



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Miami Wall Systems, Inc.
701 West 25 Street
Hialeah ,FL 33010

Your application for Notice of Acceptance (NOA) of:
Series 104 Aluminum Single Hung Window - Impact Resistant
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0212.02
EXPIRES: 09/13/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 09/13/2001

Miami Wall Systems

ACCEPTANCE No.: 01-0212.02

APPROVED : SEP 13 2001

EXPIRES : SEP 13 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This approves an aluminum single hung window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Series 104 Aluminum Single Hung Window - Large Missile Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **01-0106**, Sheets 1 through 4 of 4, titled "Series 104-Alum. Single Hung Muller Large Missile Impact Window," prepared by manufacturer, dated 1/19/01, with revision #2 dated 8/22/01, signed and sealed by Sergio J. Alcorta, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications and side-by-side installations, as shown in approved drawings.

4. INSTALLATION

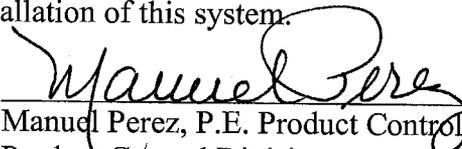
4.1 The aluminum single hung window and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

5. LABELING

5.1 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".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Miami Wall Systems

ACCEPTANCE No.: 01-0212.02

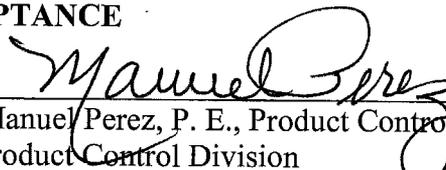
APPROVED : SEP 13 2001

EXPIRES : SEP 13 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b. The product is no longer the same product (identical) as the one originally approved;
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P. E., Product Control Examiner
Product Control Division

Miami Wall Systems

ACCEPTANCE No.: 01-0212.02

APPROVED : SEP 13 2001

EXPIRES : SEP 13 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For file only. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **01-0106**, Sheets 1 through 4 of 4, titled "Series 104-Alum. Single Hung Muller Large Missile Impact Window," prepared by manufacturer, dated 1/19/01, with revision #2 dated 8/22/01, signed and sealed by Sergio J. Alcorta, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per SFBC, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
 - 3) Water Resistance Test, per SFBC, PA 202-94
 - 4) Large Missile Impact Test per SFBC, PA 201-94
 - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
 - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2838**, dated December 7, 2000, signed and sealed by Antonio Acevedo, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by Applied Engineering Concepts, Inc., dated 01/19/01, signed and sealed by Sergio J. Alcorta, P.E.,

D. MATERIAL CERTIFICATIONS

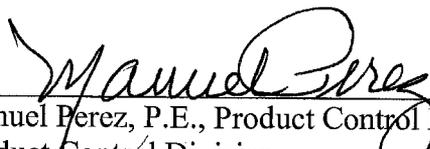
1. Notice of Acceptance No. **98-0608.03** issued to E.I. DuPont DeNemours for "Sentry Glass Plus" dated 01/14/99, expiring on 01/14/02.
2. Notice of Acceptance No. **99-1227.02** issued to Solutia, Inc. for "Saflex HP" dated 04/14/00, expiring on 04/14/03.

