



**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)**

**Florida Impact Window Manufacturing, Inc.  
14475 NW 26<sup>th</sup> Ave  
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 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.

**DESCRIPTION: Series FIW - 2004 - SH Aluminum Single Hung Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **SH-1**, titled "Single Hung Window Series FIW – 2004 - SH Large Missile Impact Resistant", sheets 1 through 5 of 5, dated 03/24/05, prepared by Francisco Hernandez, P.E., P.A. Structural Engineering, signed and sealed by Francisco Hernandez, 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: Large and 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 page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 04-0826.02  
Expiration Date: April 14, 2010  
Approval Date: April 14, 2005  
Page 1**

**Florida Impact Window Manufacturing, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **SH-1**, Sheets 1 through 5 of 5, titled "Single Hung Window Series FIW - 2004 - SH Large Missile Impact Resistant," dated 3/24/05, prepared by Francisco Hernandez, P.E., P.A. Structural Engineering, signed and sealed by Francisco Hernandez, 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) 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 (b) and TAS 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-4004**, dated 04/22/04, signed and sealed by Edmundo J. Largaespada, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM- E1300, and structural analysis, prepared by Francisco Hernandez, P.E., P.A. Structural Engineering, dated 06/10/04, signed and sealed by Francisco Hernandez, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

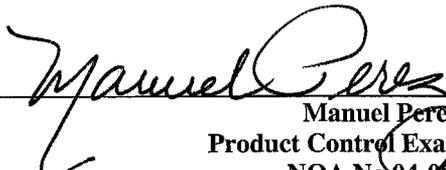
1. Notice of Acceptance No. **01-1204.01**, issued to E.I. DuPont DeNemours for their "Sentry Glass ® Plus", approved on 01/17/02 and expiring on 01/14/07.
2. Notice of Acceptance No. **02-0828.15**, issued to E.I. DuPont DeNemours for their "DuPont Butacite ® PVB Material", approved on 11/21/02 and expiring on 12/11/05.

**F. STATEMENTS**

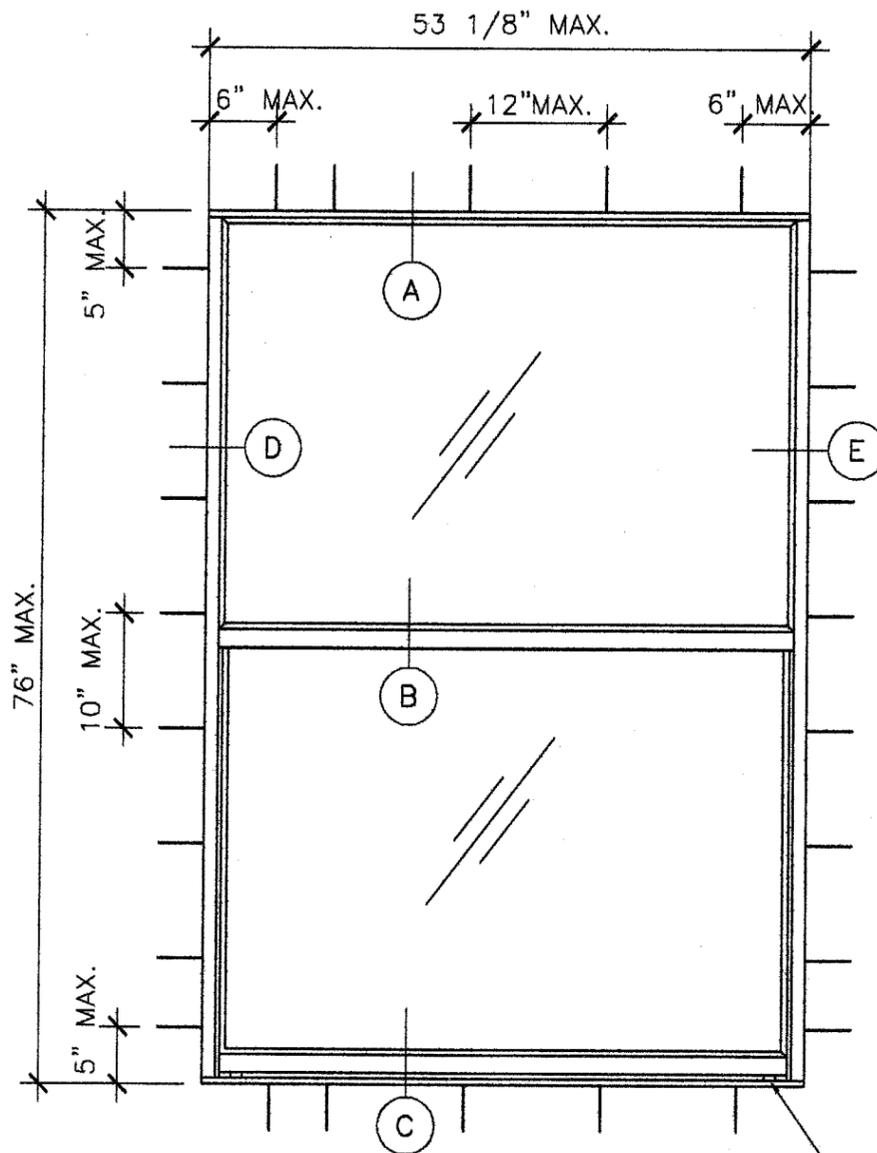
1. Statement letter of conformance, dated 07/10/04, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of no financial interest, 07/10/04, signed and sealed by Francisco Hernandez, P.E.

