



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

MIAMI-DADE COUNTY
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)

Titan Glass & Aluminum, LLC
450 West 27th Street
Hialeah, FL 33010

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 "TFX-2750" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. AD10-06, titled "TFX-2750 Alum. Fixed Window System (LMI)", sheets 1 through 5 of 5, dated 11/14/12, with revision #2 dated 02/17/14, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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# 12-1128.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



MP
3/13/14

NOA No. 14-0107.09
Expiration Date: March 11, 2019
Approval Date: March 20, 2014
Page 1

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **AD10-06**, titled "TFX-2750 Alum. Fixed Window System (LMI)", sheets 1 through 5 of 5, dated 11/14/12, with revision #2 dated 02/17/14, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of series 747 high performance aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5222**, dated 04/26/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 10-0719.13)
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
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of series 2007 aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5282**, dated 07/23/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 08-0919.02)
3. Test report No. **FTL 5635** on Drop Load Test per FBC and per ANSI Z 97.1, prepared by Fenestration Testing Laboratory, Inc., dated 08/06/08, signed and sealed by Carlos S. Rionda P.E.
(Submitted under NOA# 10-0719.13)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2007**, prepared by MCY Engineering, Inc., dated 06/30/10, signed and sealed by Yiping Wang, P.E.
(Submitted under previous NOA#10-0719.13)
2. Glazing complies with **ASTM E1300-04**


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-0107.09
Expiration Date: March 11, 2019
Approval Date: March 20, 2014

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

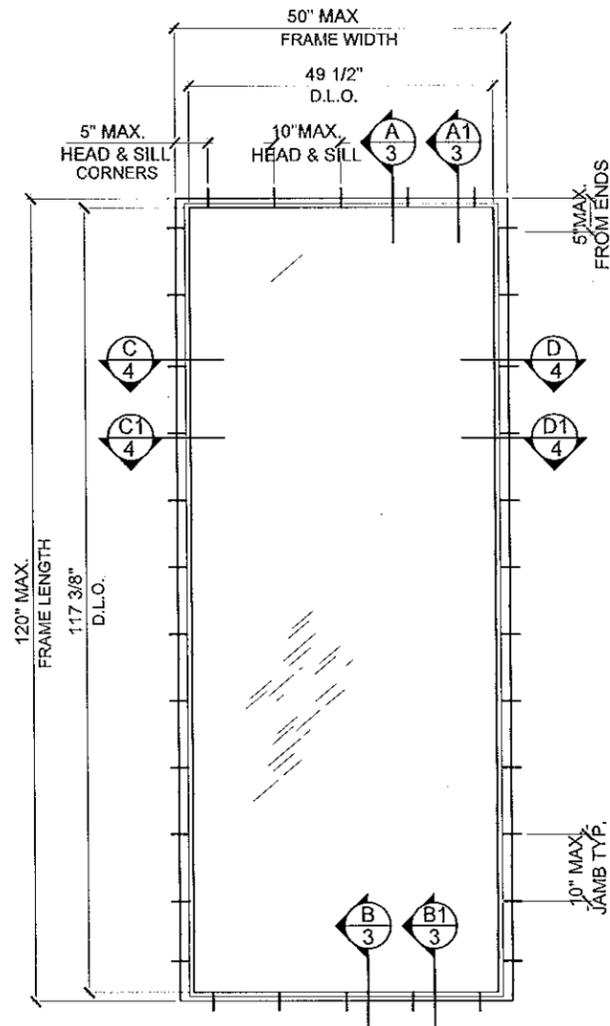
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2010** and of no financial interest, dated December 17, 2013, by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-5282**, issued by Fenestration Testing Laboratory, Inc., dated August 10, 2007, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 08-0919.02)
3. Laboratory compliance letter for Test Report No. **FTL-5743**, issued by Fenestration Testing Laboratory, Inc., dated December 30, 2008, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA# 09-0413.06)

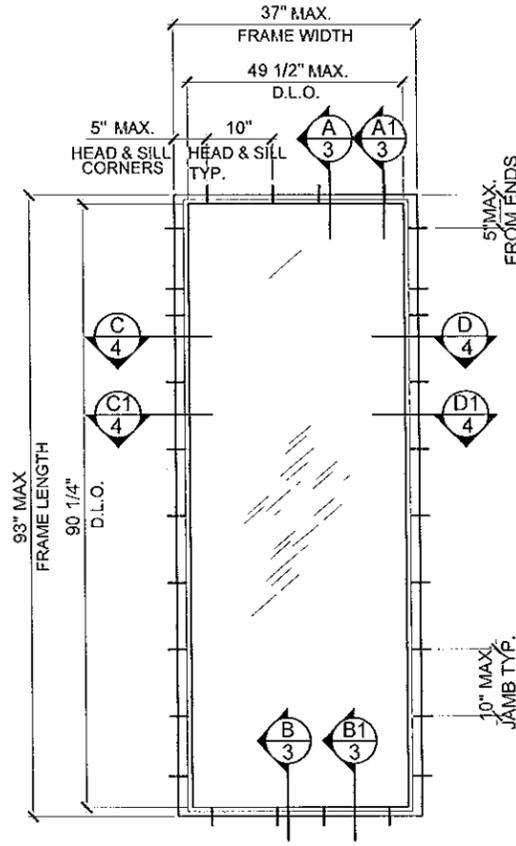
G. OTHERS

1. Notice of Acceptance No. **12-1128.03**, issued to Titan Glass & Aluminum, LLC for their Series "**TXF-2750**" Aluminum Fixed Window – L.M.I., approved on 12/27/12 and expiring on 03/11/14.