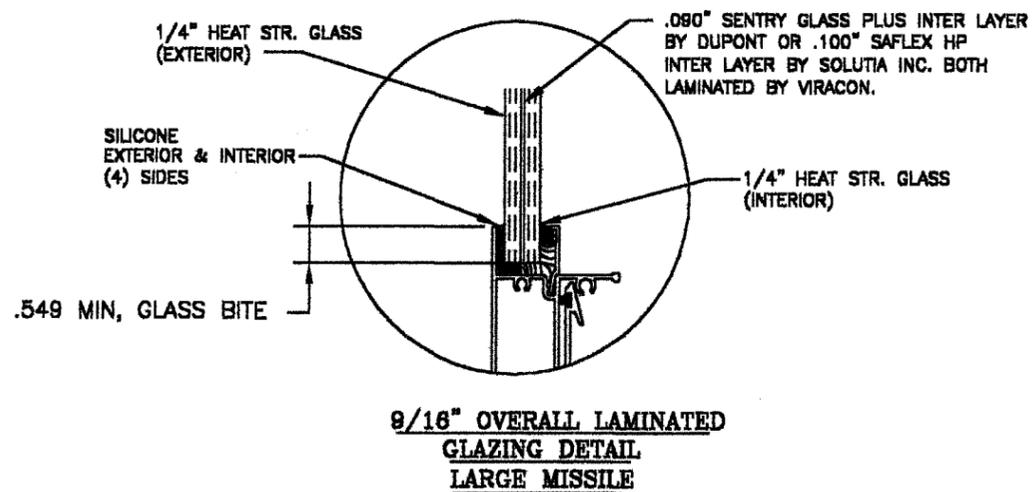
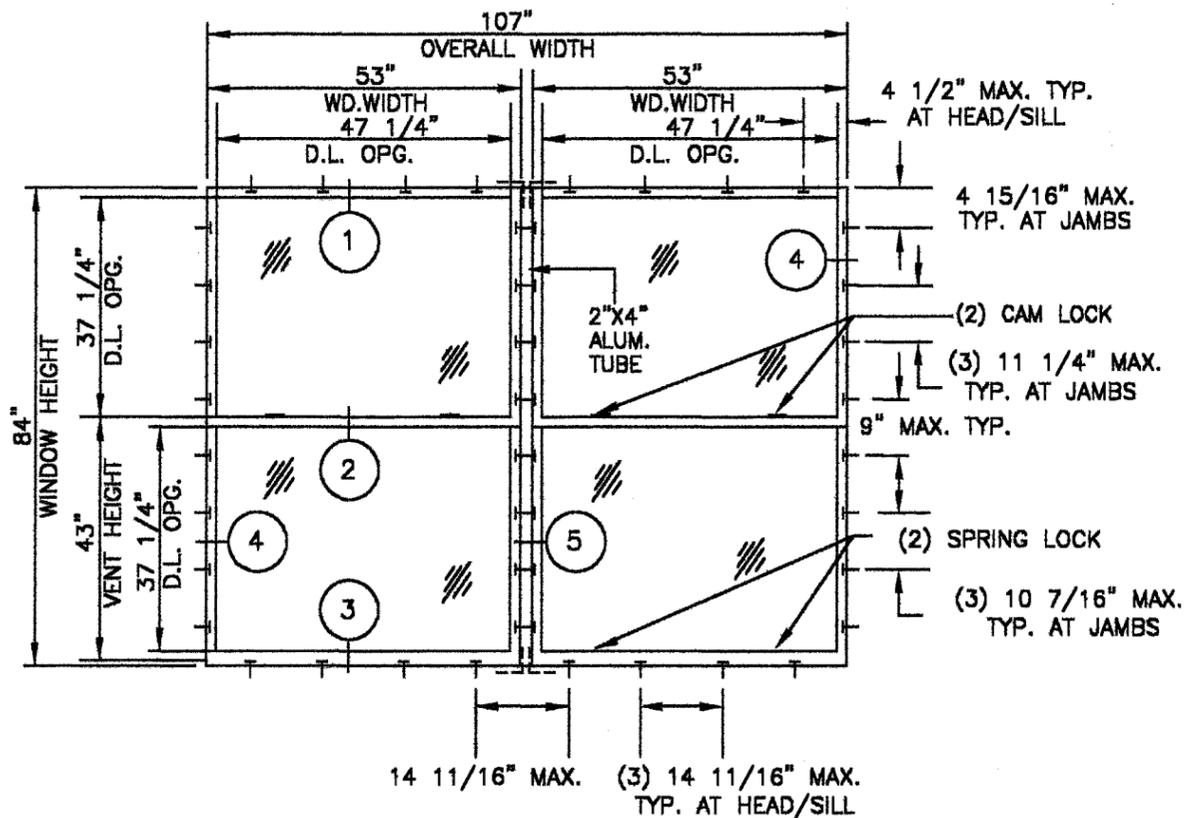
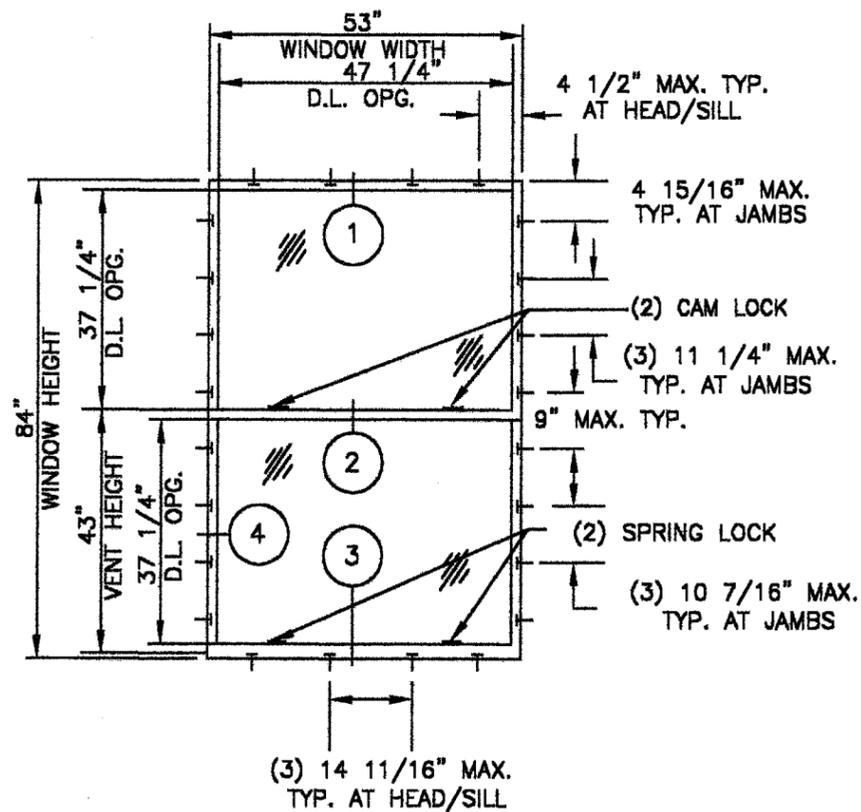
E. STATEMENTS

