



**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
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

www.miamidade.gov/building/home/asp

NOTICE OF ACCEPTANCE (NOA)

Air Master Awning, Inc.
Road #2, Km #56.7, P.O. BOX 2097
Barceloneta, PR 00617

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 Section 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 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. BORA 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 "250-IR" Aluminum Single Hung Window L.M.I.

APPROVAL DOCUMENT: Drawing No. **1456**, titled "Series 250-IR Single Hung Impact Aluminum Windows", sheets 1 through 3 of 3, dated 10/17/05 with revision A1 dated 11/02/10, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer Engineering & Consulting, P.A., 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 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 # **05-1121.07** and 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. 10-1112.08
Expiration Date: February 23, 2016
Approval Date: February 03, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1456**, titled "Series 250-IR Single Hung Impact Aluminum Windows", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 10/17/05 with revision A1 dated 11/02/10, signed and sealed by W.W. Schaefer Engineering & Consulting, P.A.

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, TAS 202-94along with installation diagram of aluminum fixed window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0263-0828-05**, dated 08/29/-09/02/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA #05-1121.07)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/02/10, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

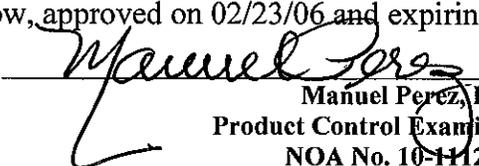
1. Notice of Acceptance No. **06-0216.06** issued to **Solutia, Inc.** for their "Saflex III G Clear or colored Interlayer" dated 05/04/06, expiring on 05/21/11.

