



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/pera

Sol-A-Trol Aluminum Products, Inc.
4101 NW 132nd Street
Opa Locka, FL 33054

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 PERA - 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. PERA 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 "535" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 535FW, titled "Series 535 Aluminum Fixed Window (L.M.I.)", sheets 1 through 8 of 8, dated 02/06/12, with revision #1 dated 05/30/12. prepared by Stanton Engineering, Inc. Structural Engineering Services, signed and sealed by Christopher Stanton, 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 # 06-0911.01 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
7/5/12

NOA No. 12-0305.01
Expiration Date: March 15, 2017
Approval Date: July 12, 2012
Page 1

Sol-A-Trol Aluminum Products, Inc.

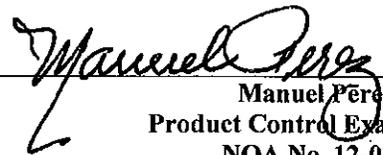
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **535FW**, Sheets 1 through 8 of 8, titled "Series 535 Aluminum Fixed Window (L.M.I.)", dated 02/06/12, with revision #1 dated 05/30/12, prepared by Stanton Engineering, Inc. Structural Engineering Services, signed and sealed by Christopher Stanton, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test,
2) Uniform Static Air Pressure Test,
3) Water Resistance Test,
4) Forced Entry Test, per SFBC 3603.2 (b)
along with marked-up drawings and installation diagram of a mulled single hung and fixed window, glazed with 21/64" and 5/16" HS. glass, prepared by Hurricane Engineering and Testing Laboratory, Inc., Test Report No. **HETI-04-1398**, dated 07/22/04, signed and sealed by Ivonne Ghia, P.E.
(Submitted under previous NOA#06-0911.01)
2. 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 a mulled single hung and fixed window, glazed with 5/16" and 7/16" HS laminated glass, prepared by Hurricane Engineering and Testing Laboratory, Inc., Test Report No. **HETI-05-1912**, dated 12/21/05, signed and sealed by Gilbert Diamond, P.E.
(Submitted under previous NOA#06-0911.01)
3. Test reports on: 1) Air Infiltration Test,
2) Uniform Static Air Pressure Test,
3) Water Resistance Test,
4) Forced Entry Test, per SFBC 3603.2 (b)
along with marked-up drawings and installation diagram of a mulled single hung and fixed window, glazed with 7/16" ANN. glass, prepared by Hurricane Engineering and Testing Laboratory, Inc., Test Report No. **HETI-05-1460**, dated 08/05/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under previous NOA#06-0911.01)
4. 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 a mulled single hung and fixed window, glazed with 7/16" ANN. laminated glass, prepared by Hurricane Engineering and Testing Laboratory, Inc., Test Report No. **HETI-05-2056**, dated 12/14/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under previous NOA#06-0911.01)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 12-0305.01
Expiration Date: March 15, 2017
Approval Date: July 12, 2012

Sol-A-Trol Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. 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 a mulled single hung and fixed window, glazed with 7/16" ANN. laminated glass, prepared by Hurricane Engineering and Testing Laboratory, Inc., Test Report No. **HETI-05-1966**, dated 11/14/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under previous NOA#06-0911.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 01/25/12, prepared by Stanton Engineering, Inc., signed and sealed by Christopher Stanton, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

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. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
3. Notice of Acceptance No. **08-1224.04** issued to Solutia, Inc. for their "**Saflex Composites Glass Interlayer with PET Core**" dated 02/25/09, expiring on 12/11/13.
4. Notice of Acceptance No. **11-0325.05** issued to Solutia, Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.

F. STATEMENTS

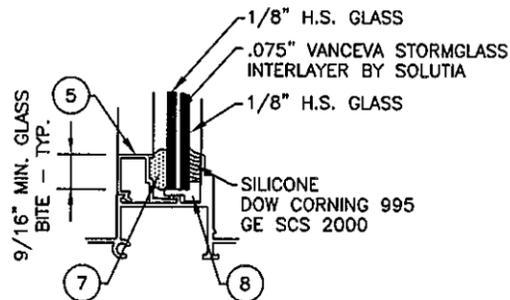
1. Statement letter of conformance, complying with FBC-2010, dated February 08, 2012, signed and sealed by Christopher Stanton, P.E.
2. Statement letter of no financial interest, dated January 25, 2012, signed and sealed by Christopher Stanton, P.E.

G. OTHER

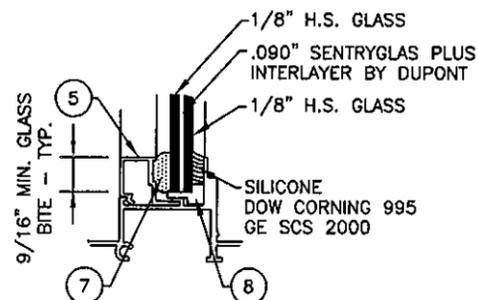
1. Notice of Acceptance No. **06-0911.01**, issued to Arso Enterprises dba Sol-A-Trol Aluminum Products for their Series 535 Aluminum Fixed Window – L.M.I., approved on 03/15/07 and expiring on 03/15/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0305.01
Expiration Date: March 15, 2017
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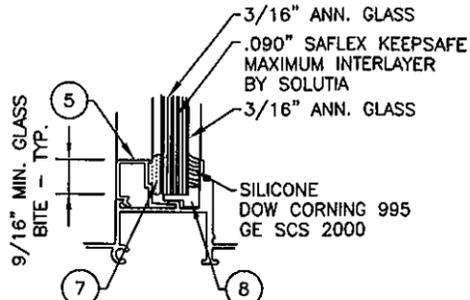
GLAZING OPTIONS



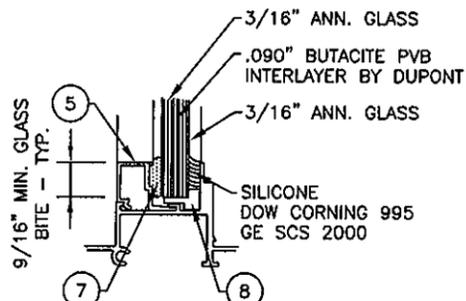
GLASS TYPE 'A'



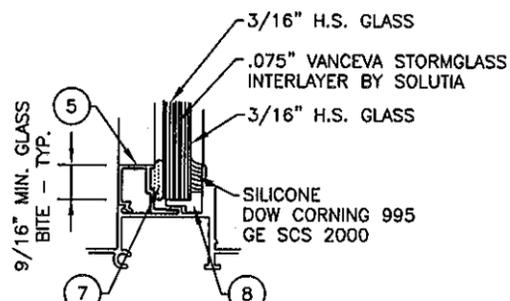
GLASS TYPE 'B'



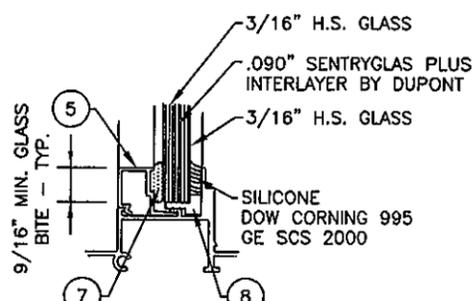
GLASS TYPE 'C'