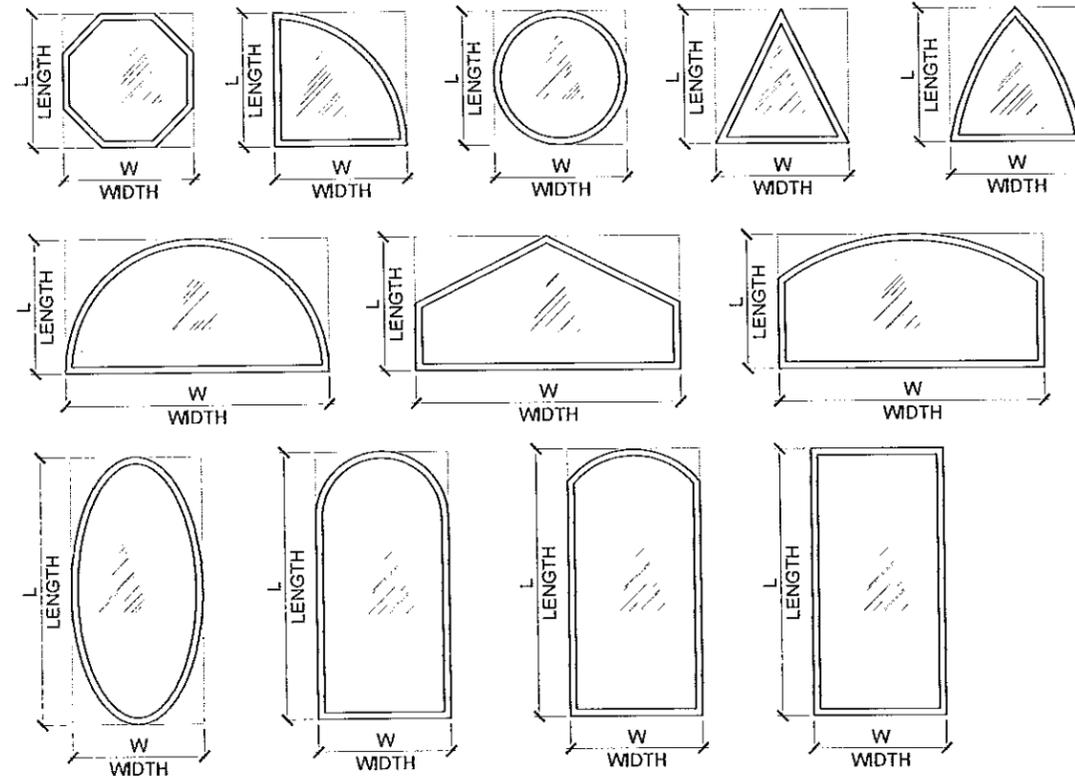

Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-0107.09
Expiration Date: March 11, 2019
Approval Date: March 20, 2014



TYPICAL ELEVATION



TYPICAL ELEVATION



* MAXIMUM DESIGN PRESSURE RATING (psf) FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE DETERMINED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE (W x L) OR RECTANGLE (W x L) AS SHOWN IN DOTTED LINES AND OBTAINING MAXIMUM DESIGN PRESSURE RATING (psf) FOR THOSE ALTERNATE SHAPES FROM SCHEDULES ON SHEETS 2.

GLASS TYPE A COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- 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.
- WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE SECTION 2003.8.4.
- METAL STRUCTURES BY OTHERS MUST SUPPORT LOADS IMPOSED BY WINDOW SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FEB 15 2014

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0107.09
Expiration Date March 17, 2014
By *Manuel Lopez*
Miami Dade Product Control
MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
Yiping Wang

DATE	11/14/12
SCALE	N.T.S.
DRAWN	W.L.
PROJECT	10-012
DRAWING NO.	AD10-06
SHEET	1 OF 5

TFX-2750 ALUM. FIXED WINDOW SYSTEM (LMI)
TITAN GLASS & ALUMINUM, LLC.
450 WEST 27th STREET
HIALEAH, FL 33010
P: (305) 888-0911 F: (305) 671-3840

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

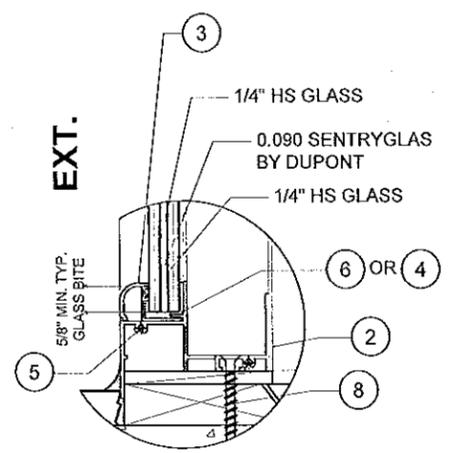
NO.	DATE	DESCRIPTION
1	3/15/12	UPDATE TO 2010 FBC
2	2/17/14	REV. PER FBC COMMENTS