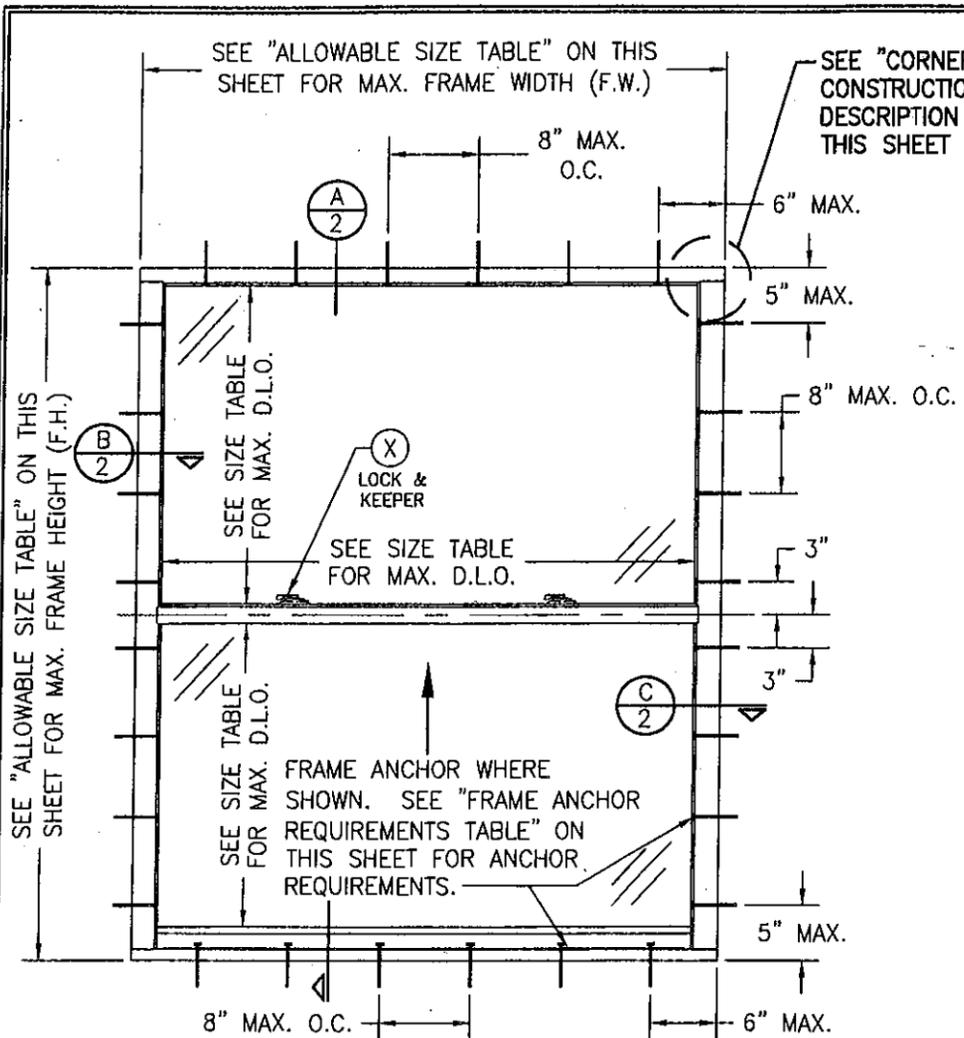
F. STATEMENTS

1. Statement letter of conformance, 11/02/10, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated 11/02/10, signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

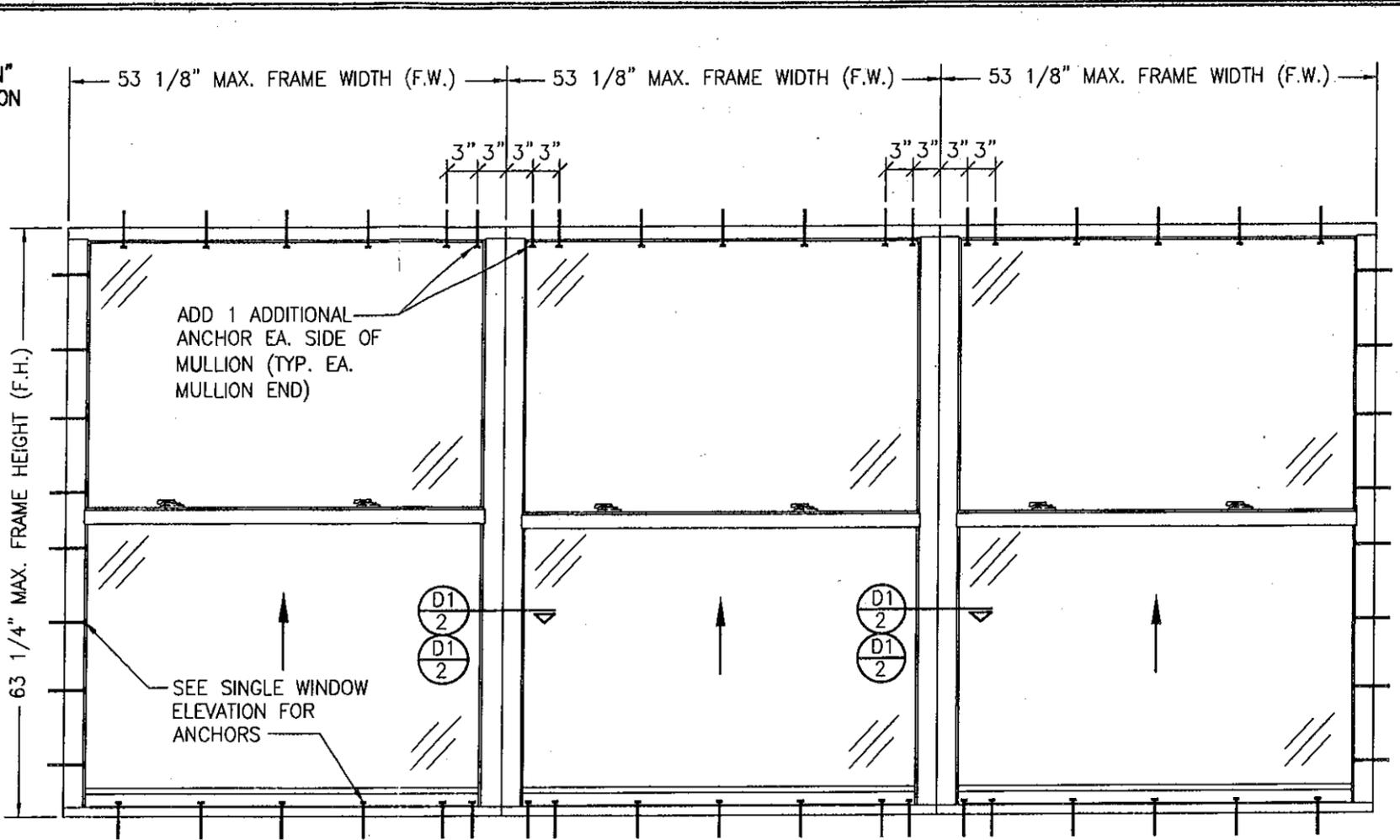
1. Notice of Acceptance No. **05-1121.07**, issued to Air Master Awning, Inc. for their Series 250-IR Aluminum Single Hung Window, approved on 02/23/06 and expiring on 02/23/11.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-112.08
Expiration Date: February 23, 2016
Approval Date: February 03, 2011



