



**MIAMI-DADE COUNTY**  
**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)**

**Sun Metals Systems**  
**5008 Tampa West Blvd.**  
**Tampa, FL 33634**

**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 250V Aluminum Project Out Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **PO-LMI.1**, titled "Series "250V" Project Out Window TAS 201-202-203 Large Missile", sheets 1 through 4 of 4, dated 01/10/05, with revision #1 dated 4/25/05, prepared by manufacturer, signed and sealed by Wendell W. Haney, 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. 05-0127.08**  
**Expiration Date: May 19, 2010**  
**Approval Date: May 19, 2005**  
**Page 1**

**Sun Metals Systems**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **PO-LMI.1**, titled "Series "250V" Project Out Window TAS 201-202-203 Large Missile", sheets 1 through 4 of 4, dated 01/10/05, with revision #1 dated 4/25/05, prepared by manufacturer, signed and sealed by Wendell W. Haney, 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 20294  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Small Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
7) Forced Entry Resistant Test, per FBC 2411.3.2.1 (b) and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum casement window & mulled project out windows prepared by American Test Lab of South Florida, Test report No. **ATL - 0818.01-04**, dated 12/13/04, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared by RW Building Consultants, Inc., dated 01/20/05, signed and sealed by Wendell W. Haney, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

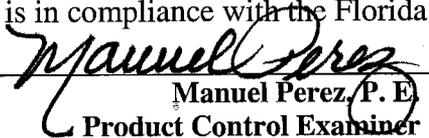
1. Notice of Acceptance No. **01-1204.01** issued to E. I. DuPont DeNemours for "Sentry Glass Plus", approved on 01/17/02 and expiring on 04/14/07.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated January 21, 2005, signed and sealed by Wendell W. Haney, P.E.
2. Statement letter of no financial interest, dated December 29, 2005 signed by James G. Hatton, III Vice president Sun Metals, Inc. (notarized)
3. Laboratory compliance letter for Test Report No. **ATLSF # 0818.01-04**, issued by American Test Lab of South Florida, dated 12/13/04, signed and sealed by William R. Mehner, P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