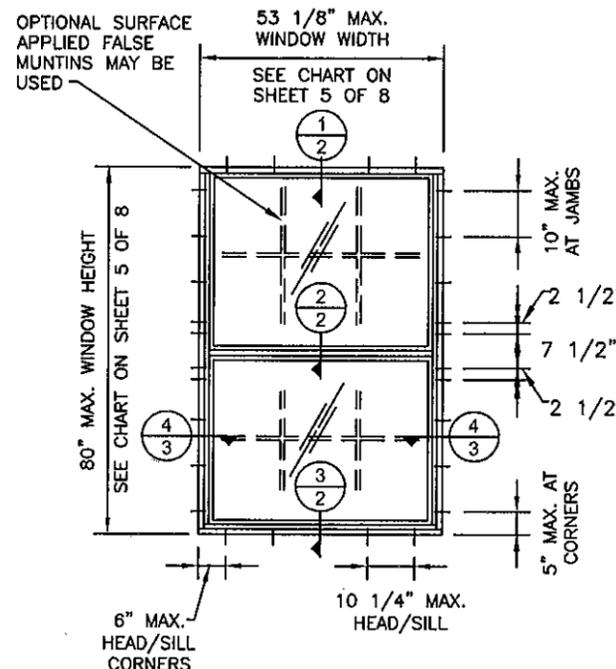
GLASS TYPE 'D'



GLASS TYPE 'E'



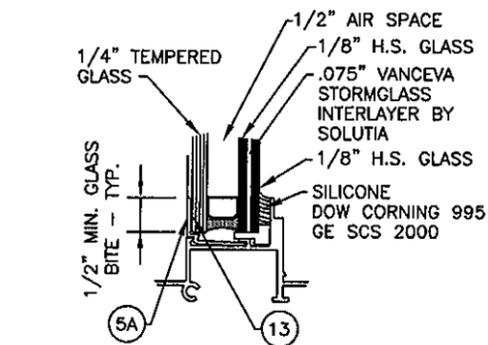
GLASS TYPE 'F'



TYPICAL ELEVATION WITH INT. HORIZ.

TESTED UNIT

NOTE:
 (1) ANCHOR REQUIRED EACH SIDE OF INTERMEDIATE HORIZONTAL. FOR ANCHOR TYPES 1, 2 & 6 WHERE D.P. EXCEEDS +/-56.0 PSF, INSTALL (2) ANCHORS EACH SIDE OF INTERMEDIATE HORIZONTAL



GLASS TYPE 'G' ⚠

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES 535 ALUMINUM FIXED WINDOW

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 5 OF 8.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007/2010 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

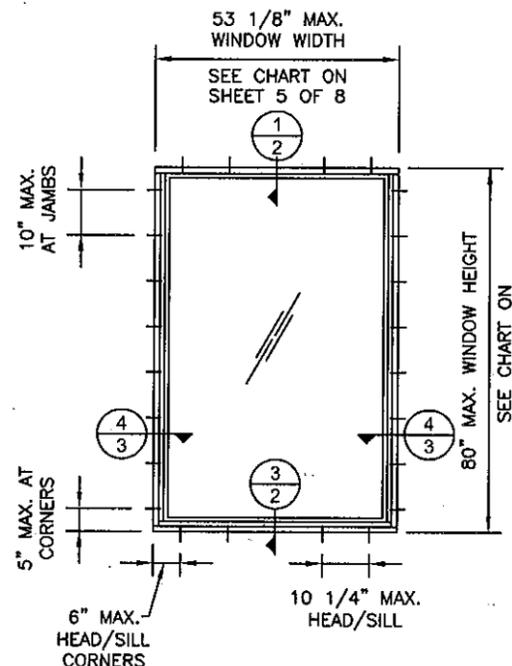
WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT INTO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

A LOAD DURATION INCREASE IN ALLOWABLE STRESS WAS NOT USED IN DESIGN OF THIS SYSTEM.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007/2010 FLORIDA BLDG. CODE



TYPICAL ELEVATION WITHOUT INT. HORIZ.

TESTED UNIT

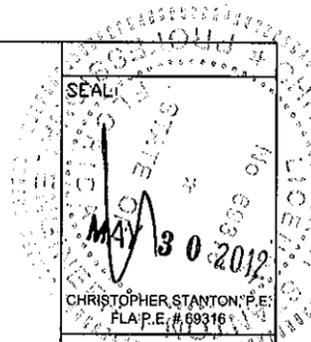


**LAMINATED GLASS
 LARGE MISSILE IMPACT**

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 12-0305.01 Expiration Date March 15, 2017
 By *Manuel Jerez*
 Miami Dade Product Control

NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
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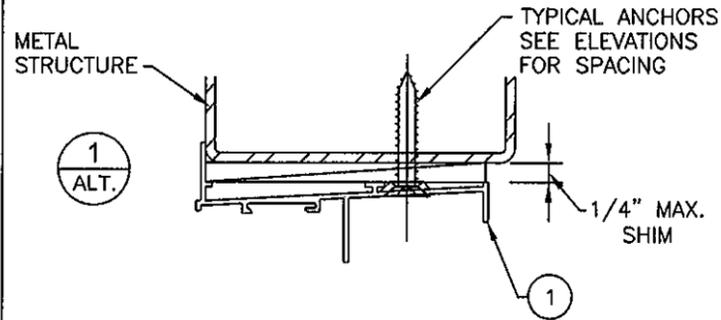
STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
 2701 NW BOCA RATON BLVD. SUITE 115
 BOCA RATON, FL 33431
 TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES 535 ALUMINUM FIXED WINDOW (L.M.I.)
SOL-A-TROL
 aluminum products, inc.
 4101 N.W. 132nd Street
 Miami, Florida 33054
 Phone: (305) 681-2020
 Fax: (305) 681-2035

