



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

**Miami Wall Systems, Inc.  
701 West 25<sup>th</sup> 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 of the Florida Building Code.

**DESCRIPTION: Series 104 Aluminum Single Hung Window w/ Steel reinforced M.R. – S.M .Impact**

**APPROVAL DOCUMENT:** Drawing No. MWS104-S.M., titled “ Series 104 Single Hung-Small Missile Impact”, dated 10-24-03 and last revised on 04-14-04, sheets 1 through 3, prepared by manufacturer, signed and sealed by Sifang Zhao, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 and evidence page1, as well as approval document mentioned above. The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

5/14



**NOA No 04-0113.02  
Expiration Date: May 27, 2009  
Approval Date: May 27, 2004  
Page 1**

**Miami Wall Systems, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **MWS104-S.M.**, titled "Series 104 Single Hung-Small Missile Impact", dated 10-24-03 and last revised on 04-14-04, sheets 1 through 3, prepared by manufacturer, signed and sealed by Sifang Zhao, P. E.

**B. TESTS (Test conducted under SFBC & Protocols PA 201-94, PA 202-94 & PA 203-94)**

1. Test reports on (Photo copies test report for qualification of Air, water & structural)
  - 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 Resistant test per TAS202-94 & AAMA 1302.5

along with marked-up drawings and installation diagram of aluminum single hung mulled windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2838 (00148)**, dated December 07, 2000, signed and sealed by Antonio Acevedo, P.E.

2. 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum single hung mulled w/ fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2539 (Report#18)**, dated Dec 21, 1999, reissued on 11-05-03 & 03-19-04 based on review, signed and sealed by Edmundo Largaespada, P.E. (Note: Original Test was witness by Aldo P. Gonzales, P. E.)

3. Test reports on
  - 1) Small 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 aluminum single hung mulled w/ single Hung windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3454 (02064)**, dated April 16, 2002, signed and sealed by Luis Figueredo, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, prepared by Miami Wall Systems, Inc., dated 12-08-03 and last revised on 03-11-04, signed and sealed by Sifang Zhao, P.E.

**D. QUALITY ASSURANCE BY:**

1. Miami-Dade County Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **03-0421.01** issued to Solutia Inc. for "Saflex HP®", expiring on 04/14/2008.

**F. STATEMENTS**

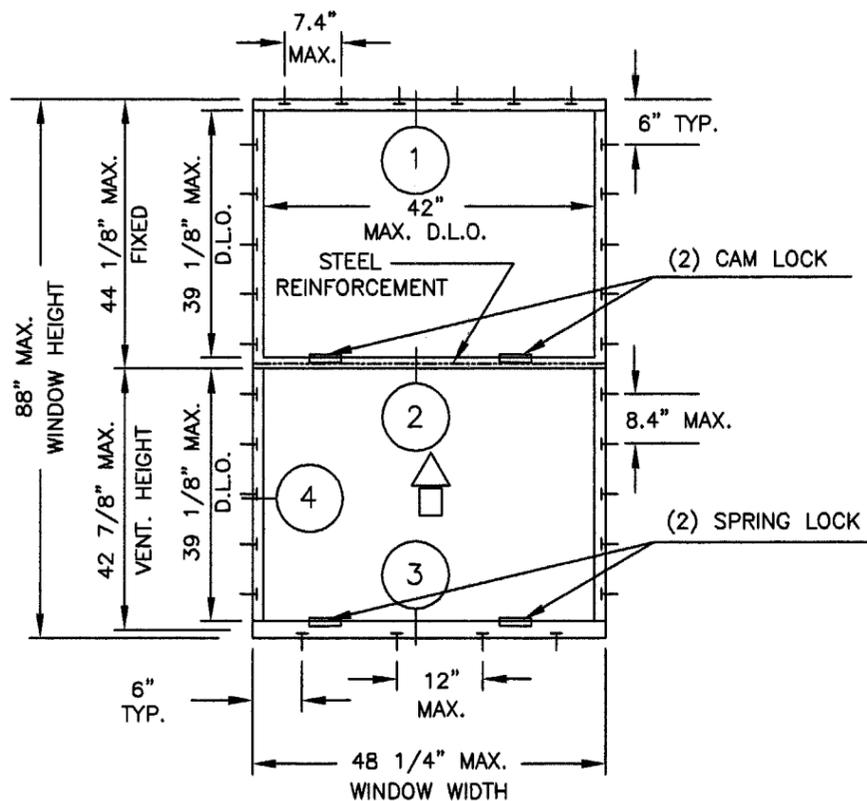
1. Statement letter of conformance & "No financial interest to lab", dated 11-13-03, signed and sealed by Sifang Zhao, P.E.
2. Statement of compliance by test lab, part of the above test reports.