  
Manuel Perez, P. E.  
Product Control Examiner

NOA No 05-0127.08  
Expiration Date: May 19, 2010  
Approval Date: May 19, 2005

**GLAZING DESCRIPTION**

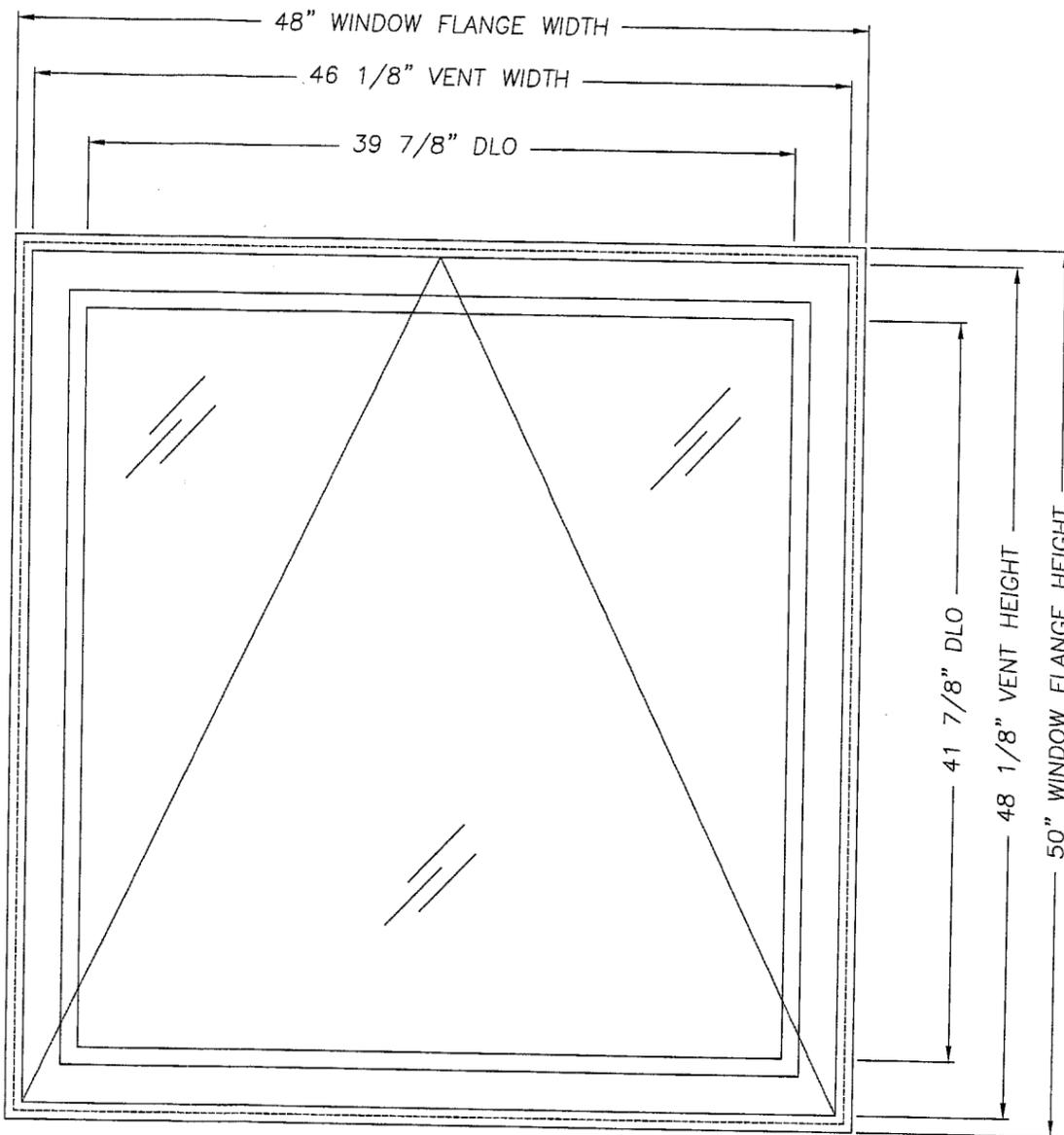
LARGE MISSILE IMPACT RESISTANT - 9/16" LAMINATED GLASS  
1/4" H.S. / 0.090 SAFETY GLASS PLUS BY DUPONT / 1/4" H.S.

**NOTES:**

1. THIS STRUCTURE IS DESIGNED PER THE 2001 FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. ALL FRAME & VENT ASSEMBLY SCREWS TO BE #12 X 1-1/4" STAINLESS STEEL SHEET METAL SCREWS.
3. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
4. ANCHORS SHALL BE LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5. THIS PRODUCT MEETS THE REQUIREMENTS OF SECTION 1626 OF THE 2001 FLORIDA BUILDING CODE AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING.
6. THIS PRODUCT MEETS THE HIGH VELOCITY HURRICANE ZONE REQUIREMENTS FOR WATER INFILTRATION.

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SHEET 3	BILL OF MATERIALS AND COMPONENTS
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**DESIGN PRESSURE RATING**  
+92 PSF -92 PSF

**SUN METALS**



**SERIES '250V' PROJECT OUT WINDOW**

5008 TAMPA WEST BLVD. (813) 889-0718  
TAMPA, FLORIDA 33634 (813) 886-0666 (Fax)

Scale: N.T.S.	Rev. #	Rev. Date
Date: 01/10/05	1	4/25/05
Drawn: RAH	EW	PER DADE COMMENTS
Checked: WHH	Rev. By	Revision Notes