1. Statement letter of no financial interest, dated January 19, 2001, signed and sealed by Sergio J. Alcorta, P.E.
2. Statement letter of conformance, dated January 19, 2001, signed and sealed by Sergio J. Alcorta, P.E.
3. Laboratory compliance letter for Test Report no. **FTL-2838**, issued by Applied Engineering Concept, Inc., dated 01/19/01, signed and sealed by Sergio J. Alcorta, P.E.

F. OTHERS

1. None.


Manuel Perez, P.E., Product Control Examiner
Product Control Division



MIAMI WALL SYSTEMS INC.

WINDOW: SERIES 104 SINGLE HUNG
 TEST REP. FTL #2838
 DESIGN LOADS: +90.0 psf.
 -100.0 psf.
 AIR INFILTRATION AT 1.57 psf: .21 cfm/ft.
 WATER INFILTRATION: 13.5 psf.

GLASS TYPES

- A** 1/4" CLEAR HEAT STR-EXTERIOR
 .090" SENTRY GLASS PLUS-INTERLAYER
 1/4" CLEAR HEAT STR-INTERIOR
- B** 1/4" CLEAR HEAT STR.-EXTERIOR
 .100" SAFEFLEX HP - INTER LAYER
 1/4" CLEAR HEAT STR.-INTERIOR