FIXED WINDOW				
DESIGN LOAD CAPACITY - PSF				
FRAME DIMS.		GLASS TYPE "A"		
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	
66"	36"	114	150	
72"		114	150	
78"		114	150	
84"		114	150	
90"		114	150	
96"		114	150	
102"		114	150	
108"		114	150	
114"		114	149	
120"		114	147	
126"		114	146	
132"		114	114	
138"		114	114	
144"		114	114	
150"		114	114	
156"		114	114	
162"	114	114		
166"	114	114		
66"	42"	114	136	
72"		114	136	
78"		114	136	
84"		114	136	
90"		114	136	
96"		114	136	
102"		114	135	
108"		114	133	
114"		114	114	
120"		114	114	
126"		114	114	
132"		114	114	
138"		114	114	
142"		114	114	
66"		48"	114	119
72"			114	119
78"	114		119	
84"	114		119	
90"	114		119	
96"	114		114	
102"	114		114	
108"	114		114	
114"	114		114	
120"	114		114	
125"	114	114		

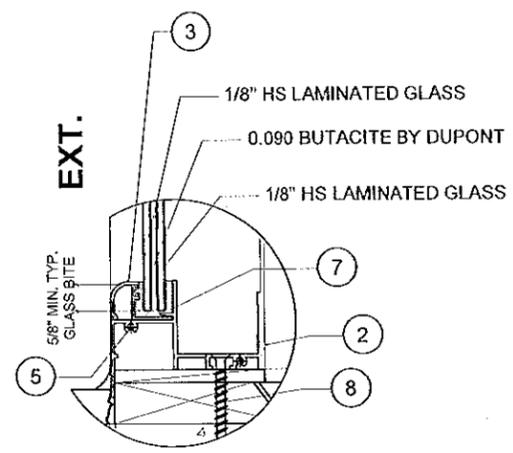
FIXED WINDOW				
DESIGN LOAD CAPACITY - PSF				
FRAME DIMS.		GLASS TYPE "A"		
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	
66"	54"	106	106	
72"		106	106	
78"		106	106	
84"		106	106	
90"		106	106	
96"		106	106	
102"		106	106	
108"		106	106	
111"	106	106		
66"	60"	95	95	
72"		95	95	
78"		95	95	
84"		95	95	
90"		95	95	
96"		95	95	
66"		66"	86	86
72"			86	86
78"	86		86	
84"	86		86	
90"	86		86	
96"	86		86	
66"	72"		86	86
72"			79	79
78"		79	79	
83"		79	79	

FIXED WINDOW				
DESIGN LOAD CAPACITY - PSF				
FRAME DIMS.		GLASS TYPE "B"		
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	
54"	36"	80	80	
60"		80	80	
66"		80	80	
72"		80	80	
78"		80	80	
84"		80	80	
90"		80	80	
95.5"		80	80	
93"		37	80	80
54"		42	80	80
60"	80		80	
66"	80		80	
72"	80		80	
78"	80		80	
81.9"	80		80	
54"	48		80	80
60"			80	80
66"			80	80
71.6"			80	80
54"		80	80	
54"	54	80	80	
60"		80	80	
54"		80	80	
57.3"	60	80	80	

FIXED WINDOW					
DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPE "A"		GLASS TYPE "B"	
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26"	19 1/8"	114	150	80	80
	26 1/2"	114	150	80	80
	37"	114	150	80	80
	53 1/8"	114	150	80	80
38-3/8"	19 1/8"	114	150	80	80
	26 1/2"	114	150	80	80
	37"	114	150	80	80
	53 1/8"	114	149	80	80
50-5/8"	19 1/8"	114	150	80	80
	26 1/2"	114	150	80	80
	37"	114	150	80	80
	53 1/8"	113	113	80	80
63"	19 1/8"	114	150	80	80
	26 1/2"	114	150	80	80
	37"	114	150	80	80
	53 1/8"	107	107	80	80
76"	19 1/8"	114	150	80	80
	26 1/2"	114	150	80	80
	37"	114	150	80	80
	53 1/8"	107	107	-	-



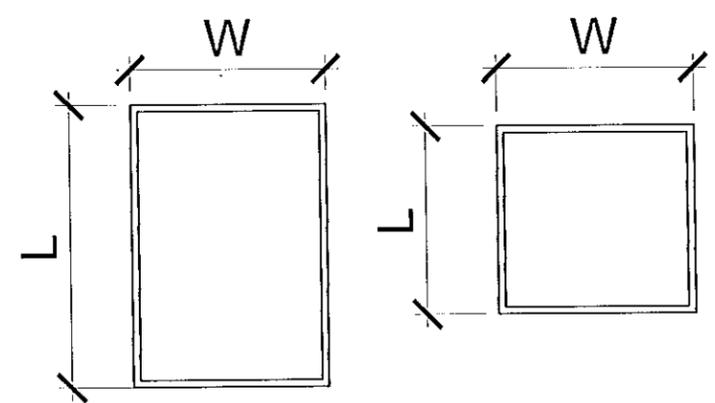
GLASS TYPE "A"



GLASS TYPE "B"

NOTE:
GLASS CAPACITIES ARE BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)

GLAZING COMPLY WITH ASTM E1300-04



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE

FEB 15 2014

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0107-09
Expiration Date March 2019
By *Manuel Sosa*
Miami Dade Product Control