**G. OTHER**

1. Proposal letter dated 10-13, 2003 by Miami-Wall Sys, approved on 10-16-03 by BCCO.

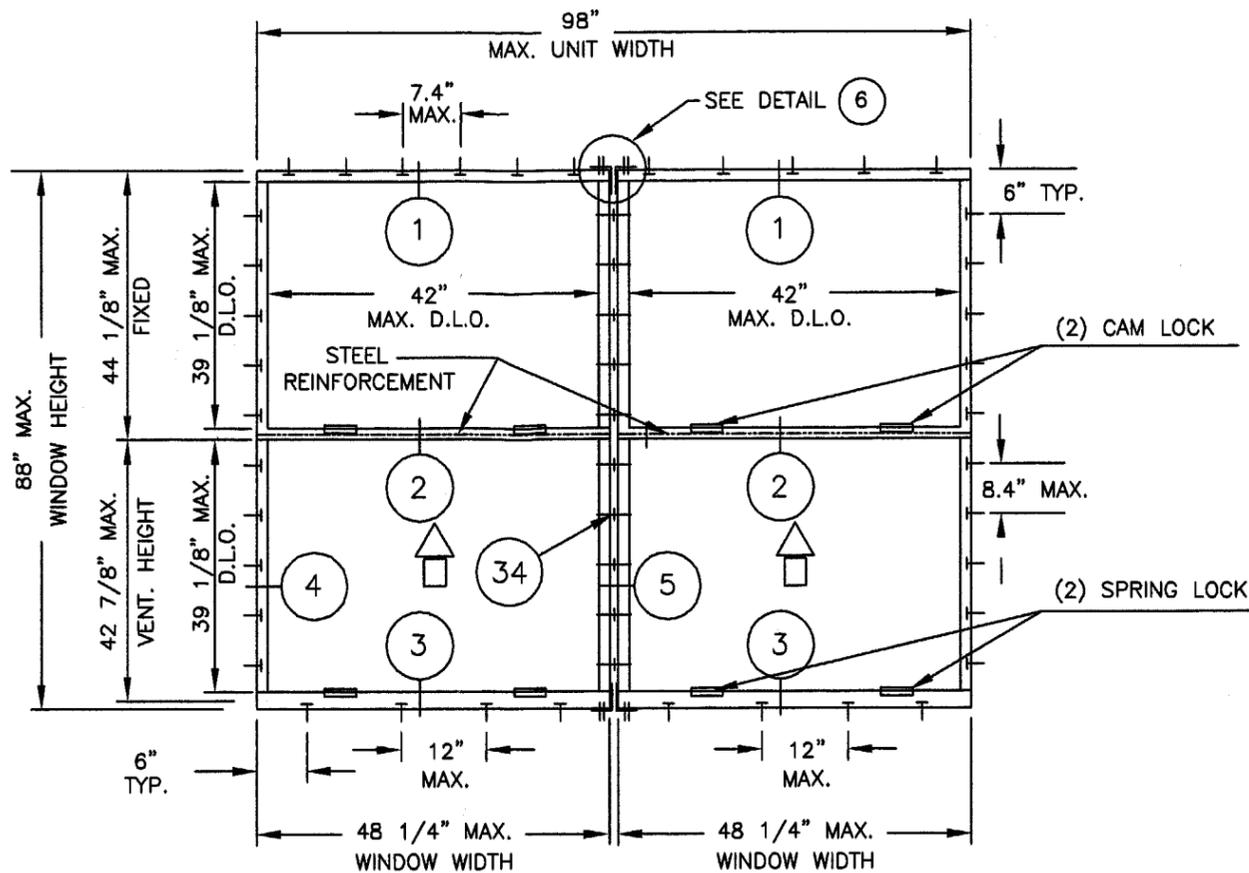
*Ishaq I. Chanda*  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 04-0113.02