APPLIED ENGINEERING CONCEPTS, INC.
 P.O. BOX 12-6403 HIALEAH, FL. 33012
 TEL. (305) 820-0550
 FAX. (305) 820-9620

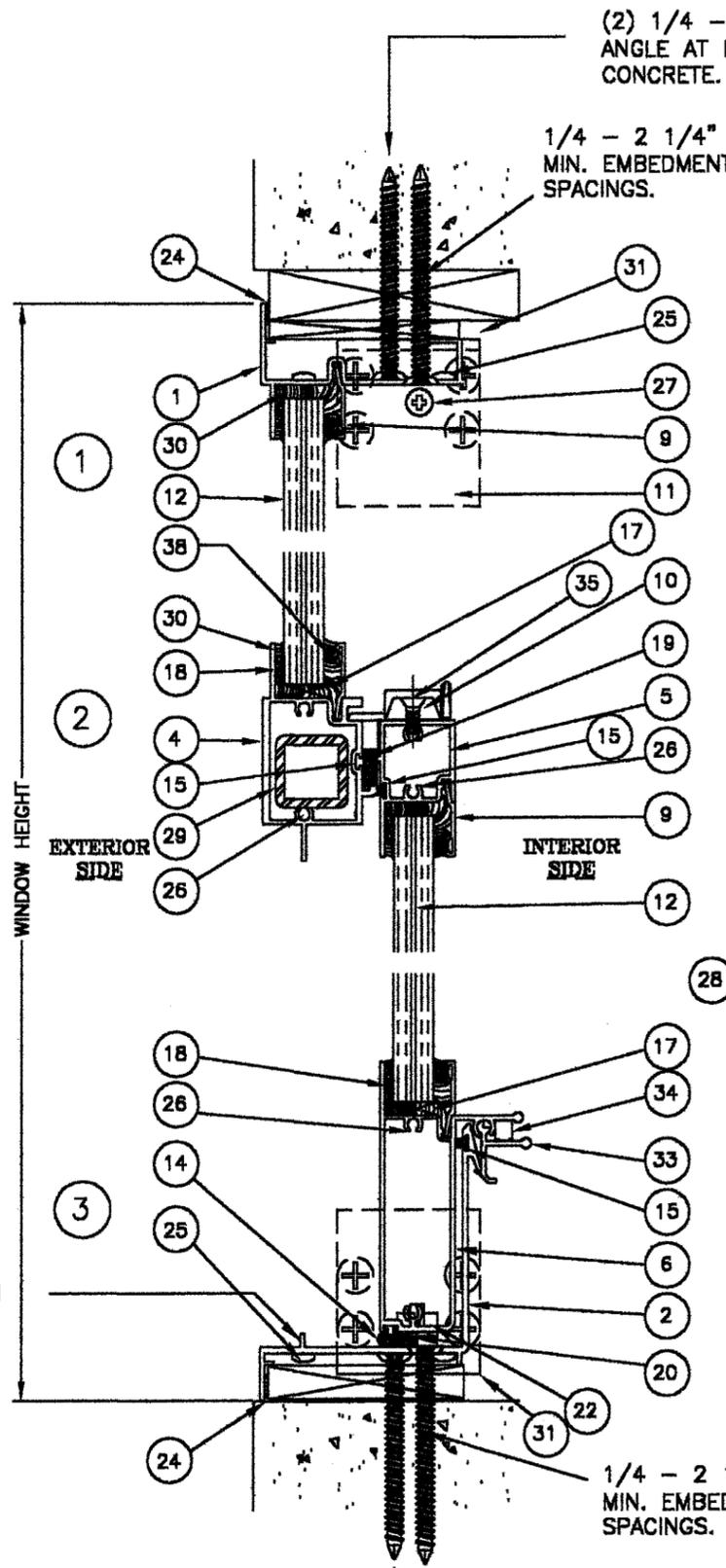
MIAMI WALL SYSTEMS, INC.
 701 WEST 25 STREET
 HIALEAH, FLA. 33010
 PHONE: (305) 888-2300

NO.	DATE	ADDITIONAL INFORMATION	ADDITIONAL INFORMATION	REVISIONS DESCRIPTION
1	6/4/01			
2	8/22/01			

DATE: 1/19/01
 SCALE: N.T.S.
 DWG. BY: J.S.
 CHK. BY:
 JOB NO.: 01-0107
 SHEET 1 OF 4
 DWG. NO.: 01-0106

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE SEP 13 2001
 BY *Maurice Perry*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0212-02