TAS 201-202-203 LARGE MISSILE	<b>PROJECT OUT</b>
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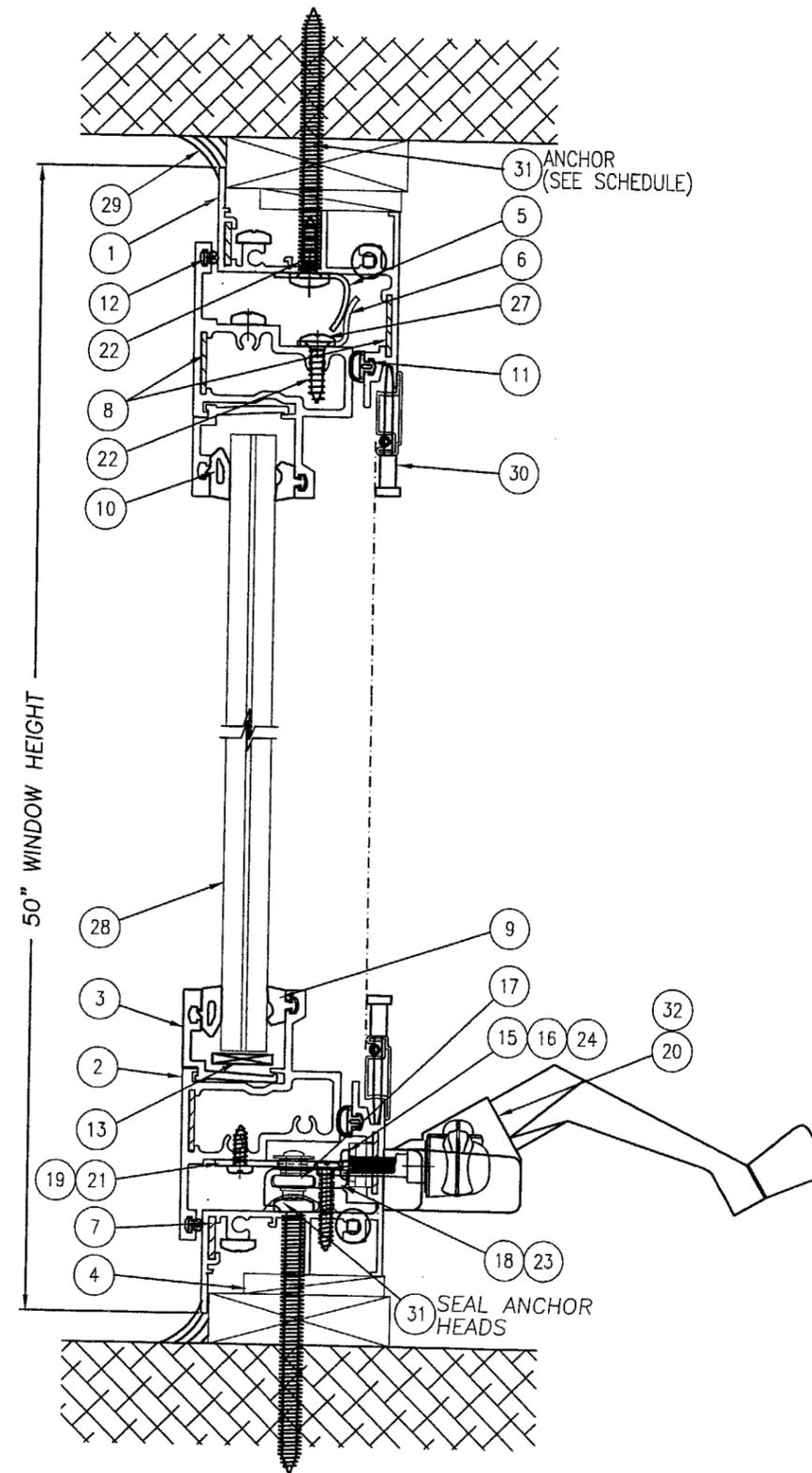
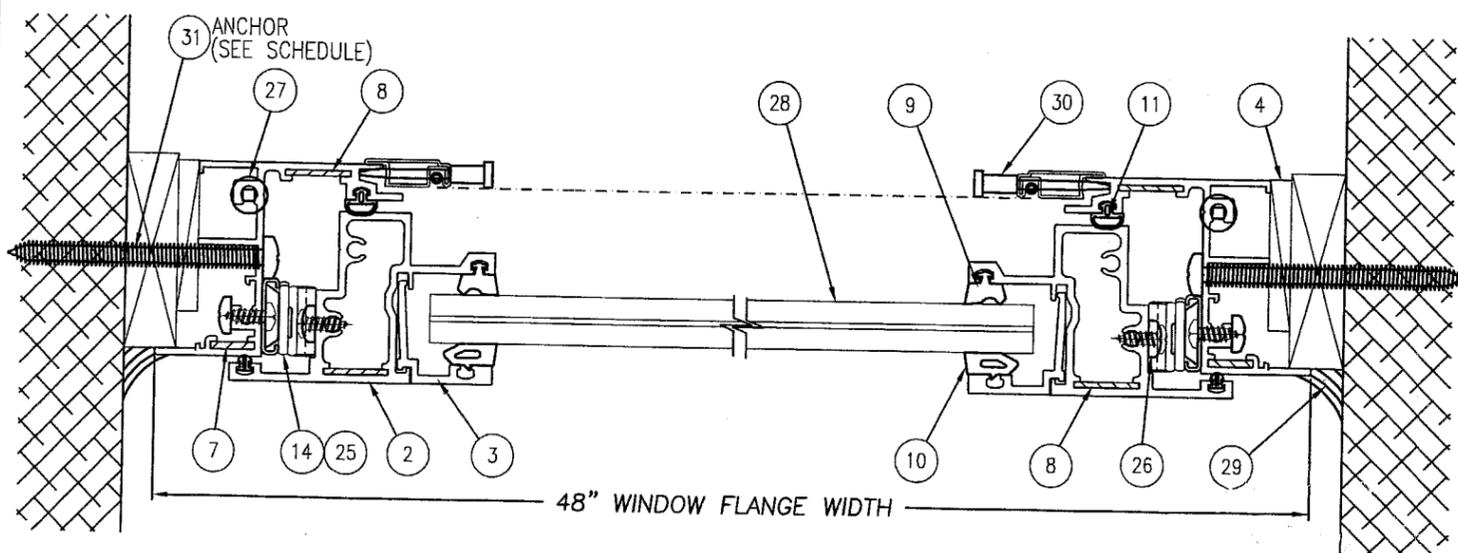
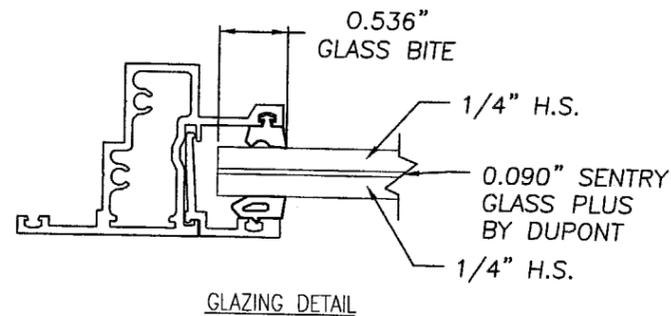
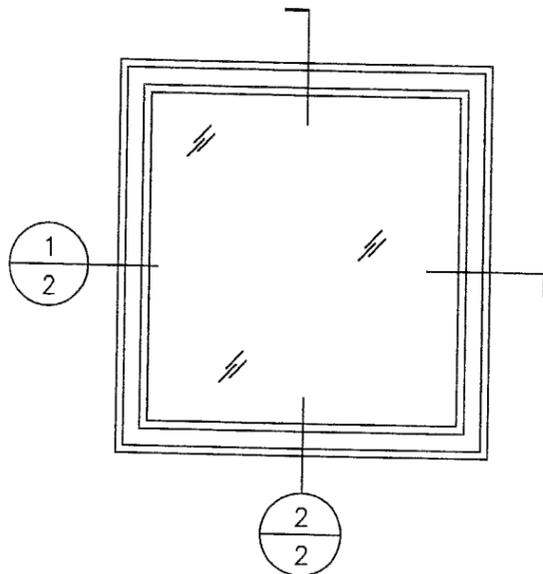
Approved as complying with the  
Florida Building Code  
Date **MAY 19, 2005**  
NOA# **05-0177-08**  
Miami Dade Product Control  
Division  
By *[Signature]*