Expiration Date: May 27, 2009  
Approval Date: May 27, 2004



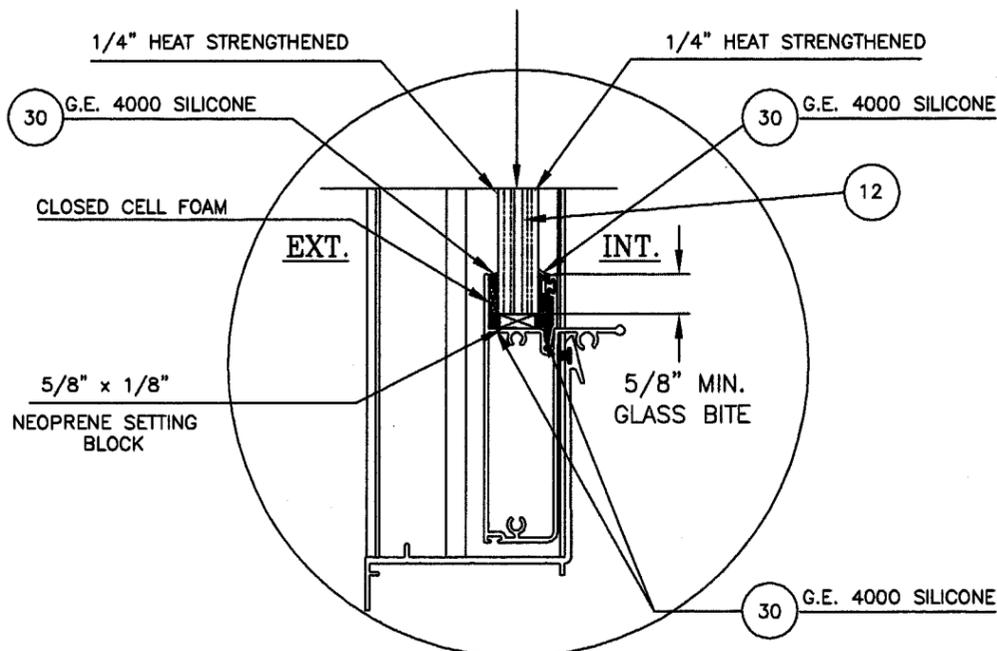
**TYPICAL ELEVATION (SINGLE UNITS)**  
STEEL REINFORCED MEETING RAIL

0.060" SAFLEX HP INTERLAYER PVB BY SOLUTIA



**TYPICAL ELEVATION (UNITS JAMBS  
MULLER TOGETHER W/ 2"x4" ALUM. TUBE)**  
(STEEL REINFORCED AT MEETING RAIL)

Approved as complying with the  
Florida Building Code  
Date: May 27, 2004  
NOA# 04-0113.02  
Miami Dade Product Control  
Division  
By: Shag I. Chand



**GLAZING DETAIL**

9/16" OVERALL HP LAMINATED, SMALL MISSILE

DESIGN PRESSURE (PSF)	
POSITIVE	90.0
NEGATIVE	100.0

**GENERAL NOTES:**

- 1"x4" OR 2"x4" P.T. WOOD BUCKS MUST BE ENGINEERED TO TAKE THE WIND LOADS IMPOSED BY WINDOWS AND TO BE REVIEWED BY BUILDING OFFICIAL.
- FRAME CORNER, FIXED PANEL & MULLION SEALED W/ SILICONE
- HURRICANE PROTECTION SYSTEM (SHUTTERS) INSTALLATION OF THIS SYSTEM UP TO 30 FT. ABOVE THE GRADE WILL REQUIRE HURRICANE PROTECTION SYSTEM, BUT INSTALLATIONS ABOVE 30 FT. GRADE WILL NOT REQUIRE A HURRICANE PROTECTION SYSTEM.
- ALL INSTALLATION FASTENERS MUST BE FACTORY PUNCHED FOR 1/4" DIAM. FLAT HEAD TAPCONS.