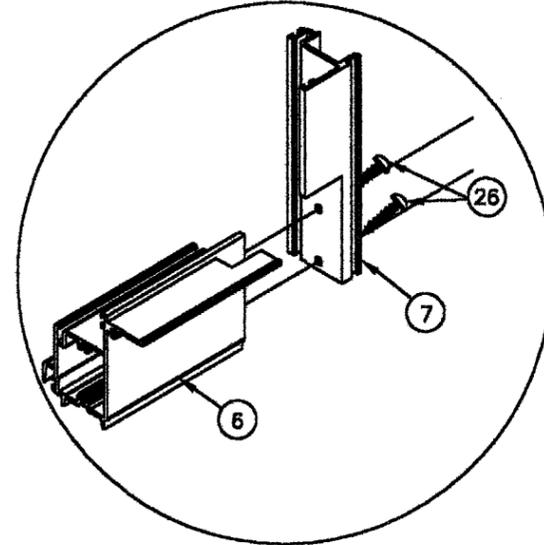
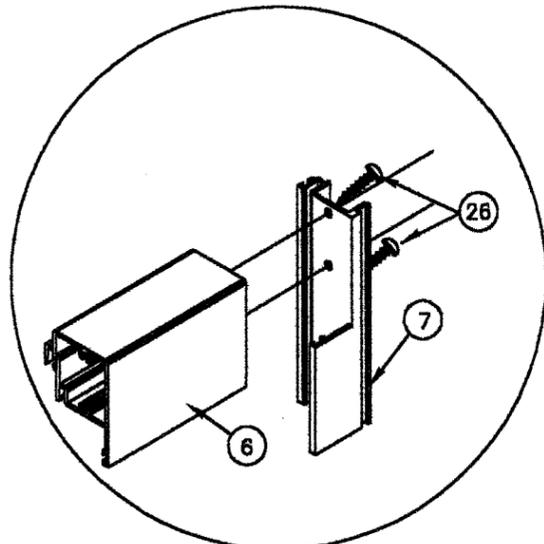
Sergio J. Alcorta
SERGIO J. ALCORTA
STRUCTURAL ENGR.
FLA. PE # 14464



(4) 1" NOTCH AT SCREEN RETAINER LEG.

1/4 - 2 1/4" TAPCON WITH A 1 1/2" MIN. EMBEDMENT SEE ELEVATIONS FOR SPACINGS.

(2) 1/4 - 2 1/4" TAPCON PER ALUMINUM ANGLE AT EACH END OF MULLION INTO CONCRETE.



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE SEP 13 2001
 BY Manuel Carr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0212-02