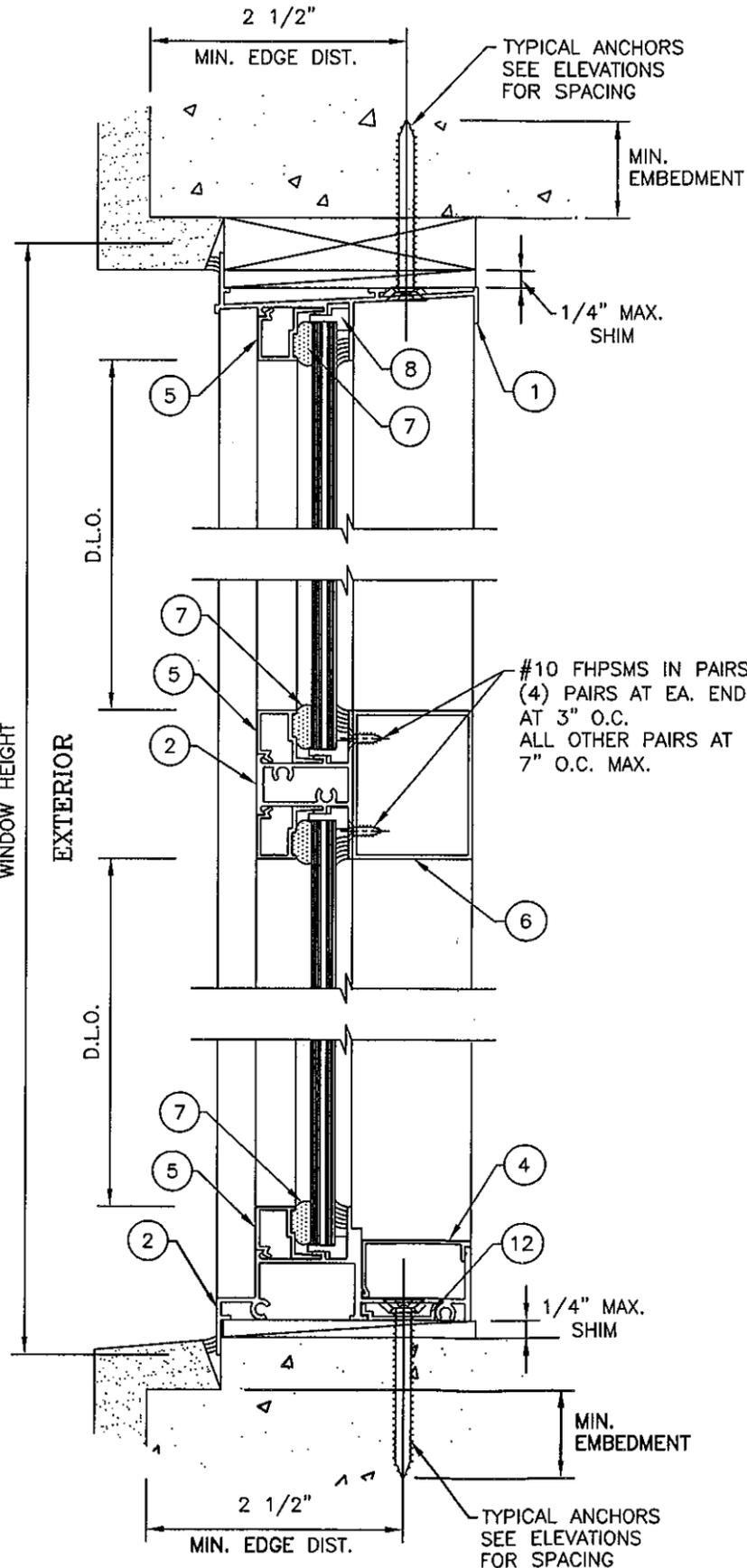
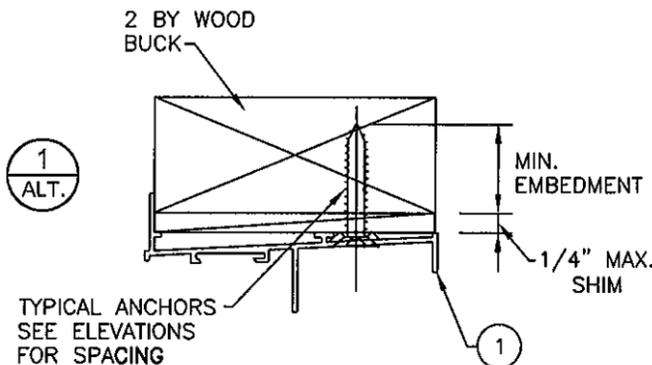
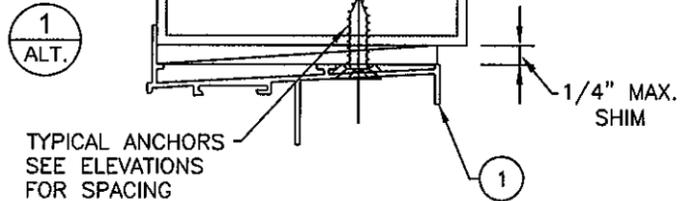
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 CHECKED BY: C.S.

535FW
 DRAWING NO.

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MIAMI-DADE COUNTY APP'D. MULLION. SEE SEPARATE N.O.A.



WOOD BUCKS AND METAL STRUCTURE NOT BY SOL-A-TROL MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:
SEE ELEVATIONS FOR SPACING

TYPE 1 - 1/4" TAPCONS

THRU 1BY WOOD BUCKS INTO 3000 PSI MIN. CONC. OR C-90 GROUT FILLED BLOCK. 1 1/4" MIN. EMBED. INTO CONC. OR MASONRY

DIRECTLY INTO 3000 PSI MIN. CONCRETE OR C-90 GROUT FILLED BLOCK. 1 1/4" MIN. EMBED. INTO CONC. OR MASONRY

TYPE 2 - 1/4" TAPCONS

INTO 2BY WOOD BUCKS OR WOOD SUBSTRATES 1 1/2" MIN. PENETRATION INTO #2 SYP (G=0.55)

TYPE 3 - #14 SMS (MIN. GRADE 2 CRS)

INTO METAL STRUCTURES

METAL STUDS: 16 GA. MIN.
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" MIN. THK. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE 4 - 1/4" ELCO DRILL FLEX

INTO METAL STRUCTURES

METAL STUDS: 16 GA. MIN.
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" MIN. THK. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE 5 - #12 SMS (MIN. GRADE 2 CRS)

INTO APPROVED MULLIONS (1/8" MIN. THK.)
1/4" MAX. SHIM SPACE

TYPE 6 - #14 WOOD SCREWS

INTO 2BY WOOD BUCKS OR WOOD SUBSTRATES 1 3/8" MIN. PENETRATION INTO #2 SYP (G=0.55)

TYPICAL EDGE DISTANCE

INTO CONC. OR MASONRY = 1 1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

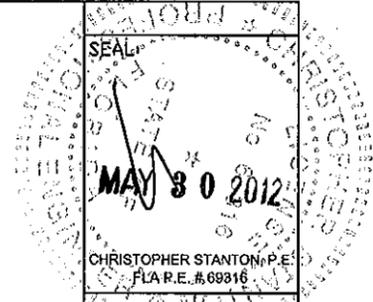
SEALANTS:

ALL FRAME AND VENT CORNERS SEALED WITH SCHNEE MOREHEAD SEAM SEALER.

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-0305.01
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By *Maurice Jerez*
Miami/Dade Product Control