*Signature*  
4/14/04

**Miami Wall Systems, Inc.**  
701 West 25th street  
Hialeah, Florida, 33010  
Phone: (305) 888-2300 Fax: (305) 888-3058



**SERIES 104 SINGLE HUNG**

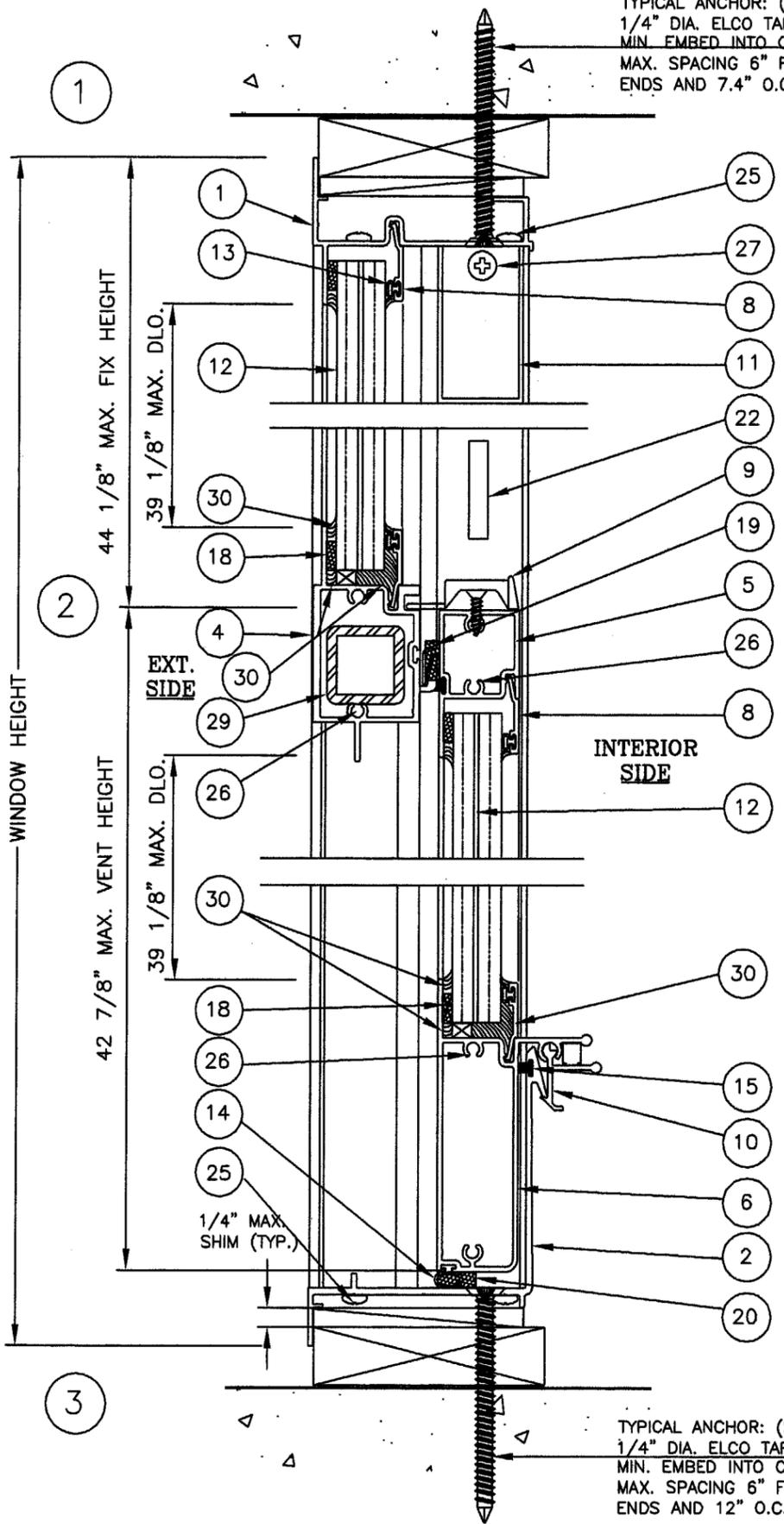
**SMALL MISSILE IMPACT**

no.	date	description