**G. OTHER**

1. None.

  
\_\_\_\_\_  
Manuel Perez, P.E.

Product Control Examiner  
NOA No **04-0826.02**  
Expiration Date: April 14, 2010  
Approval Date: April 14, 2005



**ELEVATION**

1" WEEP NOTCH AT EACH END OF SCREEN RETAINER LEG

**ANCHORS:**

1. FOR CONNECTION TO CONCRETE BLOCK USE 1/4" ELCO TAPCON WITH 1 1/4" MINIMUM EMBEDMENT INTO WALL EXCLUDING STUCCO.
2. FOR CONNECTION TO METAL STRUCTURE USE 1/4" -20 HILTI KWIK-FLEX SELF-DRILLING SCREW  
STEEL MATERIAL SHALL CONFORM TO ASTM A500, A653 OR A36 WITH 12 Ga MINIMUM WALL THICKNESS.  
ALUMINUM ALLOY 6063-T5 WITH 1/8" MINIMUM WALL THICKNESS.
3. FOR CONNECTION TO 2BY WOOD BUCK OR WOOD STRUCTURE USE 1/4"-20 HILTI KWIK-FLEX SELF-DRILLING SCREW WITH 1 1/2" MINIMUM EMBEDMENT INTO WOOD

**GLASS OPTIONS**

**OPTION No. 1**

0.460" OVERALL LAMINATED GLASS USING TWO LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A 0.090 INNER LAYER FILM, SENTRY GLASS PLUS

**OPTION No. 2**

0.460" OVERALL LAMINATED GLASS USING TWO LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A 0.090 INNER LAYER FILM, DUPONT BUTACITE PVB

**GLAZING METHOD**

UNIT IS EXTERIOR GLAZED WITH 0.55" GLAZING PENETRATION USING A CLEAR COLORED SILICONE GE SCS2800 OR PECORA 895 AND AN ALUMINUM SNAP ITEM #5 ON GLAZING BEAD

**DESIGN PRESSURE RATING**

POSITIVE = 110 PSF  
 NEGATIVE = 150 PSF  
 FOR ALL UNITS EQUAL OR SMALLER THAN THE ONE SHOWN ON THE ELEVATION

Approved as complying with the Florida Building Code  
 Date April 14, 2005  
 NOA# 04-0826.02  
 Miami Dade Product Control Division  
 By Manuel Perez

*[Signature]*  
 3-24-05  
 FRANCISCO HERNANDEZ  
 FL. PE # 51393

FLORIDA IMPACT WINDOWS

14475 NW 26th AVE  
 Opalocka, Florida 33054

FRANCISCO HERNANDEZ P. E.  
 Structural Engineering  
 15113 SW 35 Terr.  
 Miami, Florida 33185  
 Phone (305) 227-6901  
 Fax (305) 229-8605