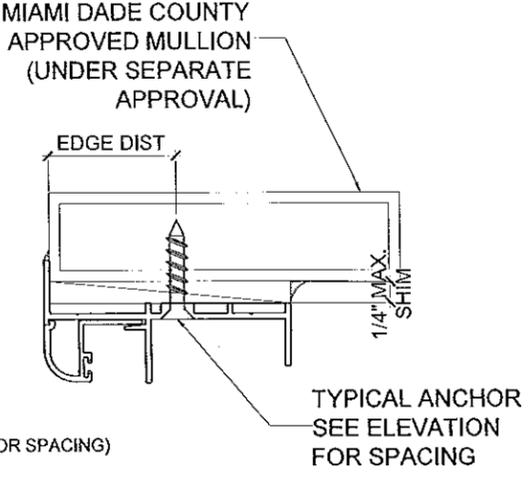
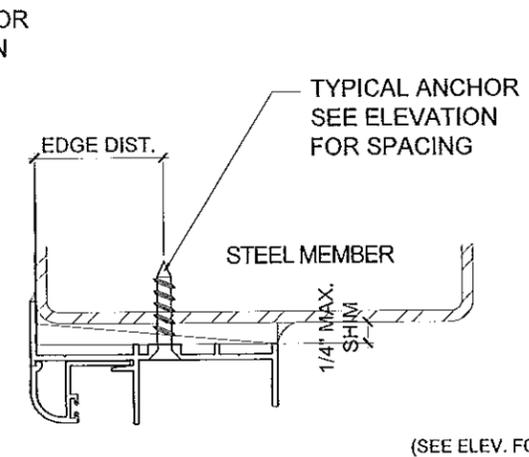
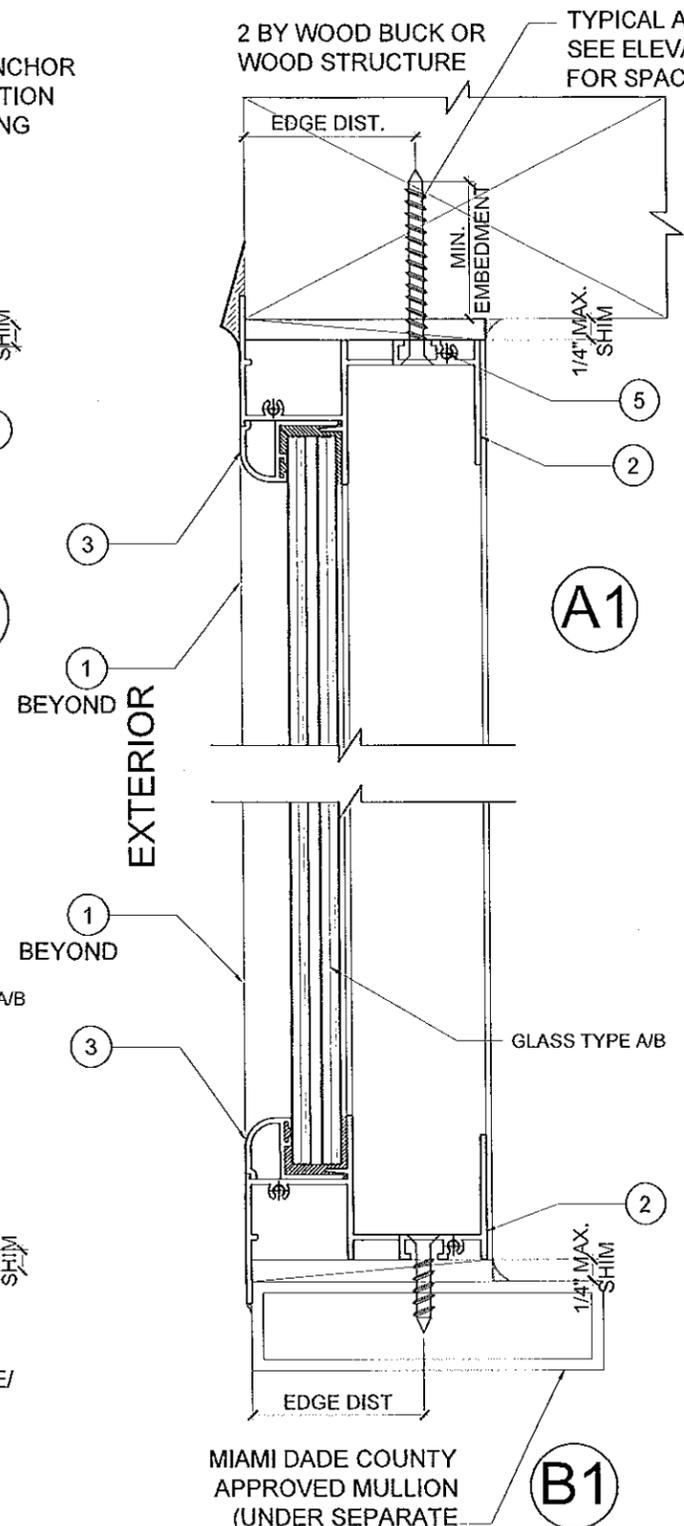
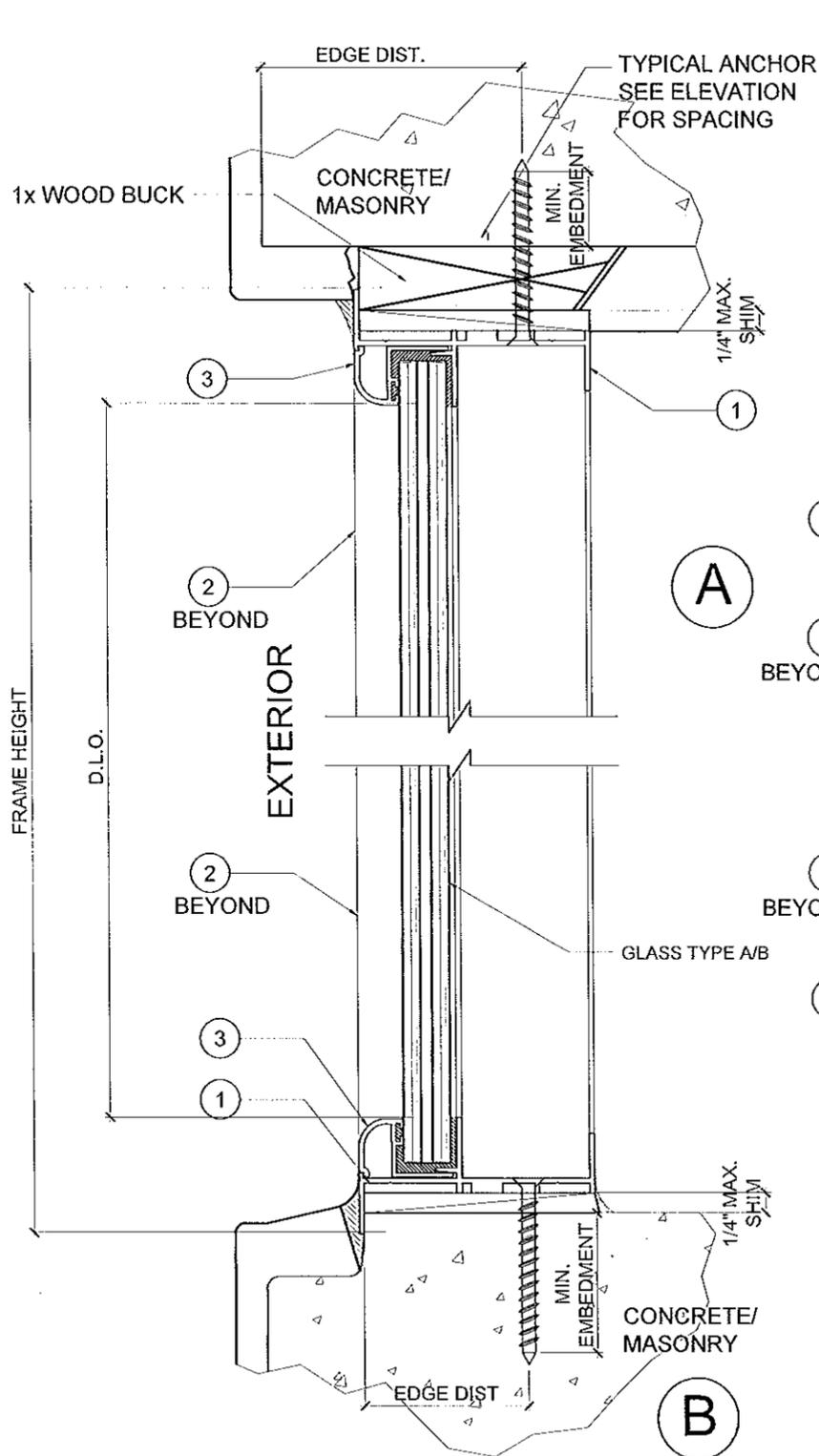
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE. #55983
C.A.N. 28677
Yiping Wang