1	3-24-04	by Dade County comments

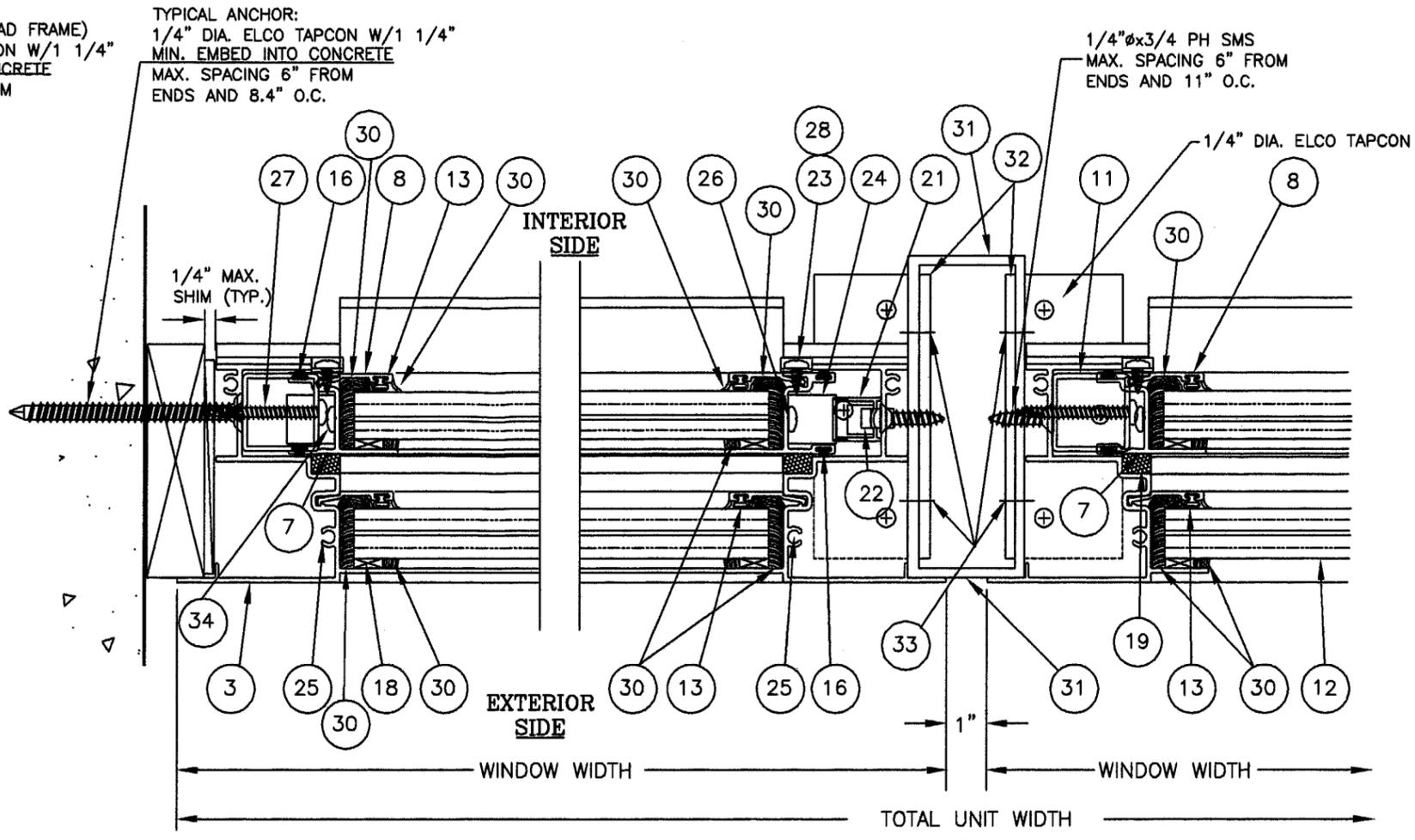
date: 10/24/03	scale: N.T.S.	design by: P.V.	drawn by:	checked by: P.V.
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drawing no.  
MWS104-S.M.