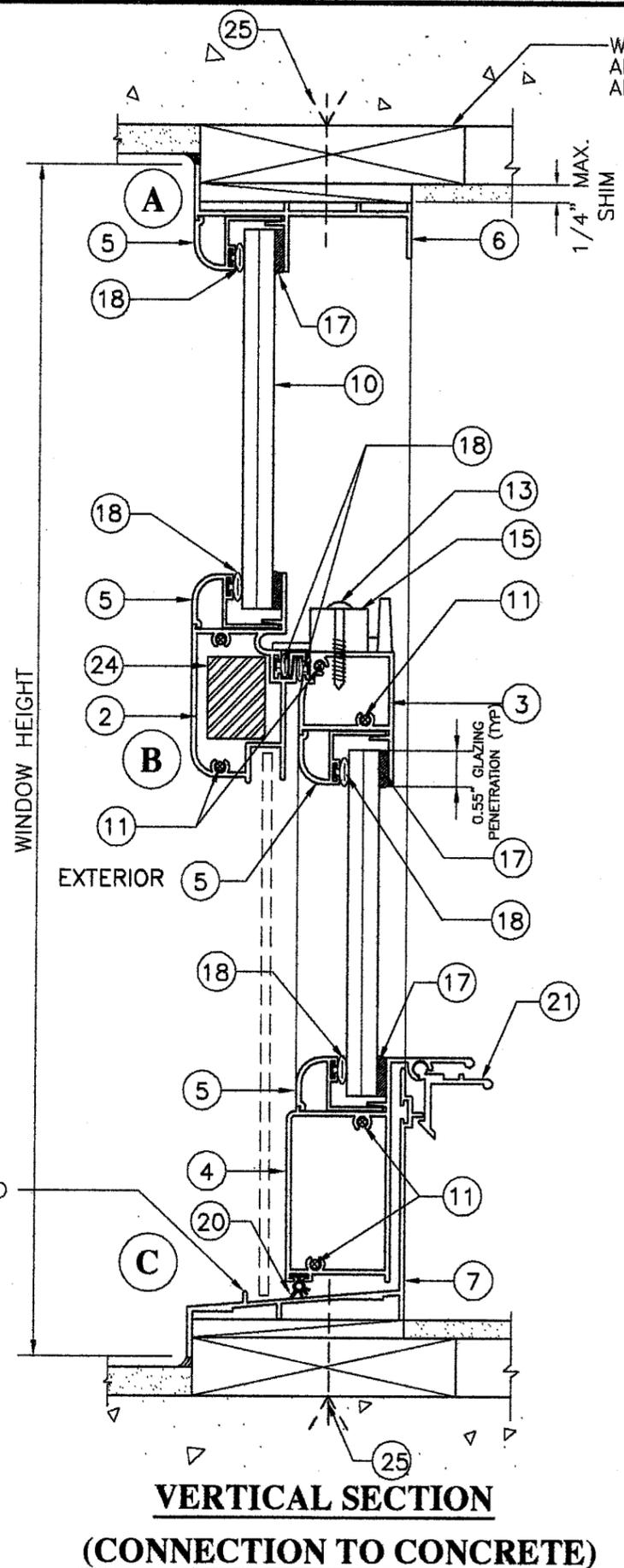


SINGLE HUNG WINDOW  
 SERIES FIW - 2004 - SH  
 LARGE MISSILE  
 IMPACT RESISTANT

Drawn By: MH  
 Date: 3-24-05  
 Scale: NTS  
 Revision: \_\_\_\_\_  
 Revision: \_\_\_\_\_