NO.	DATE	DESCRIPTION
1	3/15/12	UPDATE TO 2010 FBC
2	2/17/14	REV. PER COMMENTS

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE, STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

TFX-2750 ALUM. FIXED WINDOW SYSTEM (LMI)
TITAN GLASS & ALUMINUM, LLC.
450 WEST 27th STREET
HIALEAH, FL 33010
P: (305) 888-0911 F: (305) 671-3840

DATE	11/14/12
SCALE	N.T.S.
DRAWN	W.L.
PROJECT	10-012
DRAWING NO.	AD10-06
SHEET	2 OF 5



TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACE)

- TYPE 'A' - **1/4" KWIKCONS II BY 'HILTI'** (Fu = 163 KSI, Fy = 157 KSI)
 - INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-1/2" MIN. PENETRATION INTO WOOD
 - THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 - DIRECTLY INTO CONC. OR MASONRY 1-5/8" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'B' - **1/4" TEKS OR SELFDILLING SCREWS (GRADE 5 CRS)** INTO METAL STRUCTURES
 - STEEL : 1/8" THK MIN (Fy = 36KSI MIN.)
 - ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE 'C' - **#14 SMS OR STAINLESS STEEL SCREWS (GRADE 2 CRS)**
 - INTO FLORIDA STATE APPROVED MULLIONS

- MASONRY**
- ASTM C90 GROUT FILLED CONCRETE BLOCK
 - HOLLOW CONCRETE BLOCK

- CONCRETE**
- fc= 3,000 PSI

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

SEALANT:
ALL FRAME CORNERS, FIXED PANELS AND FRAME ALL AROUND TO BE SEALED WITH SILICONE.

ALL ANCHOR OPTIONS CAN APPLY TO HEAD, SILL AND JAMB ANCHORS.