Documents Prepared By:  
*RW* BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
*Wendell W. Haney 4/26/05*  
Wendell W. Haney, P.E. No. 54158

ITEM: NOTES & ELEVATIONS

FILE#: PO-LMI.1

SHEET#: 1 OF 4



- 1. ALL FRAME & VENT CORNERS ARE SECURED WITH #12 SSSMS.
- 2. ALL JOINTS TO BE SEALED WITH SMALL JOINT SEALER.

1 HORIZONTAL CROSS SECTION  
2

2 VERTICAL CROSS SECTION  
2

Documents Prepared By:  
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*Wendell W. Haney* 4/24/05  
 Wendell W. Haney, P.E. No. 54158

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 TAMPA, FLORIDA 33634 (813) 886-0666 (Fax)

Scale: N.T.S.  
 Date: 01/10/05  
 Drawn: RAH  
 Checked: WHH

TAS 201-202-203  
 LARGE MISSILE  
 PROJECT OUT

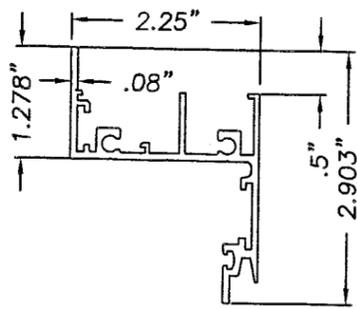
Approved as complying with the  
 Florida Building Code  
 Date MAY 19, 2005  
 NOA# 05-0127-08  
 Miami Dade Product Control  
 Division  
 By: *Marcos Perez*

ITEM: CROSS SECTIONS

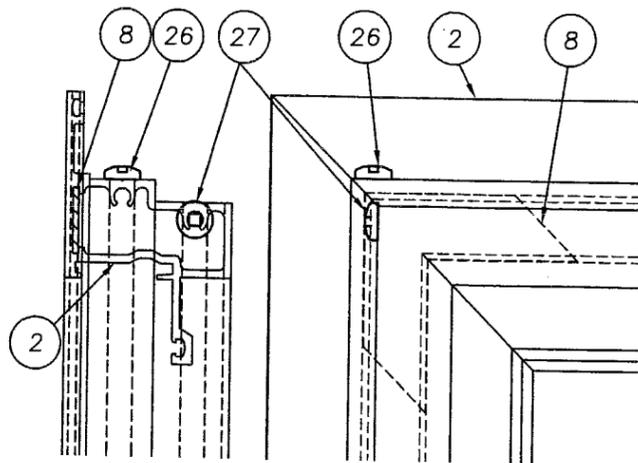
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SHEET#: 2 OF 4

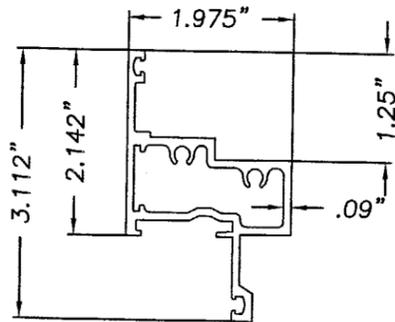
Rev. #	Rev. Date	Rev. By	Comments
1	4/25/05	EW	PER DADÉ COMMENTS