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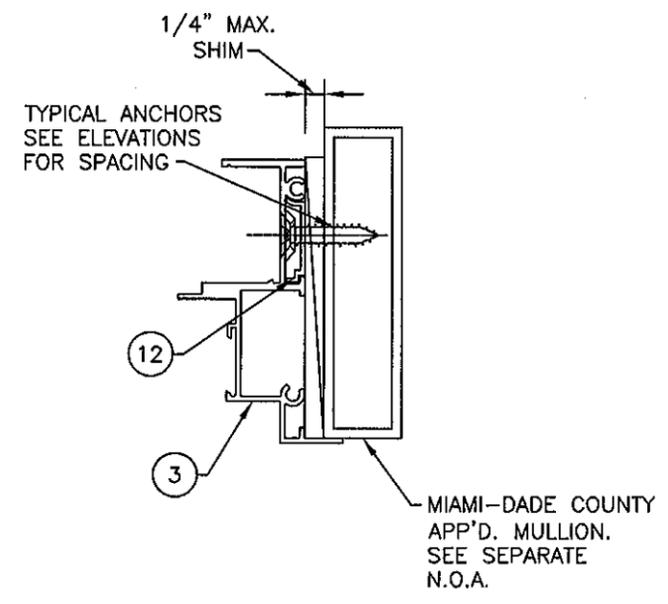
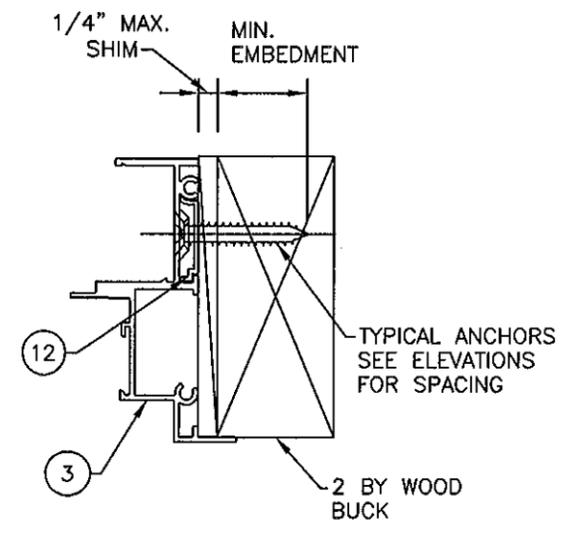
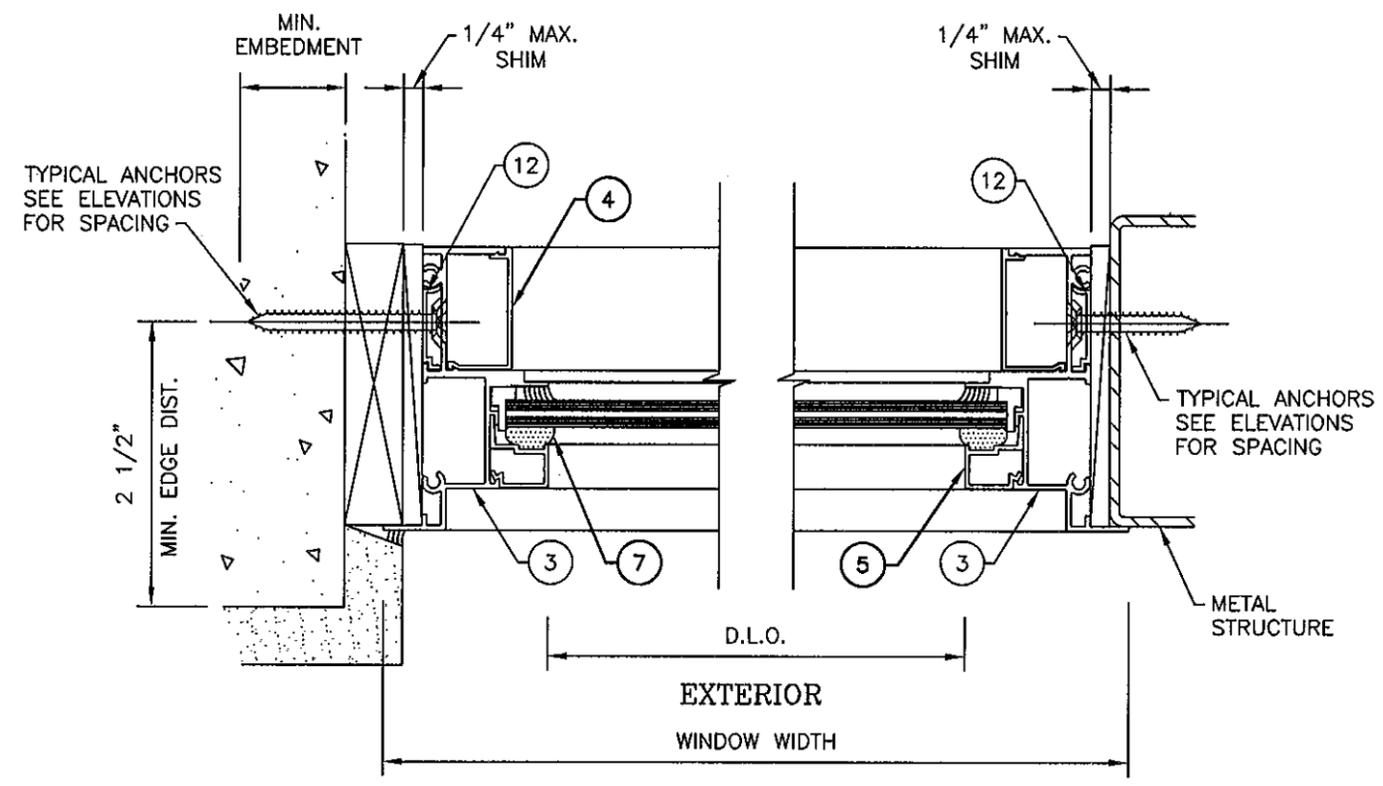
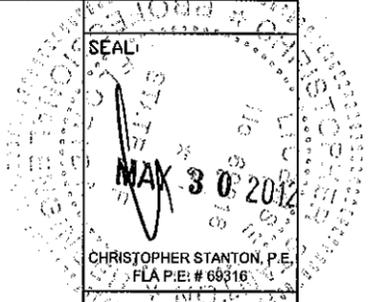
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CHECKED BY: C.S.

535FW
DRAWING NO.

SHEET NO.