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DATE	11/14/12
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DRAWN	W.L.
PROJECT	10-012
DRAWING NO. AD10-06	
SHEET 3 OF 5	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0107.09
Expiration Date March 11, 2019

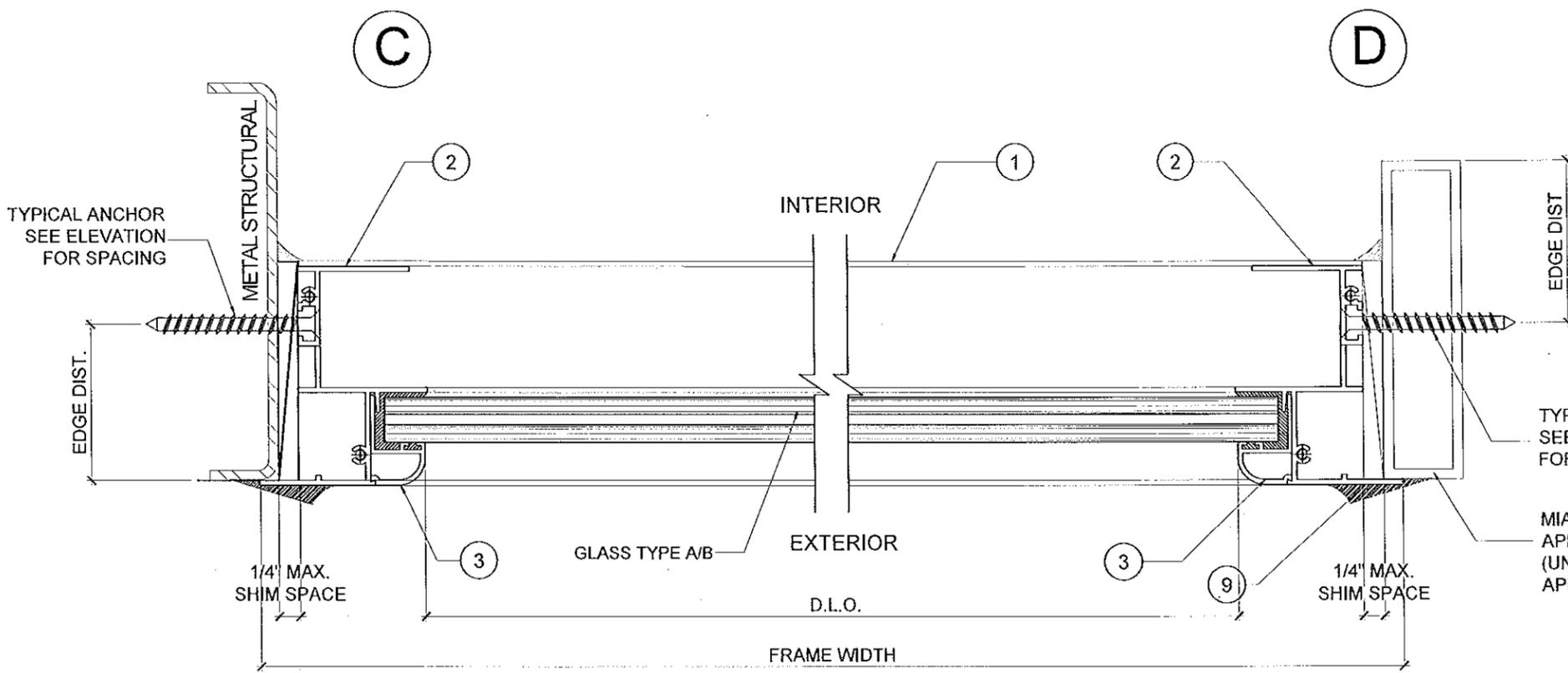
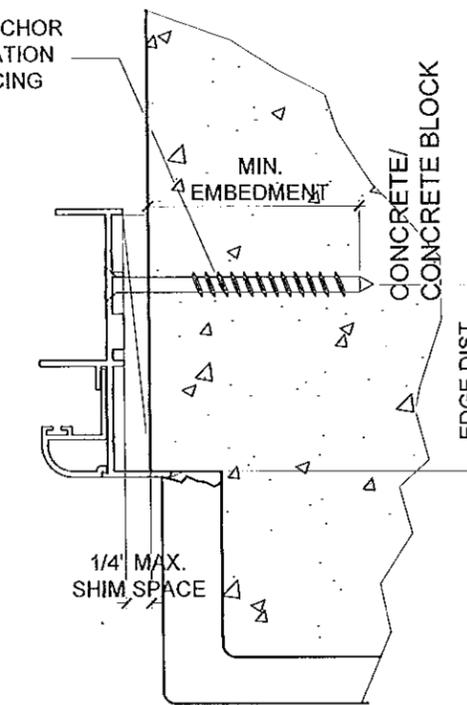
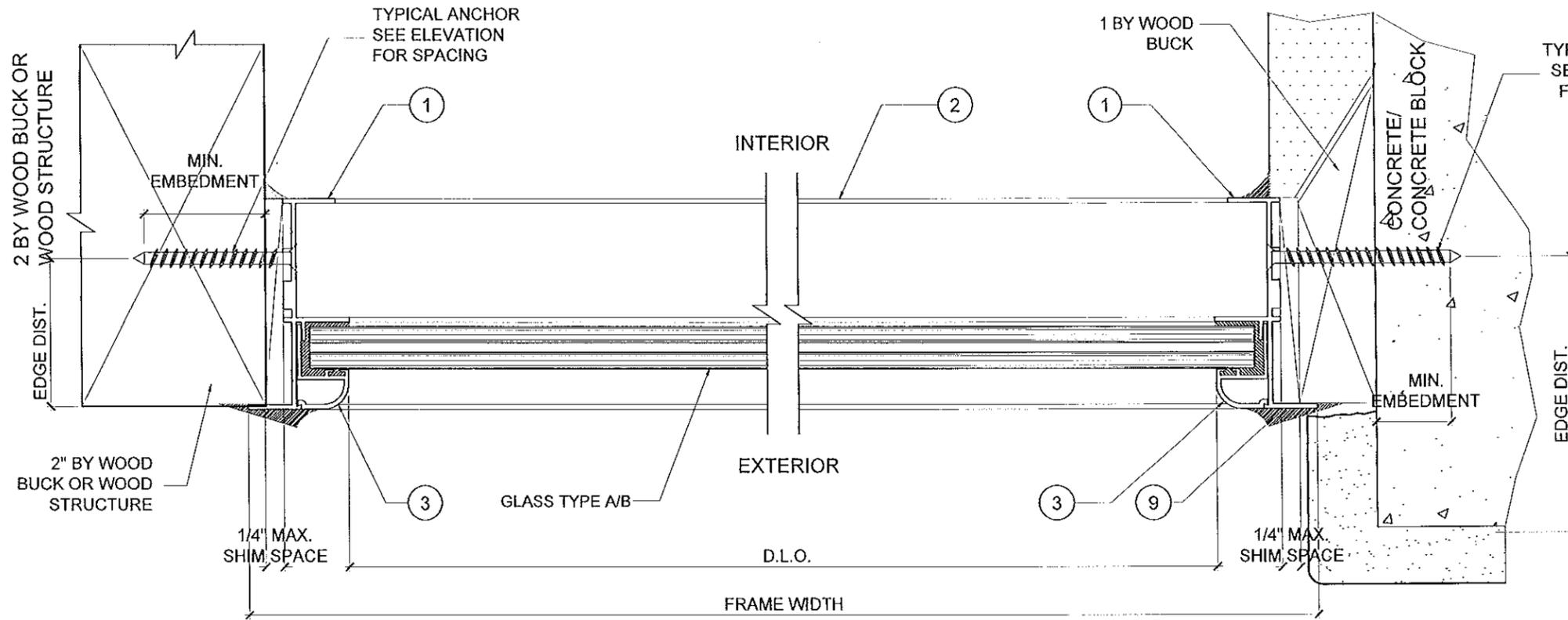
By *Manuel Juez*
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