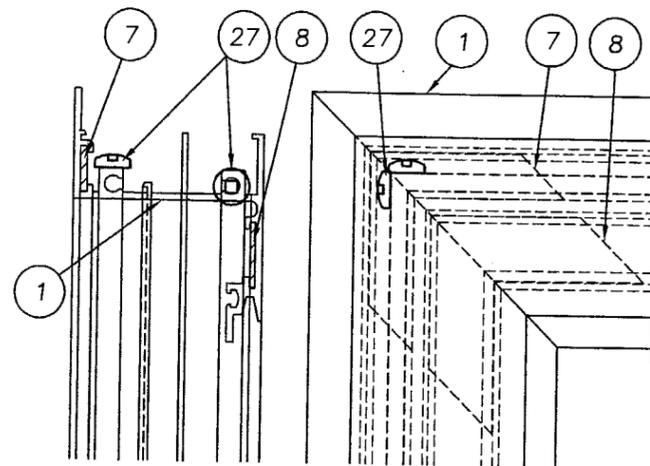
1 FRAME (SUN-101)  
0.854 #/FT



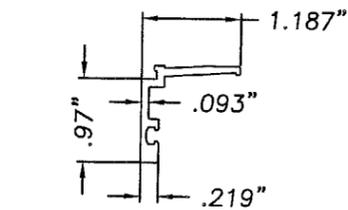
VENT CORNER ASSEMBLY



2 VENT (SUN-102)  
1.045 #/FT

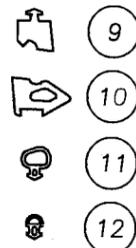


FRAME CORNER ASSEMBLY

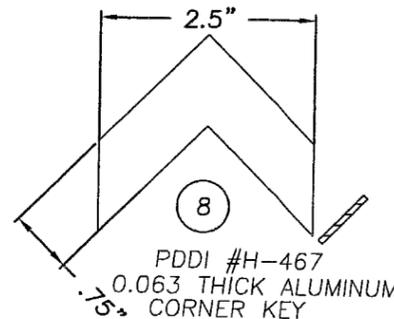
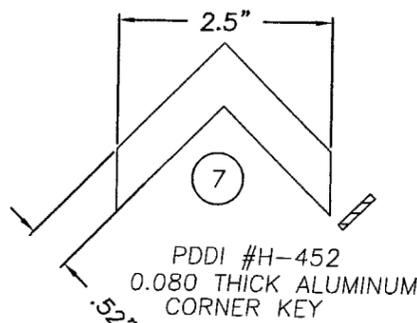


3 GLAZING BEAD (SUN-103)  
0.291 #/FT

COMPONENTS



GASKETS, SEALS & WEDGES



ITEM	PART #	DESCRIPTION	MATERIAL
1	SUN-101	FRAME	6063-T6
2	SUN-102	VENT	6063-T6
3	SUN-103	GLAZING BEAD	6063-T6
4	-	1/4" MAX. SHIM	WOOD
5	-	SNUBBER	-
6	-	SNUBBER	-
7	H-452	.080 ALUMINUM CORNER KEY	3003
8	H-467	.063 ALUMINUM CORNER KEY	3003
9	TR-6142N	INTERIOR GLAZING SPONGE	NEOPRENE
10	TR-1000E	EXTERIOR GLAZING WEDGE	EPDM
11	TR-4392P	FRAME BULB SEAL	EPDM
12	TR-13100P	VENT BULB SEAL	PEROX. EPDM
13	NO PART #	SETTING BLOCK 1/8" X 3/4" X 2" LONG	PVC/EPDM
14	34.xx.00.100	4 BAR HINGE	STAINLESS
15	24.30.xx.xxx	LOCK ASSEMBLY W/ FRAME GASKET	ZAMACK
16	23.050.92	SUPPORT PLATE	PLATED STL.
17	1190X.92	TIE BAR ASSEMBLY	PLATED STL.
18	31842	TIE BAR GUIDE	NYLON
19	3133X.92	KEEPER	PLATED STL.
20	11.42.xx.xxx	OPERATOR	ZAMACK
21	-	#8 X 1/2" PFH SSSMS	STAINLESS
22	-	#8 X 3/4" PFH UNDERCUT SSSMS	STAINLESS
23	-	#8 X 1" PPH SSSMS	STAINLESS
24	19298.92	#10-24 X 9/16" T/F PPH MS	PLATED STL.
25	-	#10 x 1/2" Sq.Dr.PH SSSMS	STAINLESS
26	-	#12 x 5/8" Sq.Dr.PH SSSMS	STAINLESS
27	-	#12 x 1 1/4" Sq.Dr.PH SSSMS	STAINLESS
28	-	LAMINATED GLASS: 1/4" H.S. / 0.090 SENTRY GLASS PLUS BY DUPONT / 1/4" H.S.	-
29	SPECTREM 2	PERIMETER SEALANT	SILICONE
30	-	SCREEN	-
31	-	ANCHOR (SEE ANCHOR SCHEDULE, SHEET 4)	-
32	10579.XX	CRANK	ZAMACK