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NO.	DATE	REVISIONS
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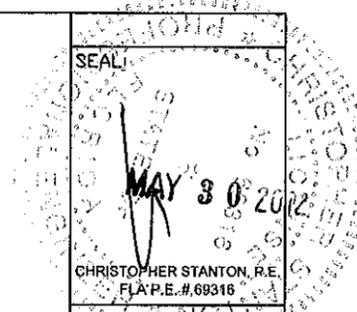
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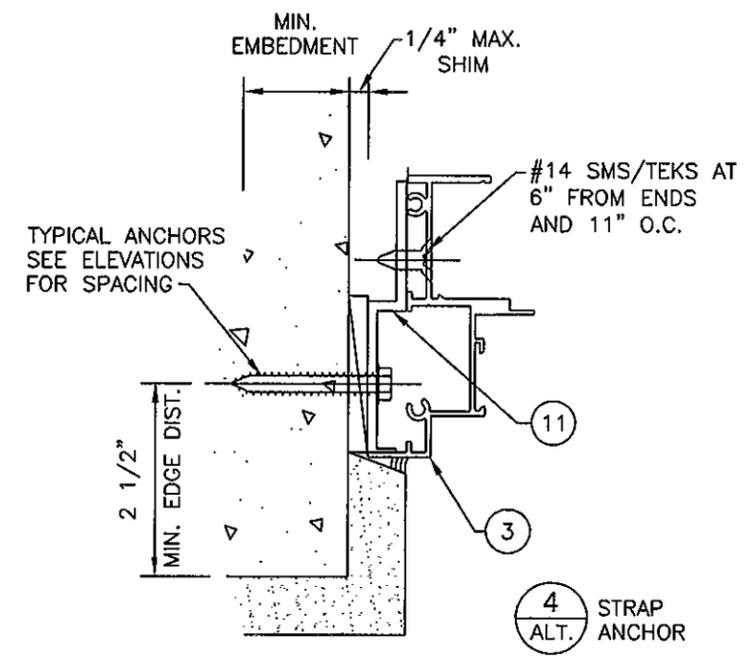
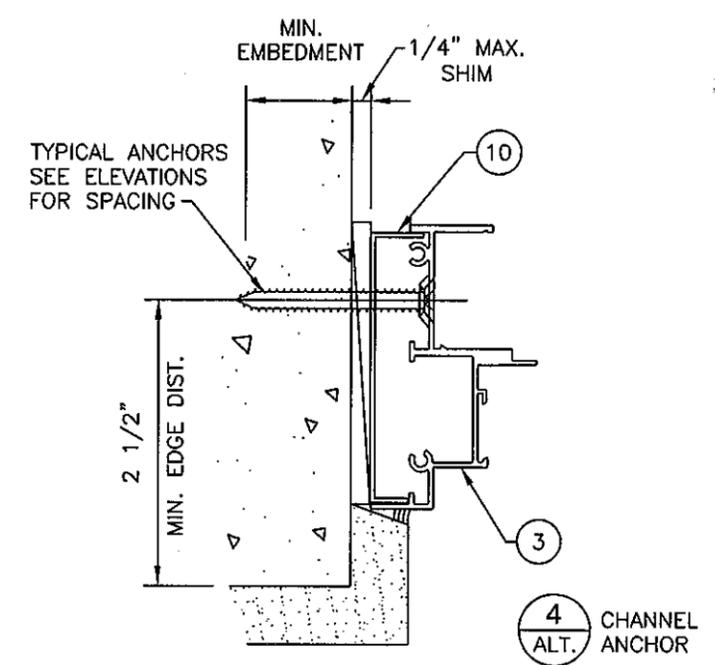
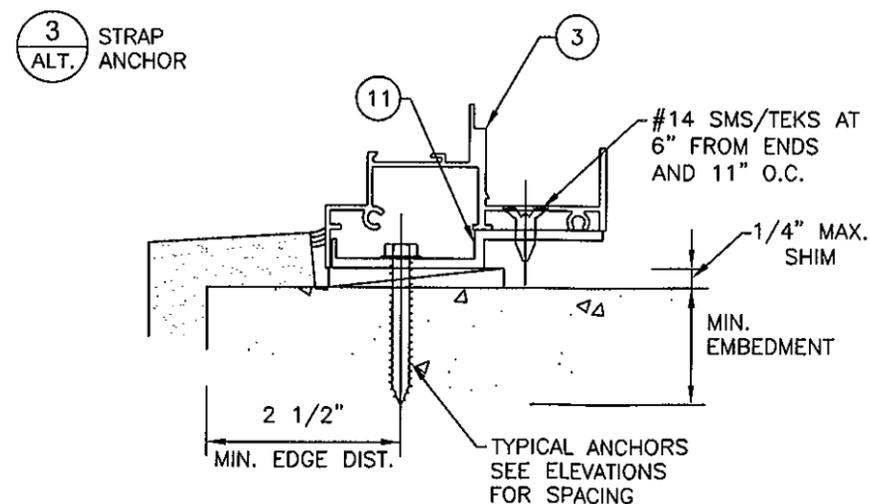
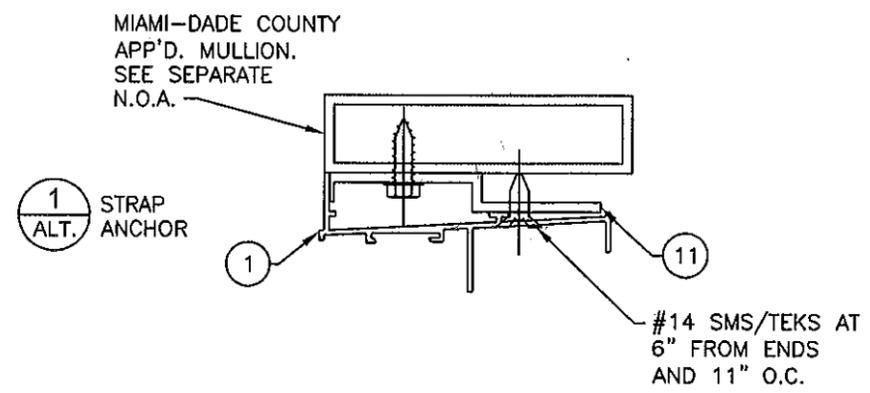
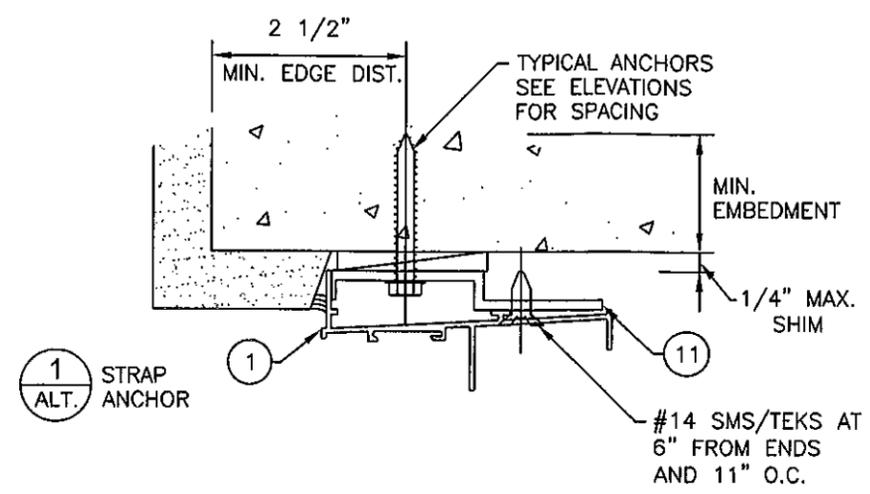
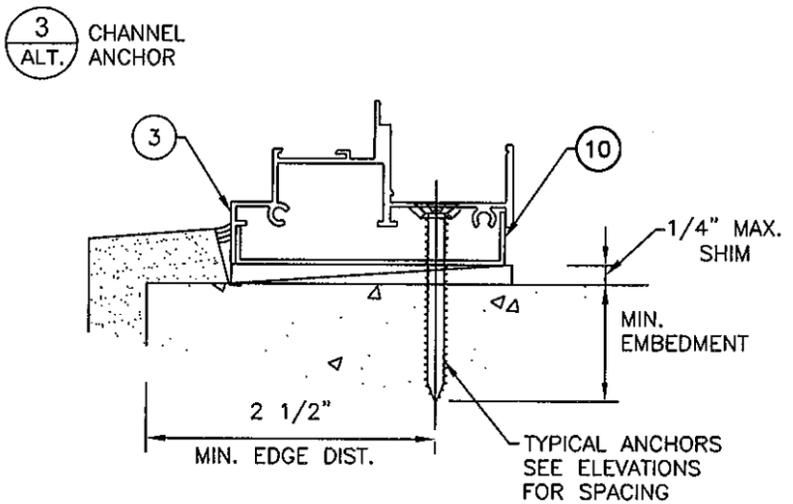
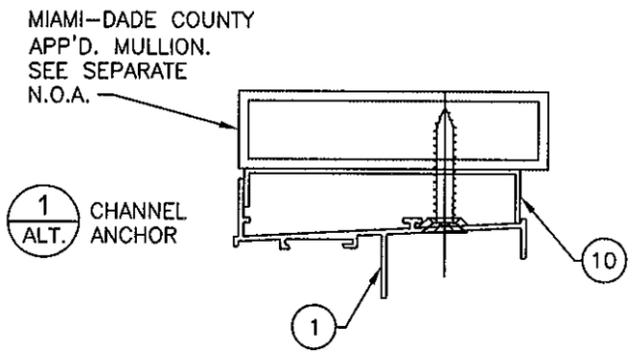
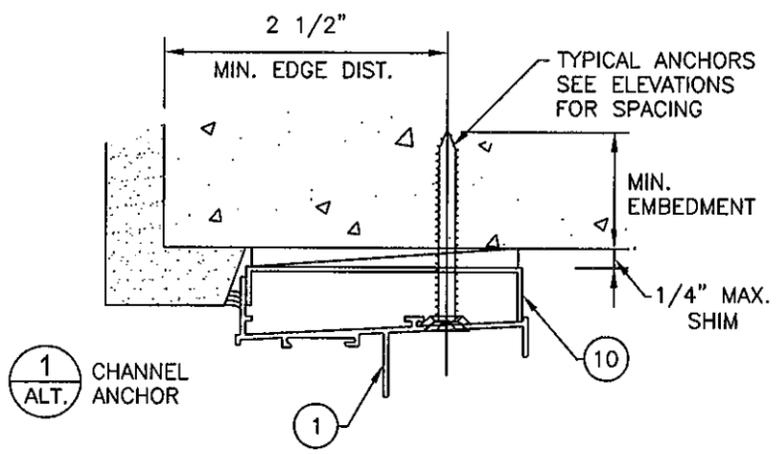
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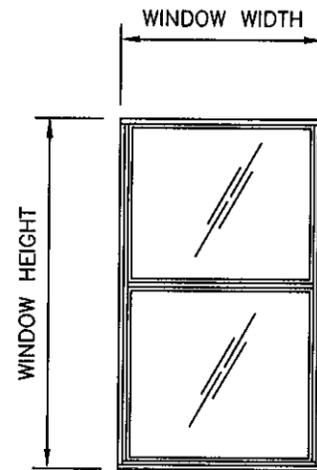
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NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
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**INSTALLATION DETAILS FOR ALTERNATE
 CHANNEL AND STRAP ANCHORS**