**EXTERIOR ELEVATION
SINGLE HUNG WINDOW**

SCALE: 3/4" = 1'-0"



**EXTERIOR ELEVATION
MULTIPLE SINGLE HUNG WINDOWS**

SCALE: 3/4" = 1'-0"

(MAX. FOUR UNITS MAY BE COMBINED IN ONE OPENING)
SEE SINGLE WINDOW ELEVATION FOR DETAIL NOT SHOWN

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
60 PSF	60 PSF
SINGLE AND MULLED UNITS	

CORNER CONSTRUCTION

FRAME ASSEMBLY: THE HORIZONTAL MEMBERS RUN THROUGH WHILE THE VERTICAL MEMBERS ARE SQUARE CUT, BUTTED, ATTACHED TO THE HORIZONTALS WITH 2 NO. 8 X 3/4" P.H. SCREWS AND SEALED WITH H.B. FULLER PTI 2000 SEAM SEALER.
VENT ASSEMBLY: THE HORIZONTAL MEMBERS RUN THROUGH WHILE THE VERTICAL MEMBERS ARE SQUARE CUT, BUTTED, ATTACHED TO THE HORIZONTALS WITH 2 NO. 8 X 3/4" P.H. SCREWS PER CORNER AT THE TOP RAIL AND 1 PER CORNER AT THE BOTTOM RAIL AND SEALED WITH H.B. FULLER PTI 2000 SEAM SEALER.

ALLOWABLE SIZE TABLE (SINGLE WINDOWS)			
MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM VERTICAL D.L.O.'S (IN.)	MAXIMUM HORIZONTAL D.L.O.'S (IN.)
63 1/4"	53 1/8"	28 3/8"	48 3/8"
74 1/4"	37 1/8"	33 7/8"	32 3/8"

FRAME ANCHOR REQUIREMENTS TABLE			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS, POWERS RAWL TAPPER OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

- GENERAL NOTES:**
- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 - OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 - ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 - THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
 - THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 - IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
 - ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 - DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
 - NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 - MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 10-1112-08
Expiration Date FEB. 23, 2016
By *Manuel Perez*
Miami Dade Product Control Division



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
DATE: 11/02/10	DATE: 10/17/05
BY: W.W.S.	
REVISION DESCRIPTION: A1 UPDATE TO CURRENT STANDARDS	
NO.:	