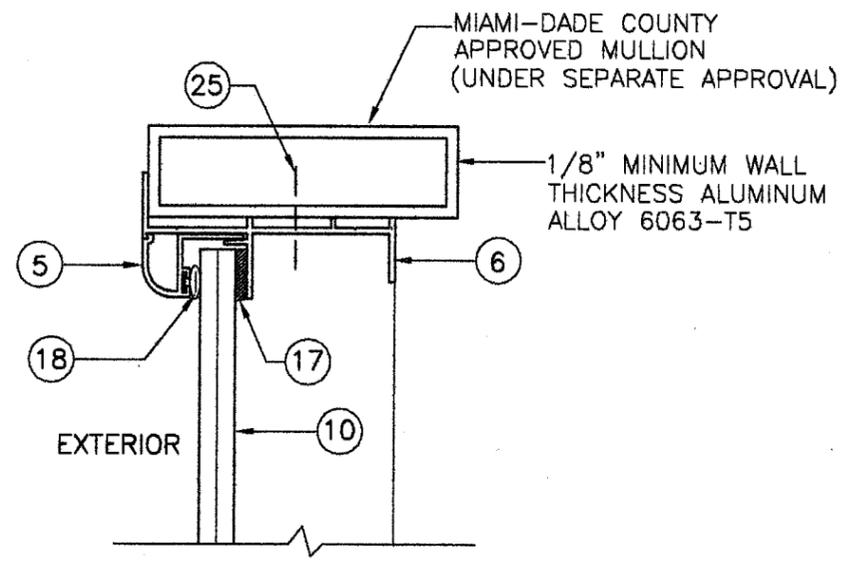
DRAWING NO.  
SH-1

SHEET  
 1 OF 5



**VERTICAL SECTION  
(CONNECTION TO CONCRETE)**

WOOD BUCK BY OTHERS MUST BE PROPERLY ANCHORED TO TRANSFER LOAD TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL



**(CONNECTION TO ALUMINUM MULL)  
SECTION A**

1" WEEP NOTCH AT EACH END OF SCREEN RETAINER LEG

<p>Approved as complying with the Florida Building Code          Date <u>APRIL 14, 2005</u>          NOA# <u>04-0826.02</u>          Miami Dade Product Control Division          By <u>Manuel Perez</u></p>		<p><i>[Signature]</i>  <u>3-24-05</u>          FRANCISCO HERNANDEZ          FL. PE # 51393</p>
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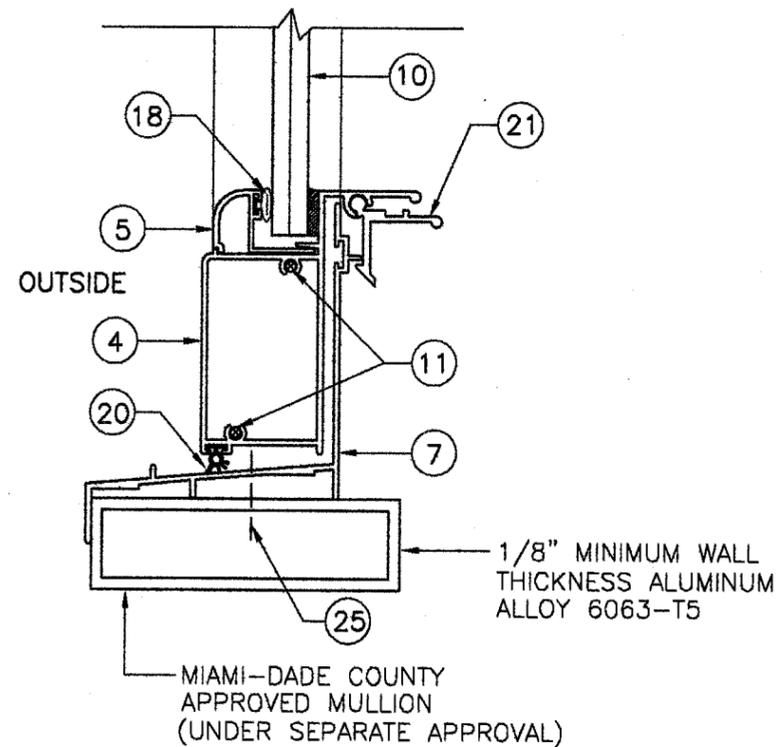
**FLORIDA IMPACT WINDOWS**  
 14475 NW 26th AVE  
 Opalocka, Florida 33054

**FRANCISCO HERNANDEZ P. E.**  
 Structural Engineering  
 15113 SW 35 Terr.  
 Miami, Florida 33185  
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**SINGLE HUNG WINDOW  
 SERIES FIW 2004 - SH  
 LARGE MISSILE  
 IMPACT RESISTANT**

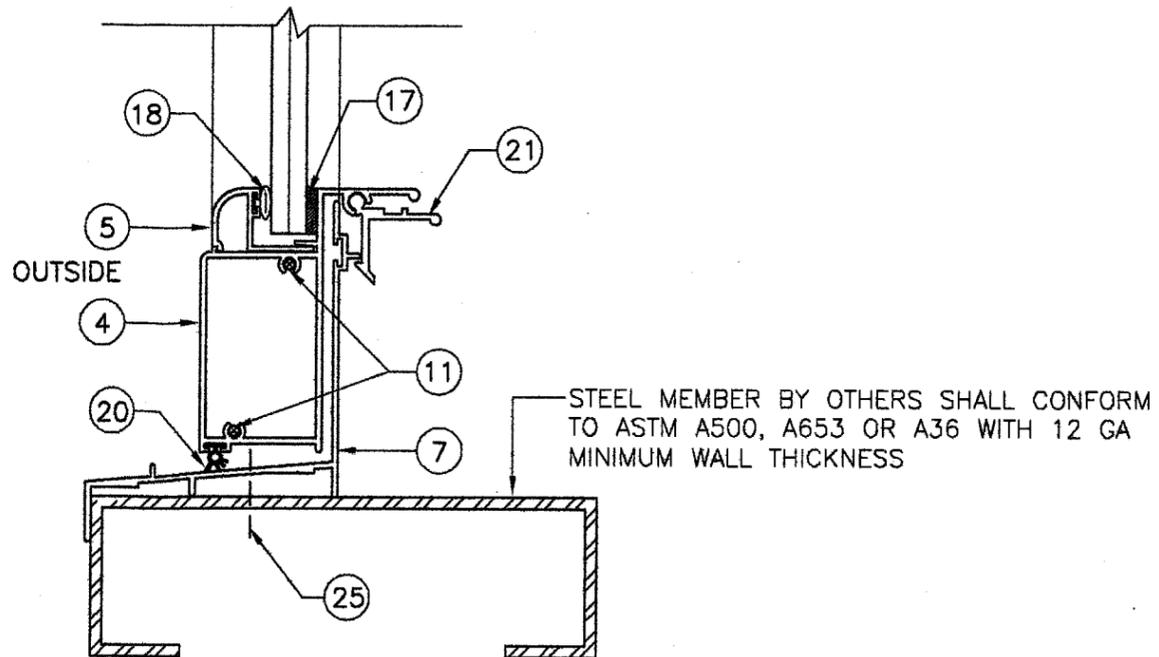
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 Revision: \_\_\_\_\_  
 Revision: \_\_\_\_\_