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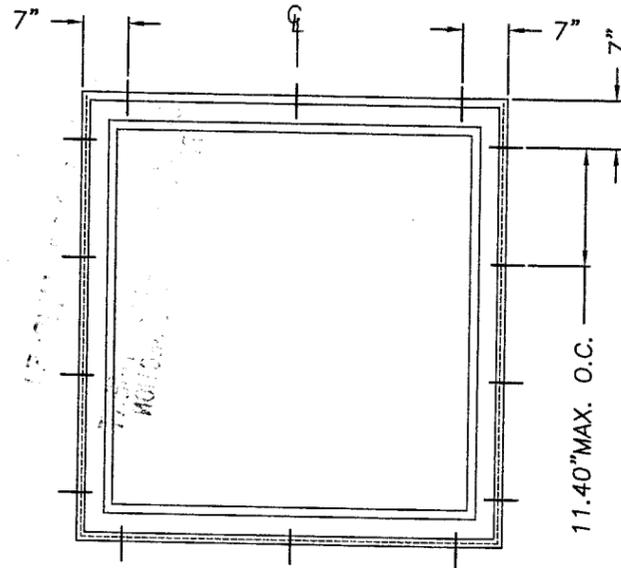
TAS 201-202-203  
LARGE MISSILE

**PROJECT OUT**

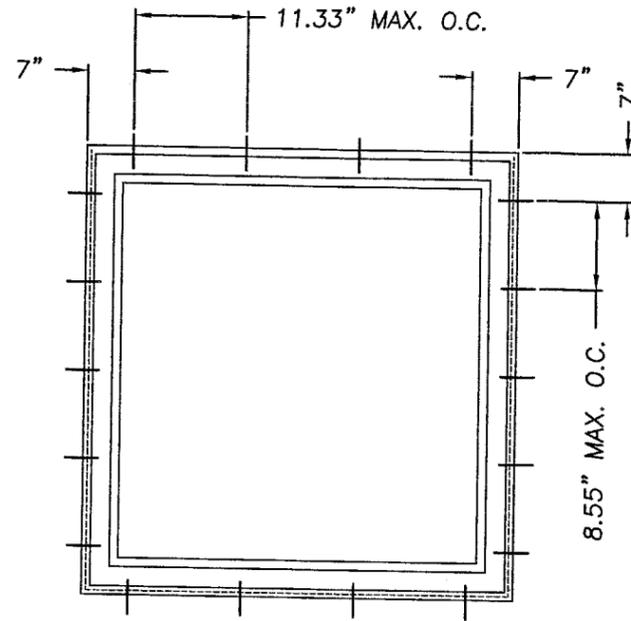
Approved as complying with the Florida Building Code  
Date MAY 19, 2005  
NOAH 05-0127.08  
Miami Dade Product Control Division  
By: *[Signature]*