Sergio J. Alcorta
SERGIO J. ALCORTA
STRUCTURAL ENGR.
FLA. PE # 14464

APPLIED ENGINEERING CONCEPTS, INC.
 P.O. BOX 12-6403 HIALEAH, FL. 33012
 TEL. (305) 820-0550
 FAX. (305) 820-9620

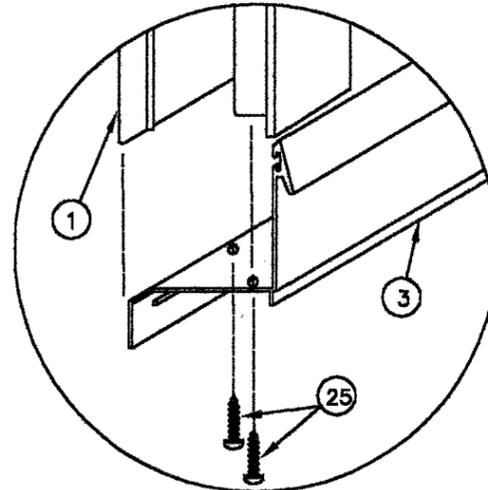
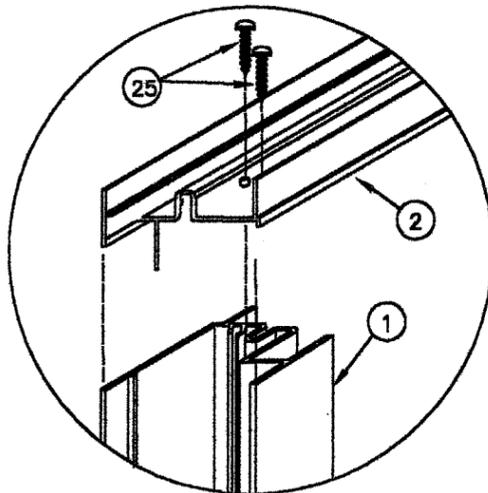
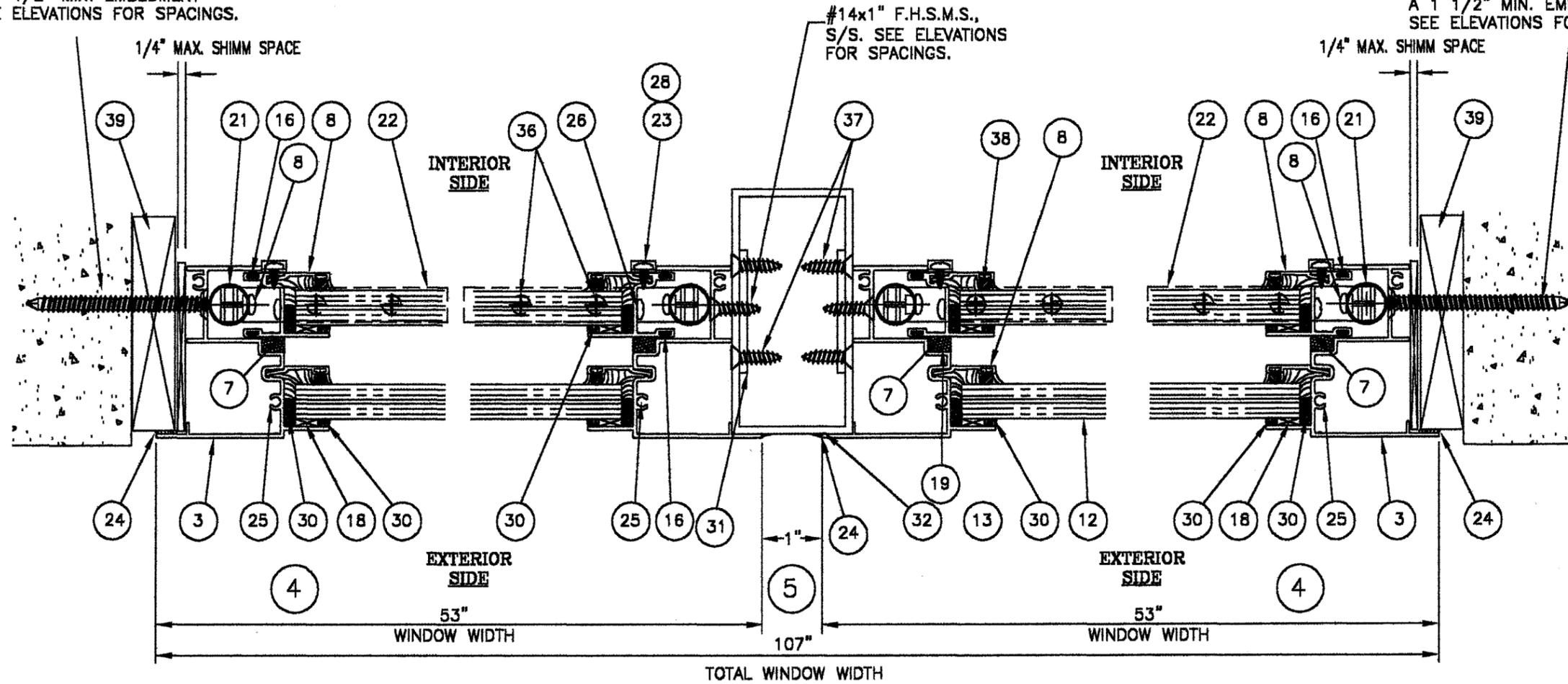
SERIES: 104-ALUM. SINGLE HUNG MULLED
 LARGE MISSILE IMPACT WINDOW
MIAMI WALL SYSTEMS, INC.
 701 WEST 25 STREET
 HIALEAH, FLA. 33010
 PHONE: (305) 888-2300

NO.	DATE	ADDITIONAL INFORMATION	REVISIONS DESCRIPTION
1	6/4/01		
2	8/22/01		

DATE: 1/19/01
 SCALE: N.T.S.
 DWG. BY: J.S.
 CHK. BY:
 JOB NO.: 01-0107
 SHEET 2 OF 4
 DWG. NO.: 01-0106

1/4" - 2 1/4" TAPCON WITH
A 1 1/2" MIN. EMBEDMENT
SEE ELEVATIONS FOR SPACINGS.

1/4" - 2 1/4" TAPCON WITH
A 1 1/2" MIN. EMBEDMENT
SEE ELEVATIONS FOR SPACINGS.



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **SEP 13 2001**
BY *Mmanuel*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0212-02**

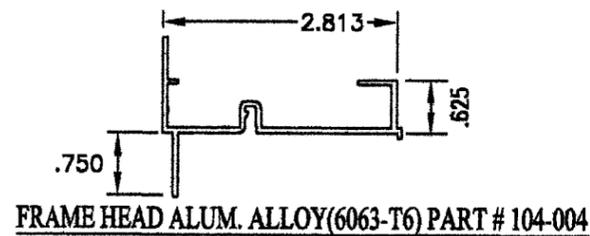
Sergio J. Alcorta
SERGIO J. ALCORTA
STRUCTURAL ENGR.
FLA. PE # 14464