DRAWING NO.  
SH-1  
 SHEET  
 2 OF 5



**(CONNECTION TO ALUMINUM MULL)**

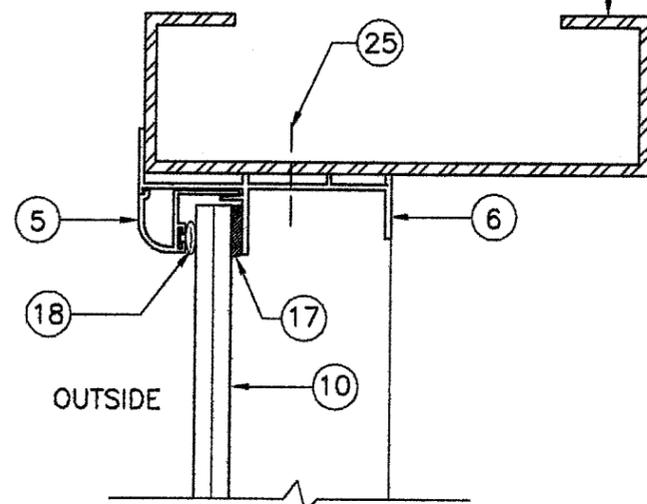
**SECTION C**



**(CONNECTION TO STEEL MEMBER)**

**SECTION C**

MINIMUM WALL THICKNESS  
TO ASTM A500, A653 OR A36  
WITH 12 GA STEEL MEMBER BY  
BY OTHERS SHALL CONFORM



**(CONNECTION TO STEEL MEMBER)**

**SECTION A**

Approved as complying with the  
Florida Building Code  
Date APRIL 14, 2005  
NOA# 04-0826.02  
Miami Dade Product Control  
Division  
By Manuel Perez

*Handwritten signature*  
3-24-05  
FRANCISCO HERNANDEZ  
FL. PE # 51393

FLORIDA IMPACT  
WINDOWS

14475 NW 26th AVE  
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**SINGLE HUNG WINDOW  
SERIES FIW 2004 - SH  
LARGE MISSILE  
IMPACT RESISTANT**

