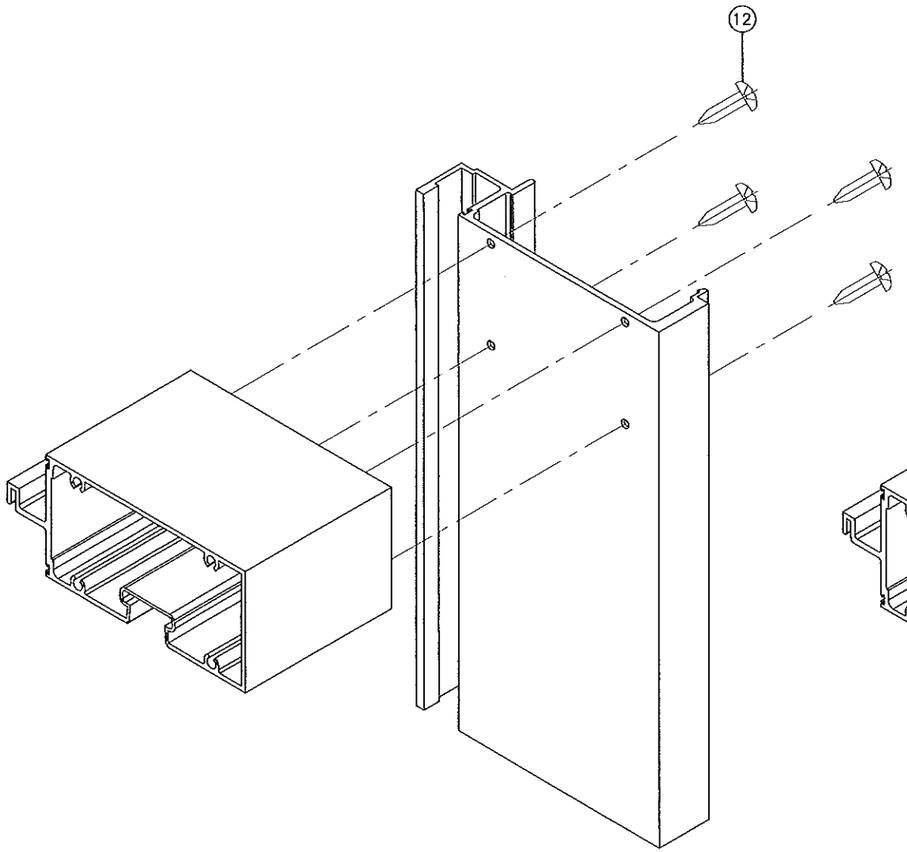
no	date	by	description
A	09.24.08		NO CHANGE THIS SHEET
B	01.22.09		NO CHANGE THIS SHEET
C	01.09.13		GENERAL REVISION
D	09.18.13		NO CHANGE THIS SHEET

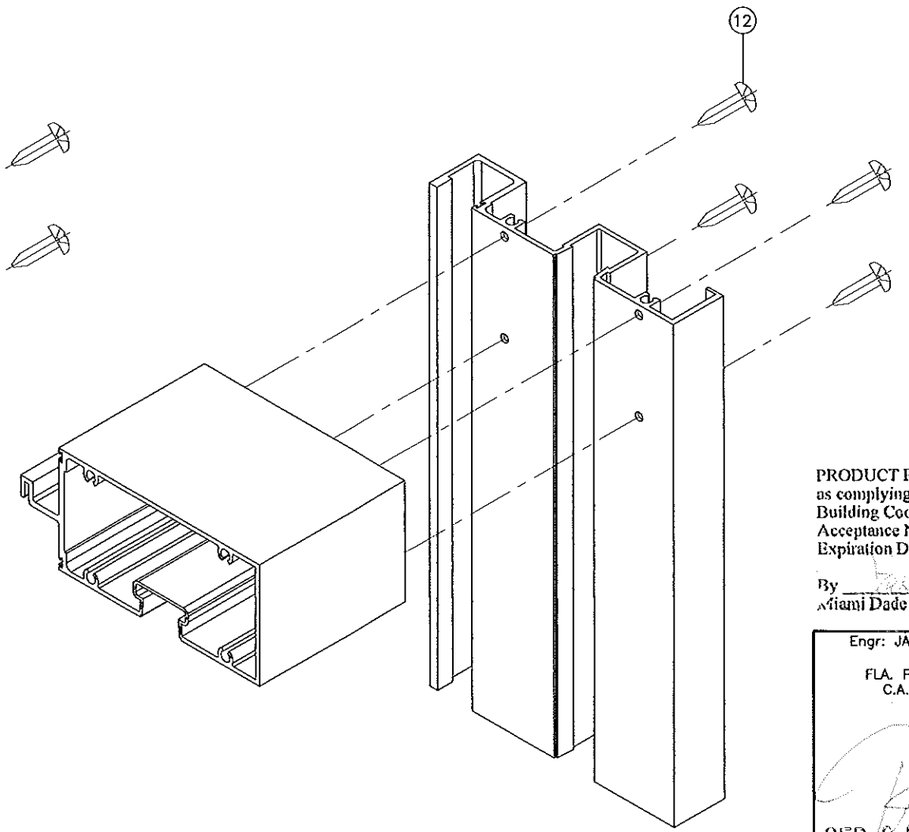
date: 06-16-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05-28

sheet 9 of 10

ITEM No.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	101-001	AS REQD.	FRAME HEAD, SILL AND HORIZONTAL	6005-T5	-
2	100-019	AS REQD.	HEAD RECEPTOR	6063-T6	-
3	101-020	AS REQD.	HEAD RECEPTOR REINFORCING	6005-T5	-
4	101-007	AS REQD.	GLAZING BEAD HEAD/SILL	6005-T5	-
5	101-005	AS REQD.	GLAZING BEAD HORIZONTAL	6005-T5	-
6	101-002	AS REQD.	FRAME JAMB	6005-T5	-
7	101-008	AS REQD.	FRAME JAMB	6005-T5	-
8	101-004	AS REQD.	FEMALE MULLION	6005-T5	-
9	101-003	AS REQD.	MALE MULLION	6005-T5	-
10	101-006	AS REQD.	SNAP COVER	6005-T5	-
11	-	-	-	-	-
12	#14 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH PH SMS
13	7P-448	AS REQD.	GASKET	VINYL	PROTOTYPE PLASTICS
14	-	AS REQD.	SETTING BLOCKS, 3/8" X 3/4" X 4" LONG	EPDM	DUROMETER 85±5 SHORE A
15	-	AS REQD.	MULLION REINFORCING CHANNEL	ALUMINUM	-
16	-	AS REQD.	JAMB REINFORCING CHANNEL	STEEL	-
17	-	AS REQD.	FEMALE MULLION REINFORCING BAR	STEEL	-
18	-	AS REQD.	MALE MULLION REINFORCING BAR	STEEL	-
19	101-011	AS REQD.	ALTERNATE FRAME SILL	6005-T5	-
20	101-012	AS REQD.	GLAZING BEAD ALTERNATE SILL	6005-T5	-
21	101-015	AS REQD.	SNAP COVER ALT. SILL	6005-T5	-





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sheet 10 of 10