DATE: 1/19/01
SCALE: N.T.S.
DWG. BY: J.S.
CHK. BY:
JOB NO.: 01-0107
SHEET 3 OF 4
DWG. NO.: 01-0106

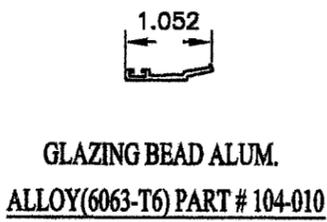
APPLIED ENGINEERING CONCEPTS, INC.
P.O. BOX 12-6403 HIALEAH, FL. 33012
TEL. (305) 820-0550
FAX. (305) 820-9620

SERIES: 104-ALUM. SINGLE HUNG MOLDED
LARGE MISSILE IMPACT WINDOW
MIAMI WALL SYSTEMS, INC.
701 WEST 25 STREET
HIALEAH, FLA. 33010
PHONE: (305) 888-2800

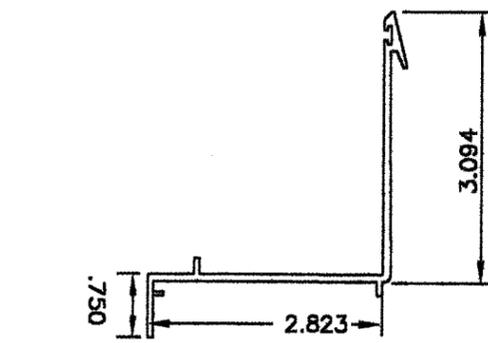
NO.	DATE	ADDITIONAL INFORMATION	REVISIONS DESCRIPTION
1	6/4/01		
2	8/22/01		



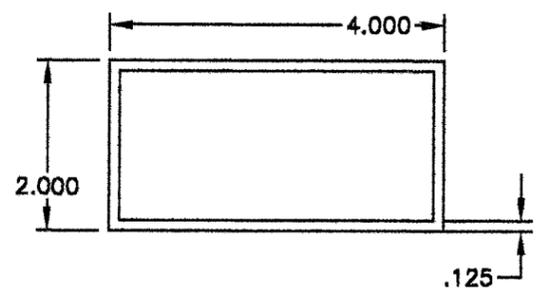
FRAME HEAD ALUM. ALLOY(6063-T6) PART # 104-004



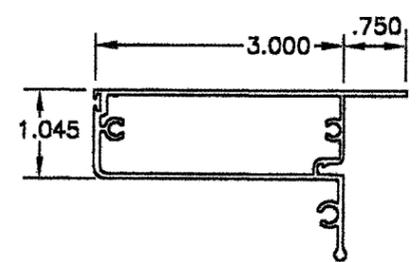
GLAZING BEAD ALUM.
ALLOY(6063-T6) PART # 104-010



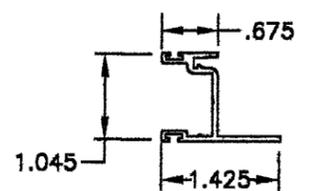
FRAME SILL ALUM. ALLOY(6063-T6) PART # 104-005



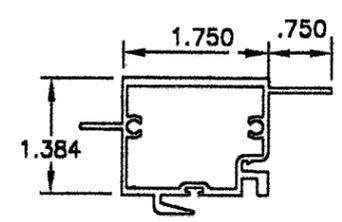
2" x 4" x 1/8" ALUM. TUBE MULLION



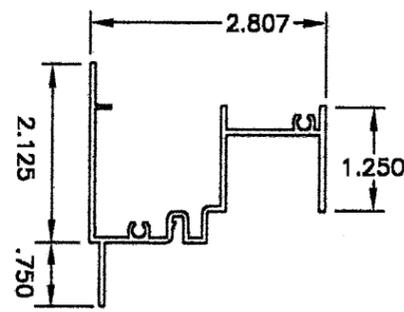
VENT BOTT. RAIL ALUM. ALLOY(6063-T6) PART # 104-008



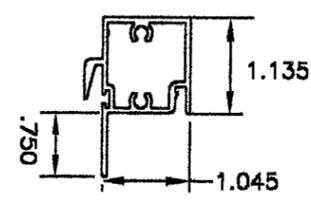
VENT JAMB ALUM. ALLOY(6063-T6) PART # 104-002