Drawn By: MH

Date: 3-24-05

Scale: NTS

Revision: \_\_\_\_\_

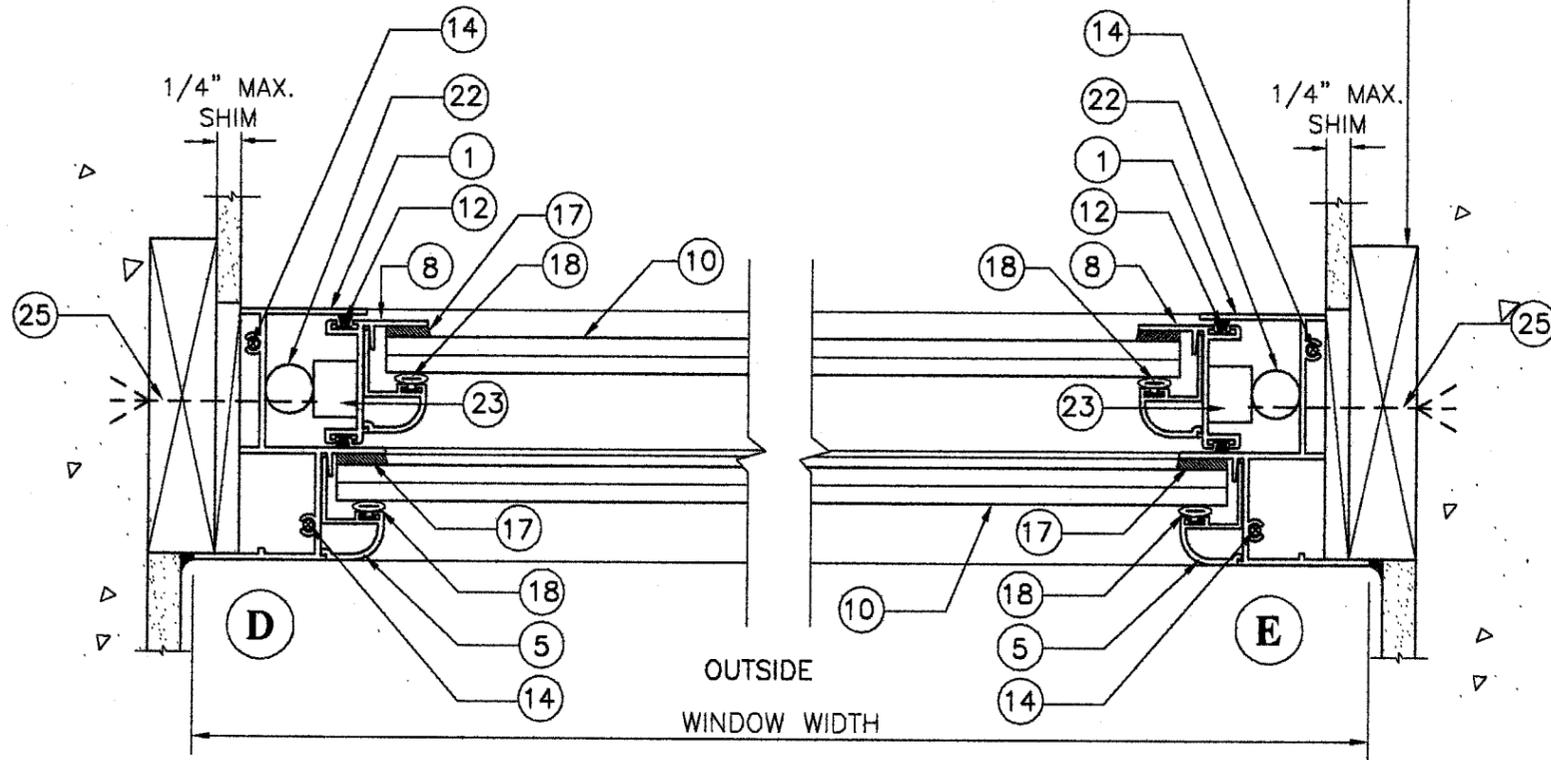
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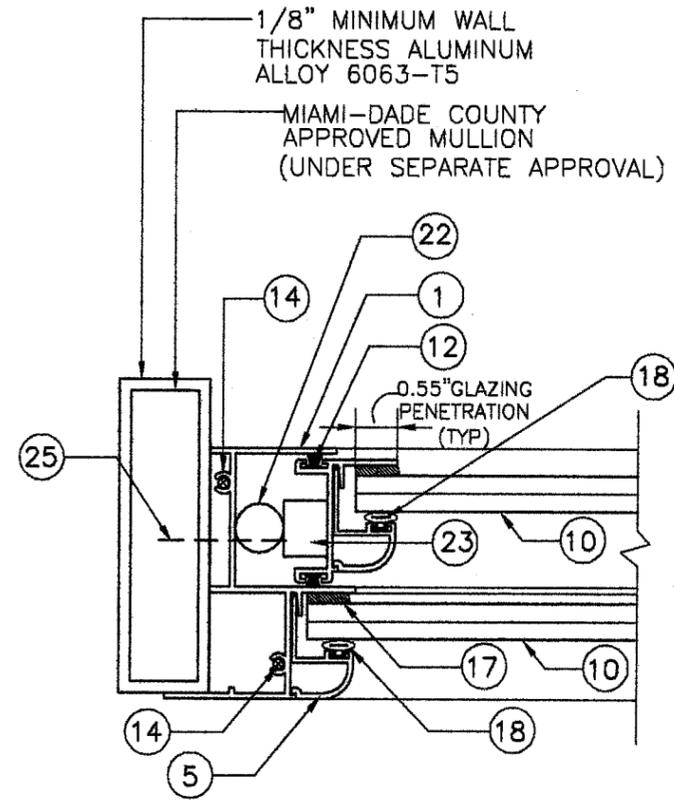
SH-1