sheet 1 of 3

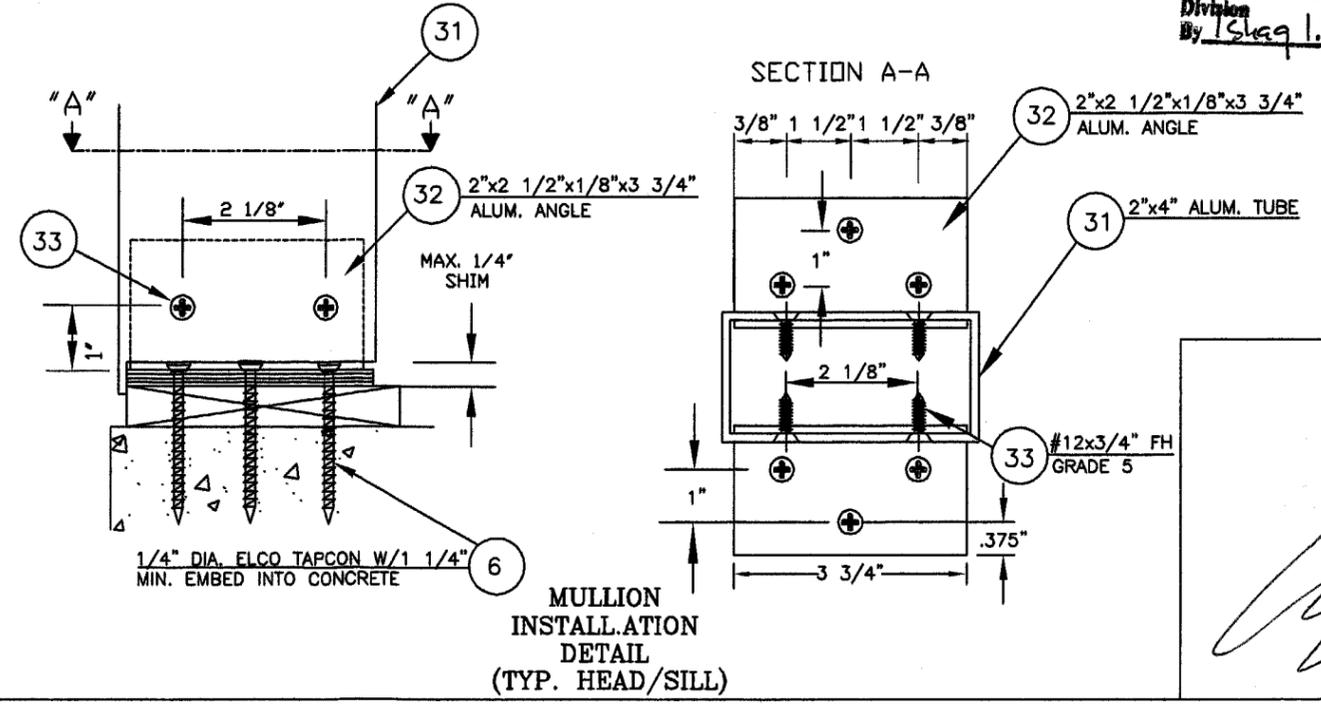


TYPICAL ANCHOR: (HEAD FRAME)  
1/4" DIA. ELCO TAPCON W/1 1/4"  
MIN. EMBED INTO CONCRETE  
MAX. SPACING 6" FROM  
ENDS AND 7.4" O.C.



TYPICAL ANCHOR:  
1/4" DIA. ELCO TAPCON W/1 1/4"  
MIN. EMBED INTO CONCRETE  
MAX. SPACING 6" FROM  
ENDS AND 8.4" O.C.

Approved as complying with the  
Florida Building Code  
Date: MAY 27, 2004  
NOA# 04-0113.02  
Miami Dade Product Council  
Division  
By Isaac I. Chanda



Miami Wall Systems, Inc.  
701 West 25th street  
Hialeah, Florida. 33010  
Phone:(305) 888-2300 Fax:(305) 888-3058

SERIES 104 SINGLE HUNG  
SMALL MISSILE IMPACT

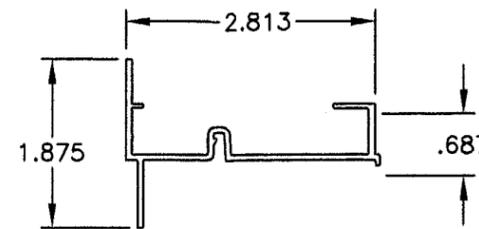
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1	3-24-04	by Dade County comments

date: 11/30/98  
scale: HALF  
design by: P.V.  
drawn by:  
checked by: P.V.