DRAWING TITLE: **SERIES 250-IR SINGLE HUNG IMPACT ALUMINUM WINDOWS**

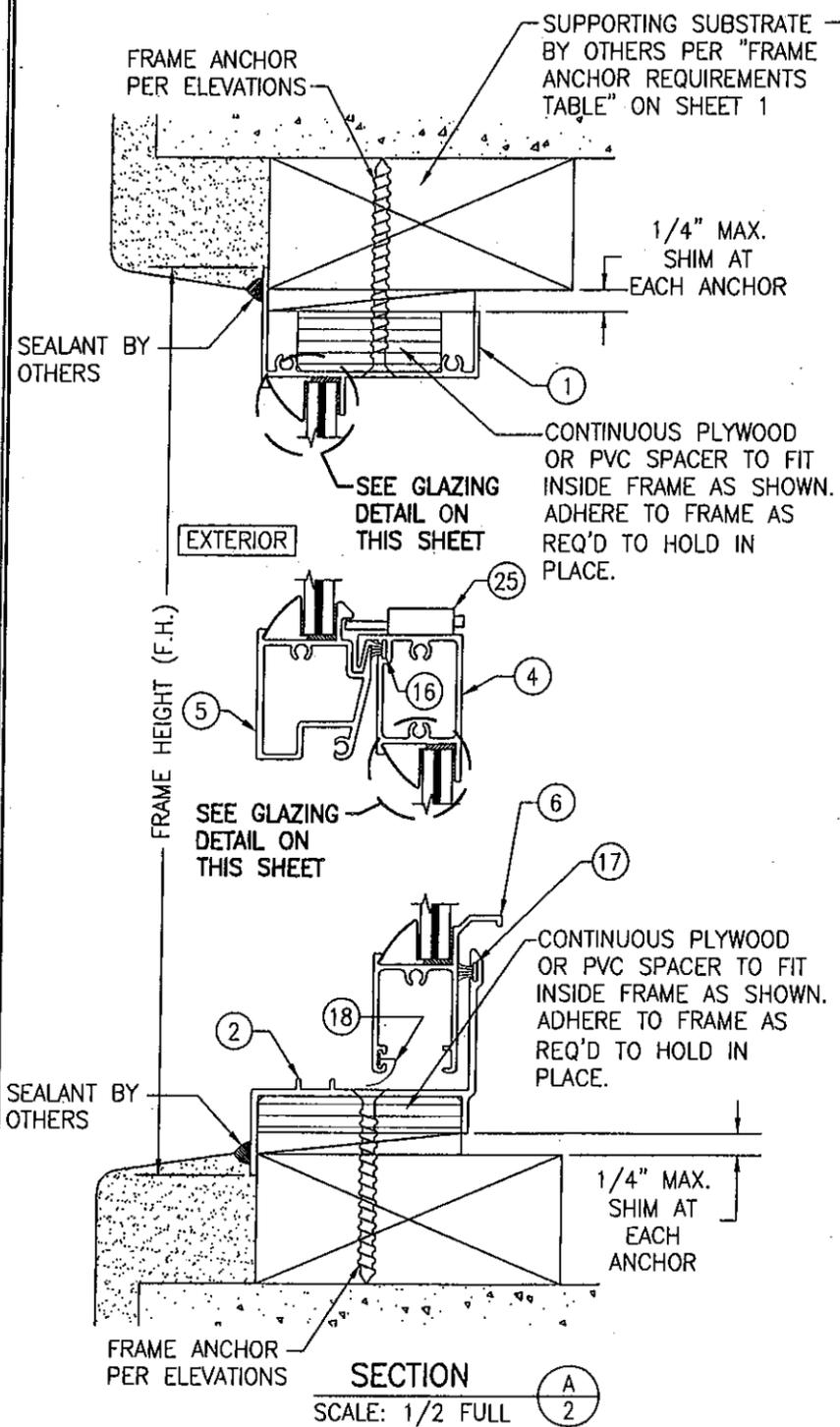
CONSULTANTS: **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