FRAME MEETING RAIL ALUM. ALLOY(6063-T6) PART # 104-006



FRAME JAMB ALUM. ALLOY(6063-T6) PART # 104-001



VENT TOP RAIL ALUM. ALLOY(6063-T6) PART # 104-007

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 5/8" GLASS, VERT.	FRAME/MOV. SASH
9	104-010	2	GLAZING BEAD 5/8" GLASS, HOR.	FRAME/MOV. SASH
10	672213	2	'DECO' SWEEP LATCH	(2) @ VENT TOP RAIL
11		2	VENT STOP, AL TUBE 1x1x.062"x3" LG.	FRAME JAMBS
12		(2) PER WD.	9/16" LAMINATED GLASS	SEE ELEVATIONS
13	600 VS	1" LG (3)/LGTH	VINYL BULB, D.S. BROWN	GLAZING BEAD, SPACER
14	WV-3171	SNG'L ROW	VINYL BULB, WIGBORG	FRAME SILL
15	.170"x.187"	SNG'L ROW	SCHLEGEL PILE W/FINSEAL WSTPG.	FR.SILL, MTG RAIL, VNT. HEAD
16	.170"x.187"	DB'L ROW	SCHLEGEL PILE W/FINSEAL WSTPG.	VENT JAMBS
17	EPDM	4	SET'G BLOCK, 3/16"x5/8"x4" LG.	@ 1/4 PTS.
18	EPDM	+/- 24" C.O.	1/8"x1/2"x4" LG.SPACER BLK'S	(4) SIDES GLASS, EXTERIOR
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	SL-14A-001	2	'CALDWELL' ULTRA-LIFT BALANCE	FRAME JAMBS
22	21B02-UEK	2	'CALDWELL' ULTRA-LIFT BRACKET S/S	(2) @ BOTTOM VENT RAIL
23		4	VENT FACE GUIDE, PLASTIC	(2) PER VENT JAMB
24	SILICONE	AS REQ'D.	TREMCO SPECTRUM 2	FRAME SEAL
25		8	#10x1 1/4" PH SMS	FRAME ASSY. SCREWS
26		8	#10x1 1/4" PH SMS	VENT ASSY. SCREWS
27		4	#10x1 1/2" PH SMS	VENT STOP/BALANCE
28		4	#8x3/8" PH SMS	VENT FACE GUIDE
29		1	1x1x1/8" ST'L TUBE	FX'D MEETING RAIL
30	GE 4000	AS REQ'D	SILICONE SEALANT	GLAZING, FRAME CORNERS
31	2x2x1/8"x2" LG.	4	ALUM. ANGLE MULL. ANCHOR	(2) EACH TOP & BOTTOM
32	2x4x1/8" TUBE	1	ALUM. TUBE MULLION	FULL HEIGHT
33	104-009	2	BOTTOM RAIL SNAP LOCK	BOTT. RAIL/MVG. SASH
34		2	SNAP LOCK SPRING	FRAME SILL
35		4	#8-32X1/2" P.H.M.S.	SWEEP LATCH
36		4	#8 X1/2" P.H. S.M.S.	ULTRA-BRACKET
37		16	#14 X1" P.H. S.M.S.	MULLION ANCHOR
38	NEOPRENE	+/- 24" C.O.	.220" DIA.X2" LG. SPACERS	(4) SIDES GLASS, EXTERIOR
39		4	2X4 PT. WOOD BUCK	(4) SIDES TEST FRAME
40				

APPLIED ENGINEERING CONCEPTS, INC.
P.O. BOX 12-6403 HIALEAH, FL. 33012
TEL. (305) 820-0550
FAX. (305) 820-9620

MIAMI WALL SYSTEMS, INC.
701 WEST 25 STREET
HIALEAH, FLA. 33010
PHONE: (305) 888-2300

NO.	DATE	ADDITIONAL INFORMATION	REVISIONS DESCRIPTION
1	6/4/01		
2	5/22/01		

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **SEP 13 2001**
BY *Manuel J. [Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0212-02**

DATE: 1/19/01
SCALE: N.T.S.
DWG. BY: J.S.
CHK. BY:
JOB NO.: 01-0107
SHEET 4 OF 4
DWG. NO.: 01-0108

[Signature]
SERGIO J. ALCORTA
STRUCTURAL ENGR.
FLA. PE # 14464