SHEET  
3 OF 5

WOOD BUCK BY OTHERS MUST BE PROPERLY ANCHORED TO TRANSFER LOAD TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL

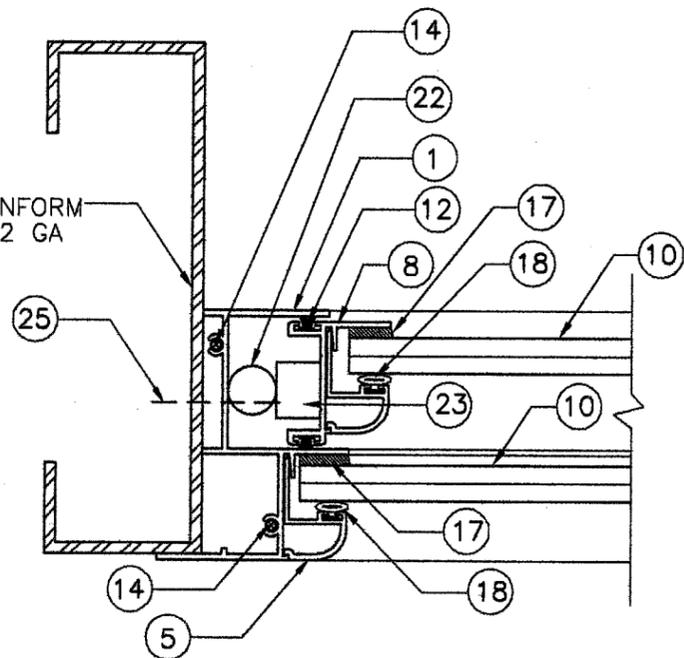


**(CONNECTION TO CONCRETE)  
HORIZONTAL SECTION**



**(CONNECTION TO ALUMINUM MULL)  
SECTION D**

STEEL MEMBER BY OTHERS SHALL CONFORM TO ASTM A500, A653 OR A36 WITH 12 GA MINIMUM WALL THICKNESS



**(CONNECTION TO STEEL MEMBER)  
SECTION D**

Approved as complying with the Florida Building Code  
Date APRIL 14, 2005  
NO. 04-0826-02  
Miami Dade Product Control Division  
By *Francisco Hernandez*

FRANCISCO HERNANDEZ  
FL. PE # 51393

**FLORIDA IMPACT WINDOWS**

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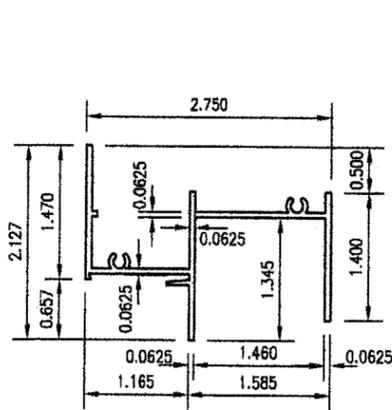


**SINGLE HUNG WINDOW  
SERIES FIW 2004 - SH  
LARGE MISSILE  
IMPACT RESISTANT**

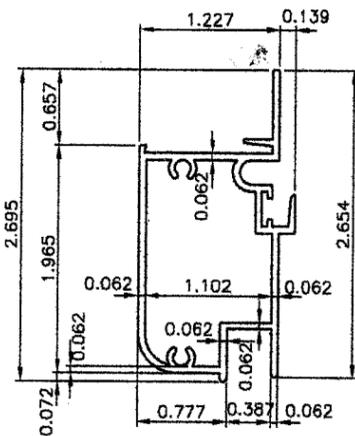
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Date: 3-24-05  
Scale: NTS  
Revision: \_\_\_\_\_  
Revision: \_\_\_\_\_

DRAWING NO.  
SH-1

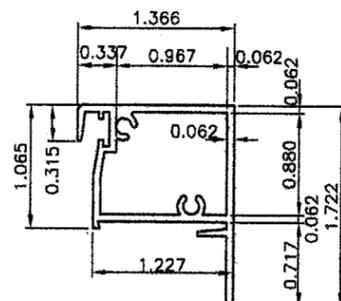
SHEET  
4 OF 5



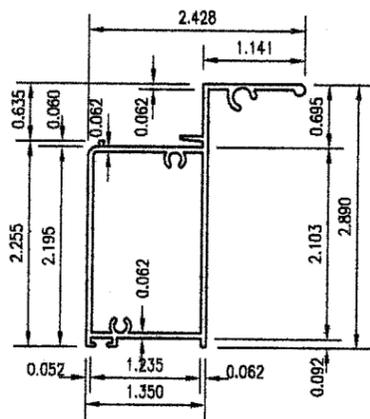
①  
FRAME JAMB  
FSP 015



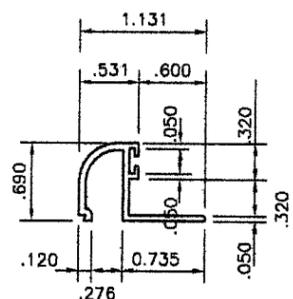
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FIXED MEETING RAIL  
FSP 041