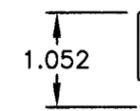
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MWS104-S.M.  
sheet 2 of 3

*4/14/04*

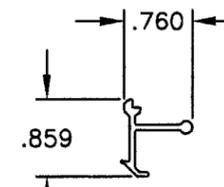
ITEM NO.	PART NO.	REQ'D	PART NAME	REMARKS
1	104-004	1	FRAME HEAD	FRAME
2	104-005	1	FRAME SILL	FRAME
3	104-001	2	FRAME JAMB	FRAME
4	104-006	1	FRAME MEETING RAIL	FRAME
5	104-007	1	VENT TOP RAIL	MOV. SASH
6	104-008	1	VENT BOTTOM RAIL	MOV. SASH
7	104-002	2	VENT JAMB	MOV. SASH
8	104-010	2	GLAZING BEAD	FRAME/MOV. SASH
9		2	SWEEP LATCH	FRAME/MOV. SASH
10	104-009	2	BOTTOM RAIL SNAP LOCK SPRING	BOT. RAIL/MOV. SASH
11		2	VNT STOP, AL TUBE 1x1x.062"x3" LG.	FRAME JAMBS
12		1	9/16" HS LAMINATED GLASS	SMALL MISSILE IMPACT RESIST.
13	600 VS	CONTINUOUS	VINYL BULB	GLAZING BEAD, SPACER
14		SNG'L ROW	VINYL BULB, WIBORG	VENT BOTTOM RAIL
15	.185x.315	SNG'L ROW	SCHLEGEL, PILE W/INTEGRAL PLT. FIN	MTG RAIL, VENT TOP & FR. SILL
16	.185x.315	DB'L ROW	SCHLEGEL, PILE W/INTEGRAL PLT. FIN	VENT JAMBS
17		2 PER LITE	SET'G BLOCK, 5/8"x1/8"x4" LG.	AT MTG. & BOTTOM RAIL
18		AS NEEDED	GLAZING FOAM TAPE, CAPITAL	VENT JAMBS
19		2	CLOSE CELL PAD, 1/2x3/8"	AT JAMB & MTG. RAIL FLG.
20		2	CLOSE CELL PAD, 1/2x1x1/8"	AT FR. JAMB BOT. CORNER
21		2	BLOCK & TACKLE BALANCE, CALDWELL	FRAME JAMBS
22		2	BALANCE TAKE-OUT CLIP	FRAME JAMBS
23	M&M	2	VENT FACE GUIDE, PLASTIC	VENT JAMBS
24		4	BALANCE GUIDE	FRAME JAMBS
25		8	#10x1 1/4" PH SMS	FRAME ASSY. SCREWS
26		8	#10x1 1/4" PH SMS	VENT ASSY. SCREWS
27		2	#10x1 1/2" PH SMS	FRAME JAMB
28		4	#8x3/8" PH SMS	VENT ASSY. SCREWS
29		1	1"x1"x1/8" ST'L TUBE	FULL LENGTH MEETING RAIL
30	GE 4000	AS REQ'D	SILICONE SEALANT	GLAZING, FRAME CORNERS
31			2x4x1/8" 6063-T6 ALUM. TUBE	VERT MULLION, FULL HGT
32		4	2"x2-1/2"x1/8"x3-3/4" 6063-T6	ALUM ANGLE TO MULLION
33		8	#12-3/4" GRADE 5 FLAT HEAD	ALUM ANGLE TO MULLION
34		8	1/4"-3/4" PHSMS	VENT JAMB TO MULLION