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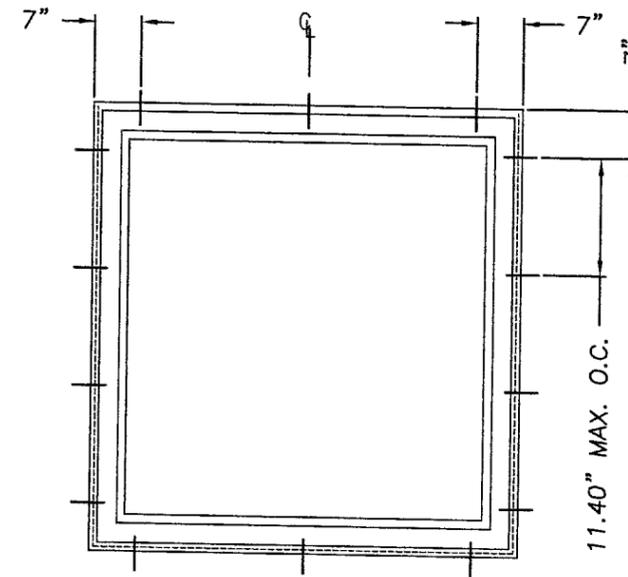
ITEM: COMPONENTS & BOM  
FILE#: PO-LMI.1  
SHEET#: 3 OF 4



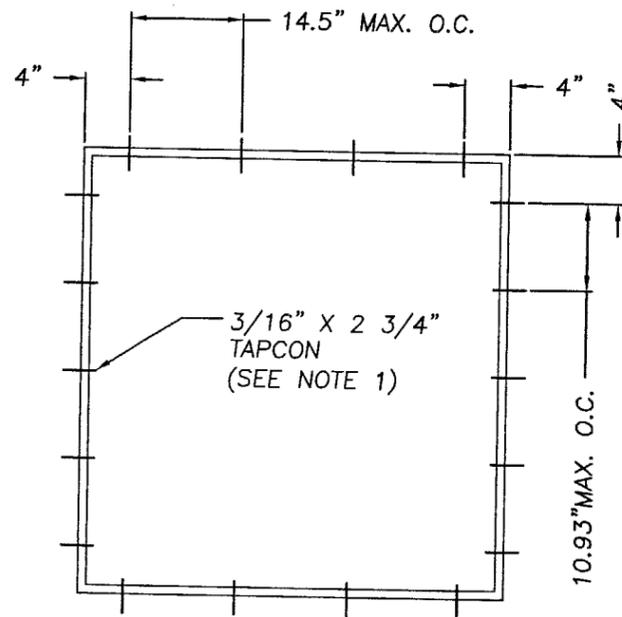
1/4" TAPCON ANCHOR LOCATIONS  
(SEE NOTE 2)



#14 SMS ANCHOR LOCATIONS



#24 WOOD SCREW ANCHOR LOCATIONS



WOOD BUCK ANCHOR LOCATIONS

**NOTES:**

1. IF NECESSARY, ADJUST TAPCON LOCATIONS TO MAINTAIN A MINIMUM 2.0" CLEARANCE FROM MORTAR JOINTS.
2. IF NECESSARY, ADJUST TAPCON LOCATIONS TO MAINTAIN A MINIMUM 2.5" CLEARANCE FROM MORTAR JOINTS.

ANCHOR SCHEDULE		
SUBSTRATE	ANCHOR	SPACING
CONCRETE:	1/4" DIA. TAPCON WITH 1 1/4" EMBED	SEE ELEVATION
STEEL: (16 GA. MIN.)	# 14 S.M.S.	SEE ELEVATION
WOOD: 1 X	1/4" DIA. TAPCON, WITH 1 1/4" EMBEDMENT INTO CONCRETE.	SEE ELEVATION
WOOD: 2 X	# 24 WOOD SCREW WITH 1 3/8" EMBED	SEE ELEVATION

Documents Prepared By:

*RW* BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

Florida Board of Professional Engineers  
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*Wendell W. Haney* 4/26/05  
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LARGE MISSILE		

Approved as complying with the Florida Building Code  
Date MAY 19, 2005  
NOAH 05-0127.08  
Miami Dade Product Control Division  
By *Manuel Perez*

ITEM: ANCHORING  
FILE#: PO-LMI.1  
SHEET#: 4 OF 4