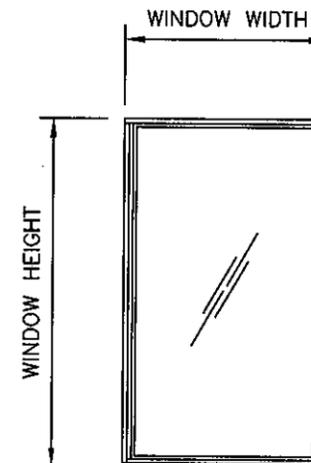
MIAMI-DADE COUNTY USE ONLY
 PRODUCT REVISED
 as complying with the Florida
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 By *Manuel Perez*
 Miami Dade Product Control



DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPES 'C' & 'D'		GLASS TYPES 'E' & 'F'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	38-3/8"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	50-5/8"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	80.0	80.0	86.7	100.0	
26-1/2"	60"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	80.0	80.0	86.7	100.0	
26-1/2"	63"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	80.0	80.0	86.7	100.0	
26-1/2"	72"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	80.0	80.0	86.7	100.0	
26-1/2"	74-1/4"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	-	-	86.7	100.0	
26-1/2"	80"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"	86.7	100.0	-	-	86.7	100.0	
26-1/2"	84"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	-	-	86.7	100.0
26-1/2"	90"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	96"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"	86.7	100.0	-	-	86.7	100.0	

NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
2		
3		
4		
5		

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPES 'C' & 'D'		GLASS TYPES 'E', 'F' & 'G'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	40"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
48"		86.7	100.0	80.0	80.0	86.7	100.0
53-1/8"		86.7	100.0	-	-	86.7	100.0
26-1/2"	45"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	48"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	50-5/8"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
42"		86.7	100.0	-	-	86.7	100.0
26-1/2"	60"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
37"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	63"	86.7	100.0	80.0	80.0	86.7	100.0
32"		86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	74-1/4"	86.7	100.0	80.0	80.0	86.7	100.0
26-1/2"	80"	86.7	100.0	-	-	86.7	100.0
53 1/8"		-	-	-	-	87.0	100.0



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

MIAMI-DADE COUNTY USE ONLY
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305.01
Expiration Date March 15, 2017
By *Manuel Ruiz*
Miami Dade Product Control

SEAL:
MAY 30 2012
CHRISTOPHER STANTON, P.E.
FLA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

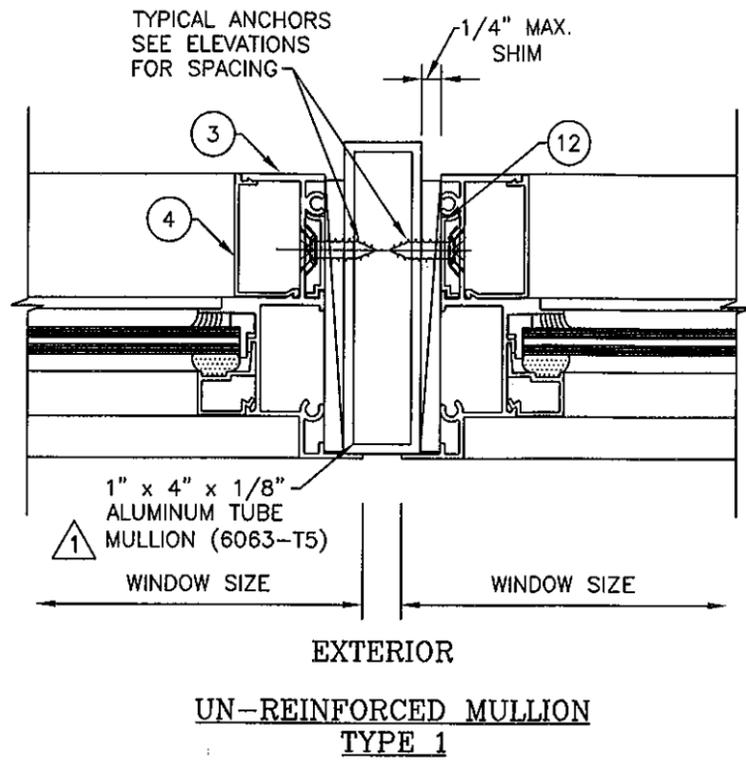
SERIES 535 ALUMINUM FIXED WINDOW (L.M.I.)
SOL-TROL
aluminum products, inc.
4101 N.W. 132nd Street
Miami, Florida 33054
Phone: (305) 681-2020
Fax: (305) 681-2035

SCALE: NOTED
DATE: 2/6/12
DRAWN BY: DGI
CHECKED BY: C.S.

535FW
DRAWING NO.

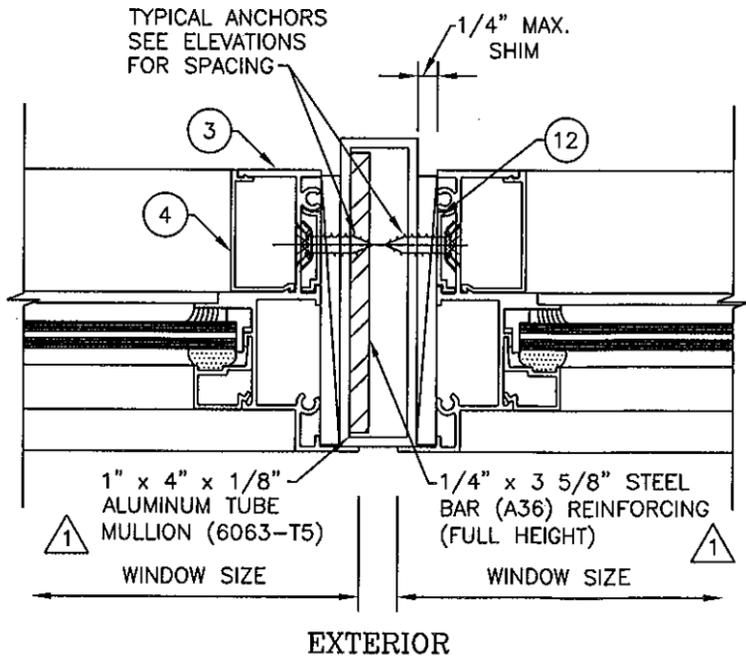
SHEET NO.
5 of 8

MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		TYPE '1'	TYPE '2'
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
26-1/2"	38-3/8"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
53-1/8"		100.0	100.0
26-1/2"	50-5/8"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
53-1/8"		100.0	100.0
26-1/2"	60"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
53-1/8"		100.0	100.0
26-1/2"	63"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
53-1/8"		100.0	100.0
26-1/2"	74"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
53-1/8"		100.0	100.0
26-1/2"	80"	100.0	100.0
32"		100.0	100.0
37"		100.0	100.0
42"		100.0	100.0
48"		95.0	100.0
53-1/8"		86.0	100.0