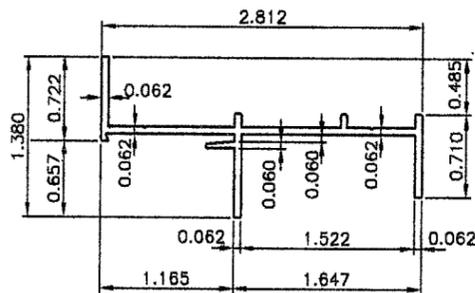
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SASH TOP MEETING RAIL  
FSP 018



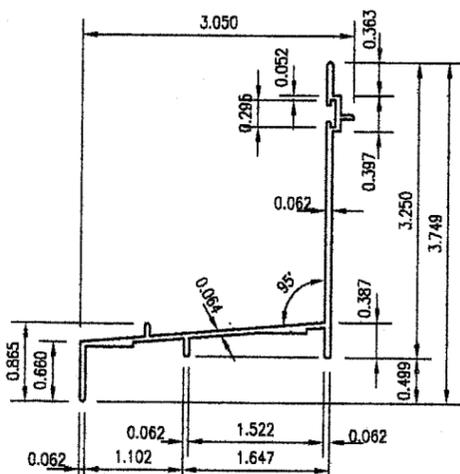
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SASH BOTTOM RAIL  
FSP 042



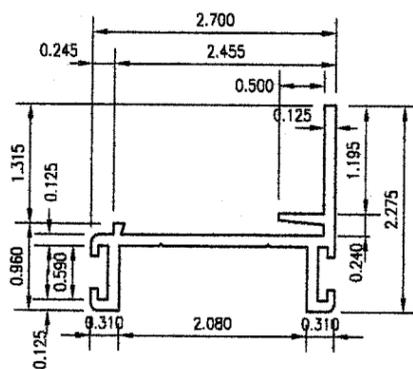
⑤ ⑨  
PART FSP-017  
GLAZING BEAD  
FSP 017



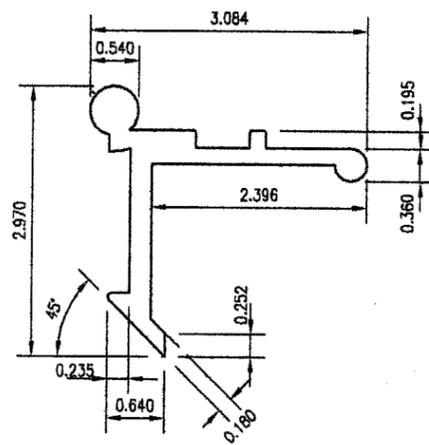
⑥  
FRAME HEAD  
FSP 014



⑦  
FRAME SILL  
FSP 040



⑧  
SASH SIDE RAIL  
FSP 016



⑪  
VENT LOCK  
FSP 021

### MATERIAL LIST

ITEM #	PART	DESCRIPTION	MATERIAL
1	FSP 015	FRAME JAMB	6063-T6
2	FSP 041	FIXED MEETING RAIL	6063-T6
3	FSP 018	SASH TOP MEETING RAIL	6063-T6
4	FSP 042	SASH BOTTOM RAIL	6063-T6
5	FSP 017	GLAZING BEAD	6063-T6
6	FSP 014	FRAME HEAD	6063-T6
7	FSP 040	FRAME SILL	6063-T6
8	FSP 016	SASH SIDE RAIL	6063-T6
10	GLASS	SEE GLAZING NOTES ON SHEETS 1 AND 2	
11	FASTENER	#8 X 1" PH SMS (SS) VENT CORNER FASTENERS	
12		WEATHER STRIP	
13	FASTENER	#8 X 1/2" PH SMS (SS) LATCH LOCK FASTENER	
14	FASTENER	#8 X 3/4" PH SMS (SS) FRAME CORNER FASTENERS	
15		LATCH LOCK	
17	SILICONE	GE SCS2800 OR PECORA 895	SILICONE SEALANT
18		VINYL BULB	
20		VENT VINYL BULB	
21	FSP 021	VENT LOCK	
22		BALANCE	
23		BALANCE GUIDE	
24		1 1/8" X 7/8" STEEL BAR (FULL LENGTH OF FIXED MEETING RAIL)	ASTM A36
25	ANCHORS	SEE ANCHOR NOTE ON SHEETS 1 AND 2	

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SINGLE HUNG WINDOW  
SERIES FIW 2004 - SH  
LARGE MISSILE  
IMPACT RESISTANT

Drawn By: MH  
Date: 3-24-05  
Scale: NTS  
Revision: \_\_\_\_\_  
Revision: \_\_\_\_\_

DRAWING NO.  
SH-1  
SHEET  
5 OF 5

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FH  
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