Yiping Wang

FEB 15 2014



TYPICAL ANCHOR
SEE ELEVATION
FOR SPACING

MIAMI DADE COUNTY
APPROVED MULLION
(UNDER SEPARATE
APPROVAL)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-010709
Expiration Date March 2014
By *Manuel Perez*
Miami Dade Product Control

MIAMI DADE COUNTY

FEB 15 2014

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677

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www.MCYEngineering.com MCY.Engineering@Att.net

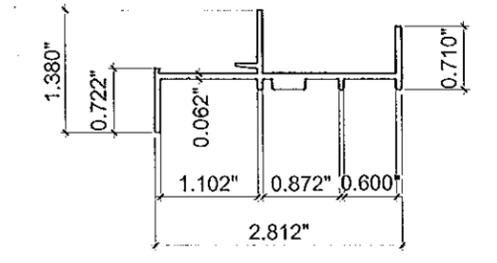
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TITAN GLASS & ALUMINUM, LLC.
450 WEST 27th STREET
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P: (305) 888 - 0911 F: (305) 871 - 3840

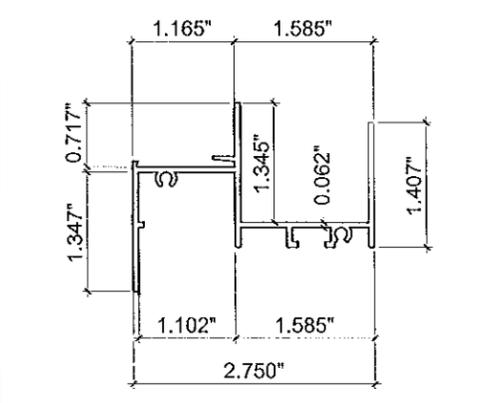
DATE	11/14/12
SCALE	N.T.S.
DRAWN	W.L.
PROJECT	10-012
DRAWING NO. AD10-06	
SHEET 4 OF 5	

BILL OF MATERIALS

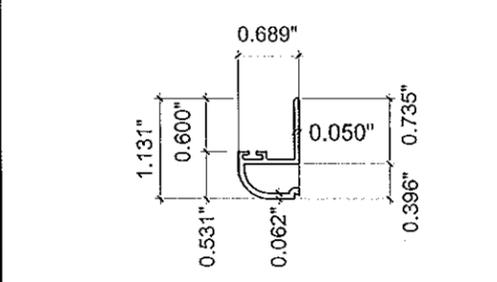
ITEM #	QTY.	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	AS REQD.	FSP 014	FRAME HEAD/SILL OR JAMBS	ALUM. 6063-T6	---
2	AS REQD.	FSP 015	FRAME HEAD/SILL OR JAMBS	ALUM. 6063-T6	---
3	4	FSP 017	GLAZING BEAD	ALUM. 6063-T6	---
4	AS REQD.	SEAL01-1	DOW 995 SILICONE	SILICONE	DOW CORNING
5	AS REQD.	-	#8X1" PH SMS	STEEL	---
6	AS REQD.	-	PECORA 896	SILICONE	PECORA
7	AS REQD.	-	DOW 899 SILICONE	SILICONE	DOW CORNING