UN-REINFORCED MULLION
TYPE 1

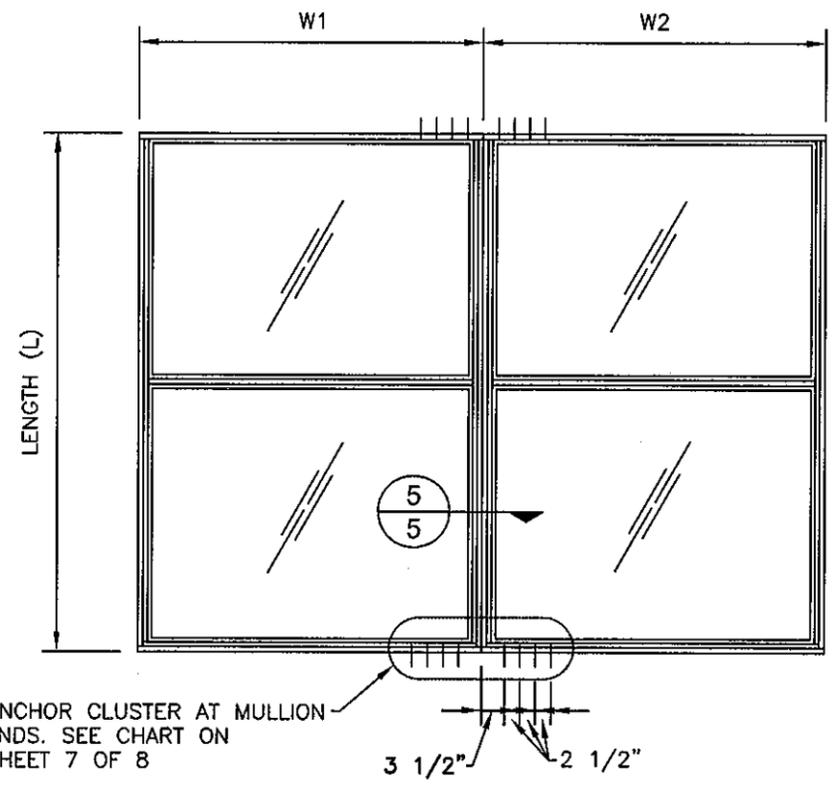
5
5



REINFORCED MULLION
TYPE 2

5
5

ALT.



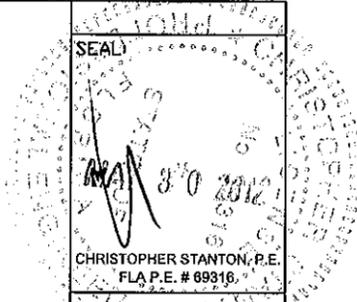
TYPICAL ELEVATION
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO 2 OR MORE WINDOWS
ALL OTHER ANCHORS PER
ELEVATION ON SHEET 1 OF 8

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

- NOTES:**
1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
 2. FOR SINGLE WINDOW CAPACITY SEE SHEET 5 OF 8.
 3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

MIAMI-DADE COUNTY USE ONLY
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305.01
Expiration Date March 15, 2017
By *Manuel Perez*
Miami Dade Product Control

NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
2		
3		
4		
5		



STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD, SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

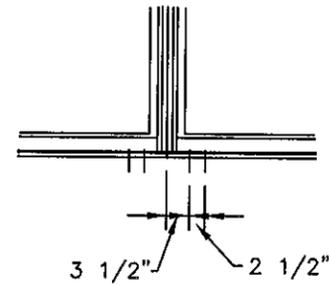
SERIES 535 ALUMINUM FIXED WINDOW (L.M.I.)
SOL-A-TROL
aluminum products, inc.
4101 N.W. 132nd Street
Miami, Florida 33054
Phone: (305) 681-2020
Fax: (305) 681-2035

SCALE: NOTED
DATE: 2/8/12
DRAWN BY: DGI
CHECKED BY: C.S.

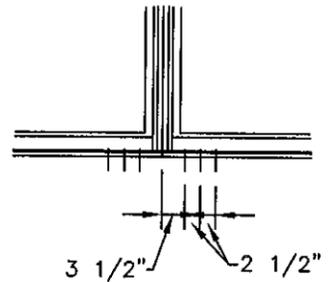
535FW
DRAWING NO.

SHEET NO.

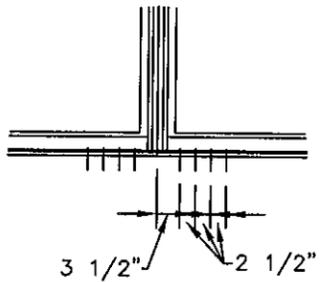
6 of 8



(2) EA. SIDE



(3) EA. SIDE



(4) EA. SIDE

WINDOW DIMS.		MULLION ANCHOR LOAD CAPACITY - PSF																
		ANCHOR TYPE 1				ANCHOR TYPE 2				ANCHOR TYPE 3		ANCHOR TYPE 4		ANCHOR TYPE 5		ANCHOR TYPE 6		
WIDTH (W)	LENGTH (L)	(2) EA. SIDE		(3) EA. SIDE		(3) EA. SIDE		(4) EA. SIDE		(2) EA. SIDE		(2) EA. SIDE		(2) EA. SIDE		(3) EA. SIDE		
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
26-1/2"	38-3/8"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	50-5/8"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	60"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	86.0	86.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	86.0	86.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	63"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	82.0	82.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	82.0	82.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	72"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	80.0	80.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	72.0	72.0	90.0	100.0	90.0	100.0	90.0	94.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	72.0	72.0	90.0	100.0	90.0	100.0	90.0	94.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	76"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	90.0	98.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	90.0	91.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	75.0	75.0	90.0	100.0	90.0	99.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	68.0	68.0	90.0	100.0	89.0	89.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	80"	37"	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		40"	93.0	93.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		48"	86.0	86.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	72.0	72.0	90.0	100.0	90.0	94.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	100.0
		53-1/8"	65.0	65.0	90.0	97.0	85.0	85.0	90.0	100.0	90.0	100.0	90.0	100.0	90.0	99.0	90.0	97.0

ALL OTHER ANCHORS PER
ELEVATION ON SHEET 1 OF 8

NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
2		
3		
4		
5		

MIAMI-DADE COUNTY USE ONLY
 PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0305.01
 Expiration Date March 15, 2017
 By *Mauro Peres*
 Miami Dade Product Control

SEAL
 MAY 30 2012
 CHRISTOPHER STANTON, P.E.
 FLA. P.E. # 69316

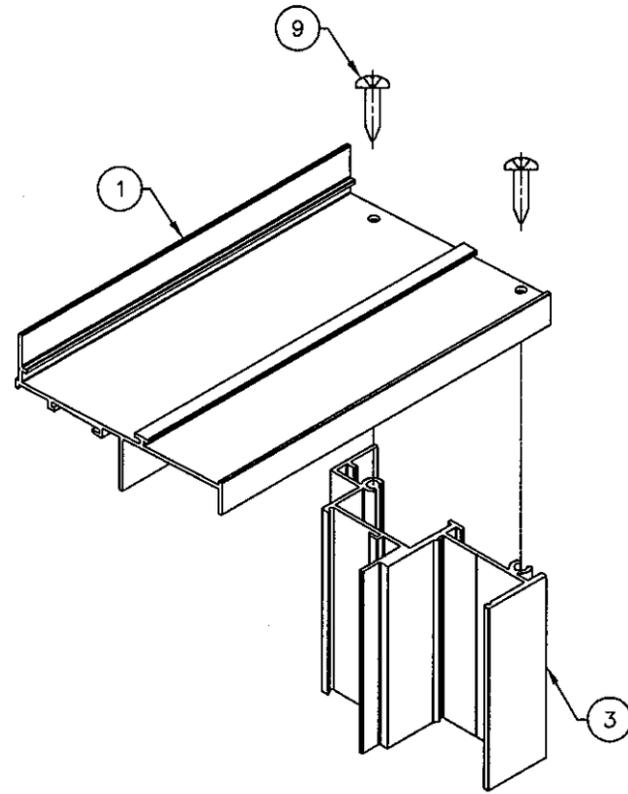
STANTON ENGINEERING, INC.
 STRUCTURAL ENGINEERING SERVICES
 2701 NW BUCA RATON BLVD. SUITE 115
 BUCA RATON, FL 33431
 TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES 535 ALUMINUM FIXED
 WINDOW (L.M.I.)
 SOL-A-TROL
 aluminum products, inc.
 4101 N.W. 132nd Street
 Miami, Florida 33054
 Phone: (305) 681-2020
 Fax: (305) 681-2035