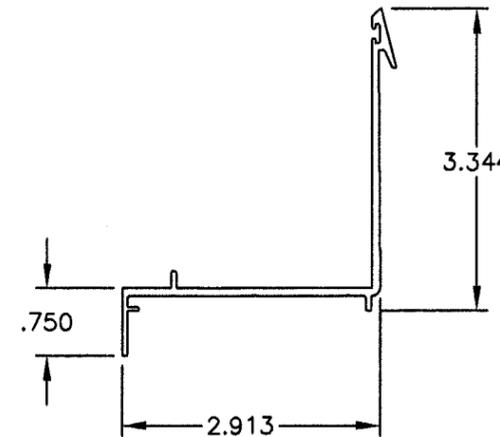
1 **FRAME HEAD**  
DIE# 104-004  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062"



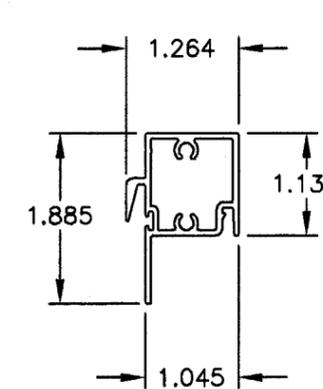
8 **GLAZING BEAD**  
DIE #104-010  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062



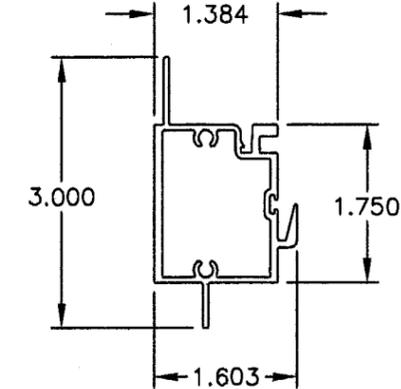
10 **BOT. RAIL SNAP LOCK**  
DIE #104-009  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062



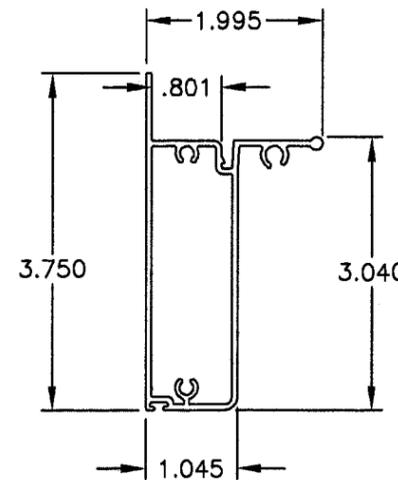
2 **FRAME SILL**  
DIE #104-005  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062-.090"



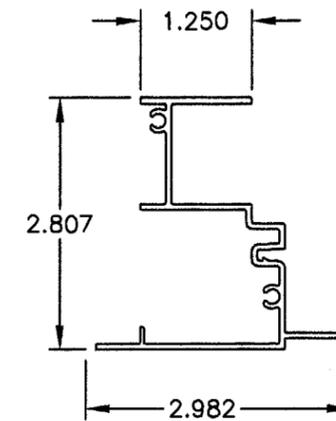
5 **VENT HEAD**  
DIE #104-007  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062"



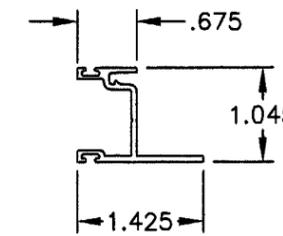
4 **MEETING RAIL**  
DIE# 104-006  
MATERIAL: ALUMINUM  
ALLOY: 6005-T5  
TYPICAL WALL: .062"



6 **VENT BOTTOM RAIL**  
DIE# 104-008  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062"



3 **FRAME JAMB**  
DIE# 104-001  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .100"



7 **VENT JAMB**  
DIE# 104-002  
MATERIAL: ALUMINUM  
ALLOY: 6063-T6  
TYPICAL WALL: .062"

Approved as complying with the  
Florida Building Code  
Date MAY 27, 2004  
NOA# 04-013-02  
Miami Dade Product Control  
Division  
By Isaac I. Chanda

*[Handwritten Signature]*  
4/14/04

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SERIES 104 SINGLE HUNG  
SMALL MISSILE IMPACT

no	date	description
1	3-24-04	by Dade County comments

date: 10/24/03	scale: H/LF	design by: P.V.	drawn by:	checked by: P.V.
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drawing no.  
MWS104-S.M.

sheet 3 of 3