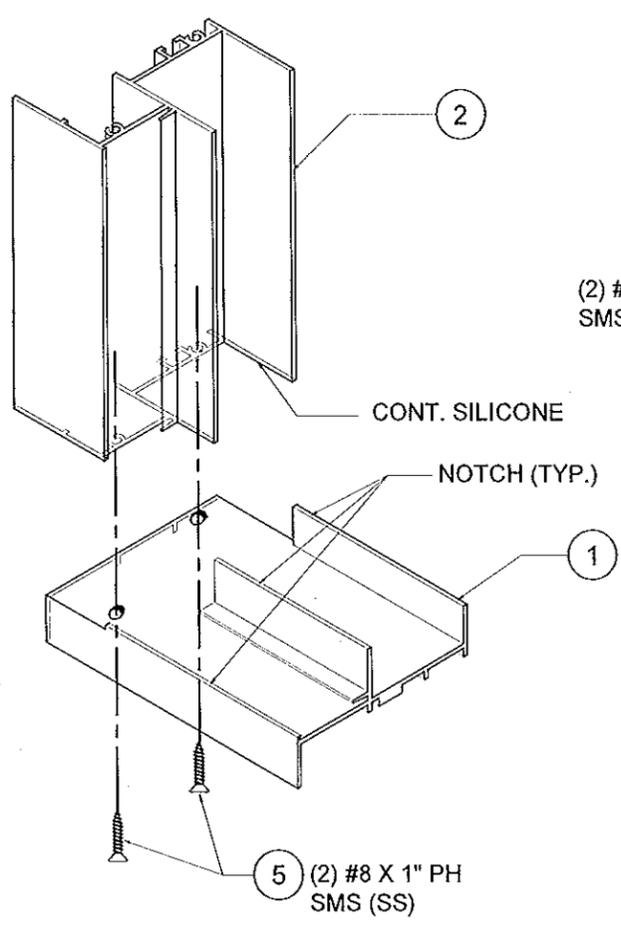
01 **FRAME HEAD, SILL OR JAMB**
FSP 014



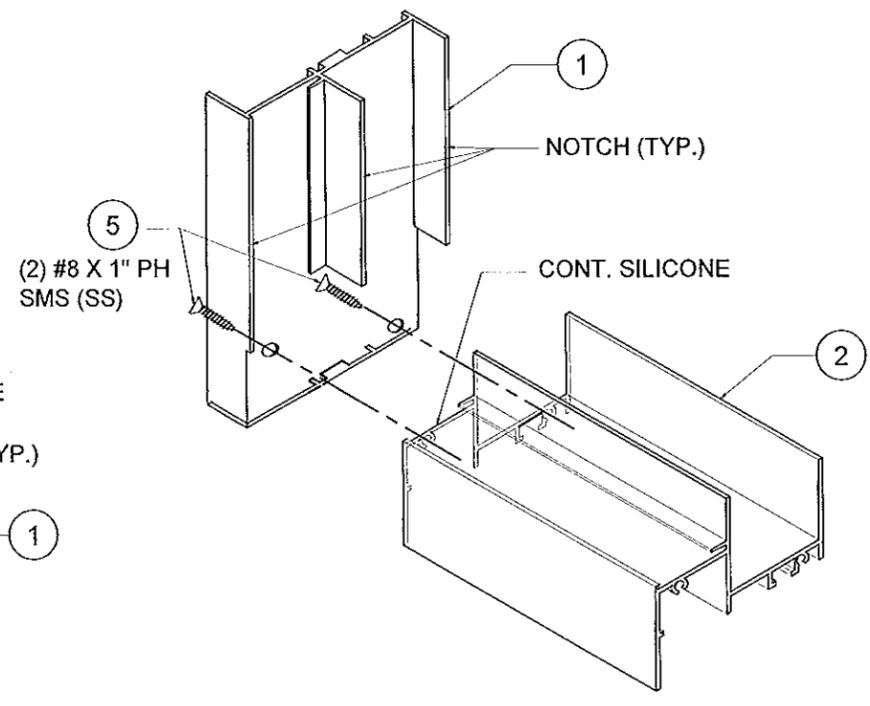
02 **FRAME HEAD, SILL OR JAMB**
FSP 015



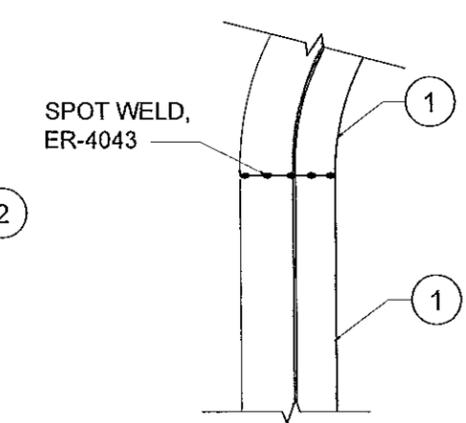
03 **GLAZING BEAD**
FSP 017



FRAME CORNER
SCALE 3/4 = 1"



FRAME CORNER
SCALE 3/4 = 1"



FRAME CORNER
SCALE 3/4 = 1"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0107.09
Expiration Date March 17, 2019
By *Manuel Jara*
Miami Dade Product Control
MIAMI DADE COUNTY

FEB 15 2014
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
Yiping Wang

DATE	11/14/12
SCALE	N.T.S.
DRAWN	W.L.
PROJECT	10-012
DRAWING NO.	AD10-06
SHEET	5 OF 5

NO.	DATE	DESCRIPTION
1	3/15/12	UPDATE TO 2010 FBC
2	2/17/14	REV. PER REVISION COMMENTS

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