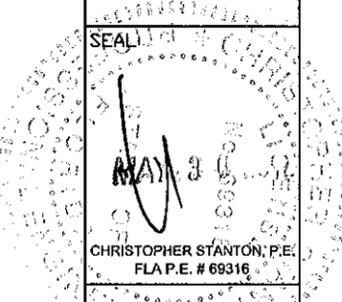
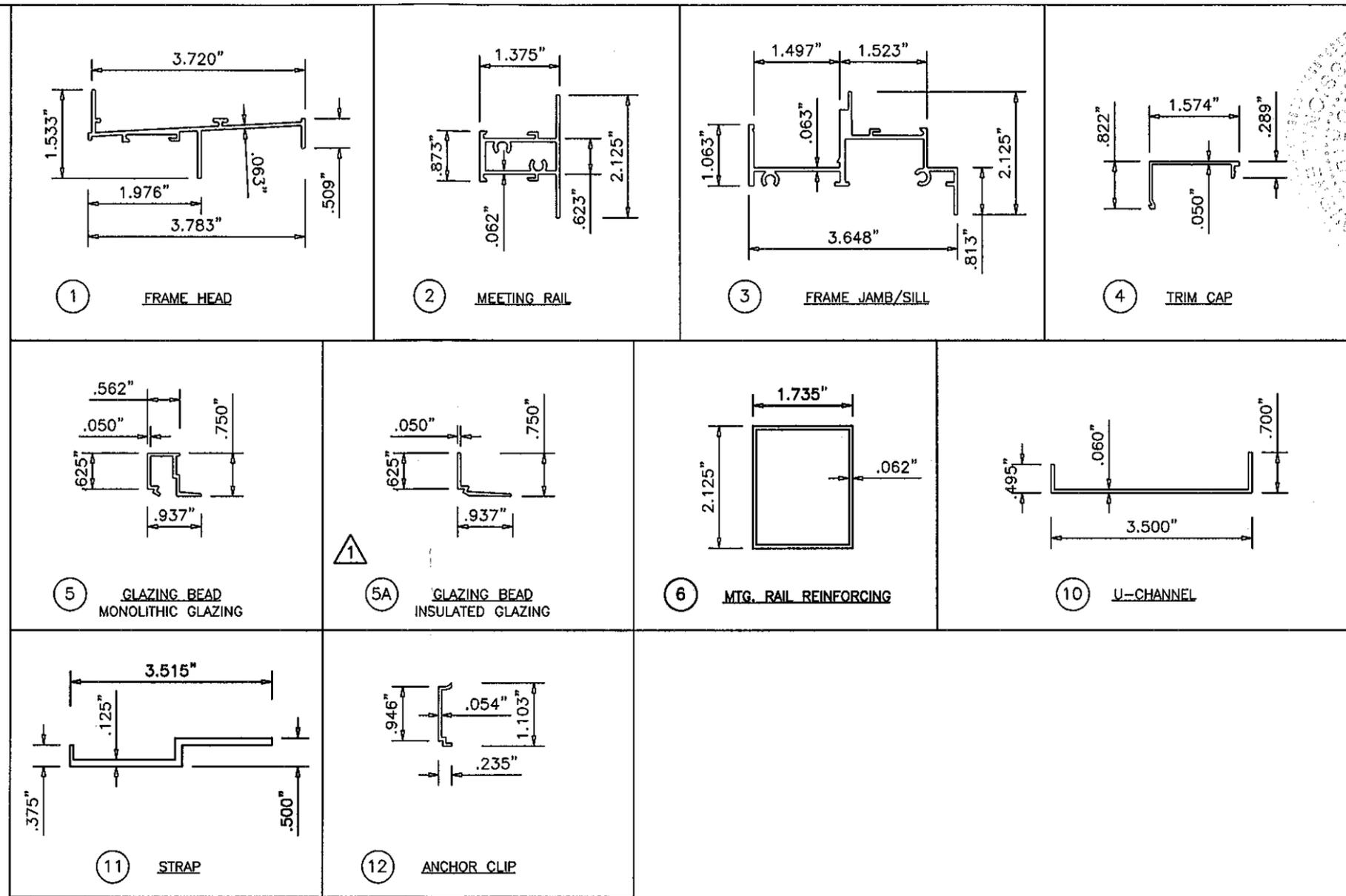
SCALE: NOTED
 DATE: 2/6/12
 DRAWN BY: DGI
 CHECKED BY: C.S.

535FW
 DRAWING NO.
 SHEET NO.

7 of 8



FRAME CORNERS



STANTON ENGINEERING, INC.
 STRUCTURAL ENGINEERING SERVICES
 2701 NW BOCA RATON BLVD. SUITE 115
 BOCA RATON, FL 33431
 TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES 535 ALUMINUM FIXED WINDOW (L.M.I.)
 SOL-A-TROL
 aluminum products, Inc.
 4101 N.W. 132nd Street
 Miami, Florida 33054
 Phone: (305) 681-2020
 Fax: (305) 681-2035

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ARSO-954	1	FRAME HEAD	6063-T6	-
2	ARSO-952	1	MEETING RAIL	6063-T5	-
3	ARSO-955	2	FRAME JAMB/SILL	6063-T6	-
4	ARSO-961	1	TRIM CAP	6063-T6	-
5	ARSO-953	AS RQD.	GLAZING BEAD (MONOLITHIC)	6063-T6	-
5A	ARSO-991	AS RQD.	GLAZING BEAD (INSULATED)	6063-T6	-
6	-	1	MTG. RAIL REINFORCING	6063-T6	-
7	FP-40	AS RQD.	GLAZING WEDGE	VINYL	PROTOTYPE PLASTICS
8	326-FP-894B	AS RQD.	SETTING BLOCK	VINYL	PROTOTYPE PLASTICS
9	#10 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS
10	-	AS RQD.	U-CHANNEL	ALUMINUM	-
11	ARSO-979	AS REQD.	STRAP ANCHOR	6063-T5	-
12	-	AS REQD.	ANCHOR CLIP, 2" LONG	6063-T6	-
13	-	AS REQD.	1/8" x 1/2" GLAZING TAPE	PVC	-



NO.	DATE	REVISIONS
1	5/30/12	PER ADD'L. TESTING / BCCO REVIEW
2		
3		
4		
5		

MIAMI-DADE COUNTY USE ONLY
 PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0305.01
 Expiration Date March 15, 2017
 By *Manuel Perez*
 Miami Dade Product Control

SCALE: NOTED
 DATE: 2/6/12
 DRAWN BY: DGI
 CHECKED BY: C.S.

535FW
 DRAWING NO.

SHEET NO.
 8 of 8