MANUFACTURER: **AIR MASTER AWNING, INC.**
CARR. #2 INTERIOR, KM. 56.7
BARCELONETA, P.R. 00617
787-846-2110

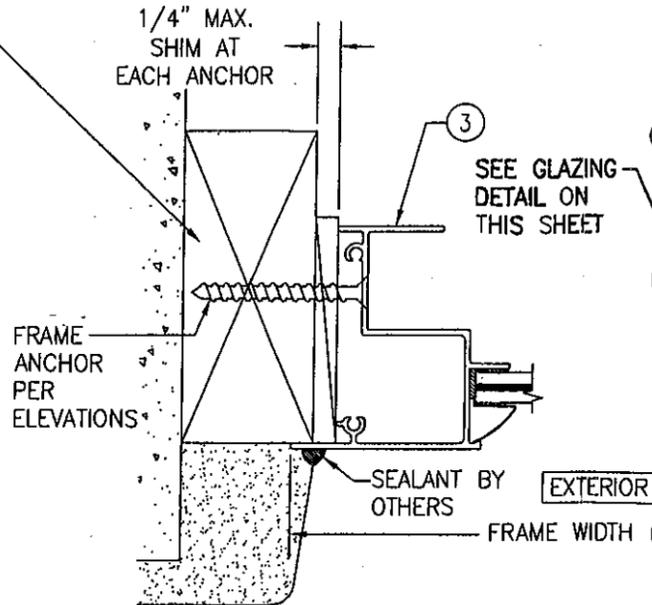
CERTIFICATION: **NOV 02 2010**

DRAWING NO.: **1456** REV. **A**

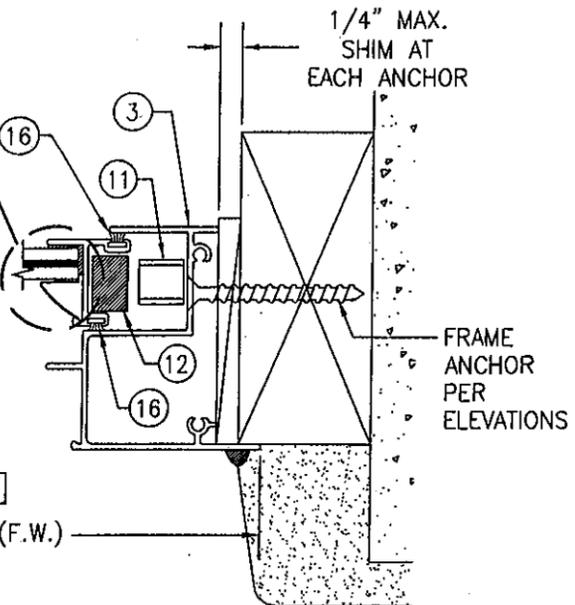
SHEET NO.: **1** OF **3**



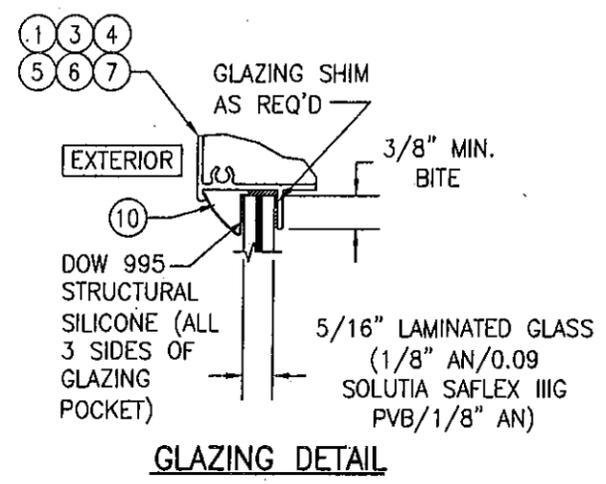
SECTION A
SCALE: 1/2 FULL



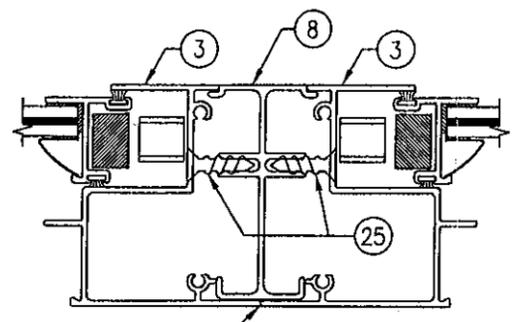
SECTION B
SCALE: 1/2 FULL



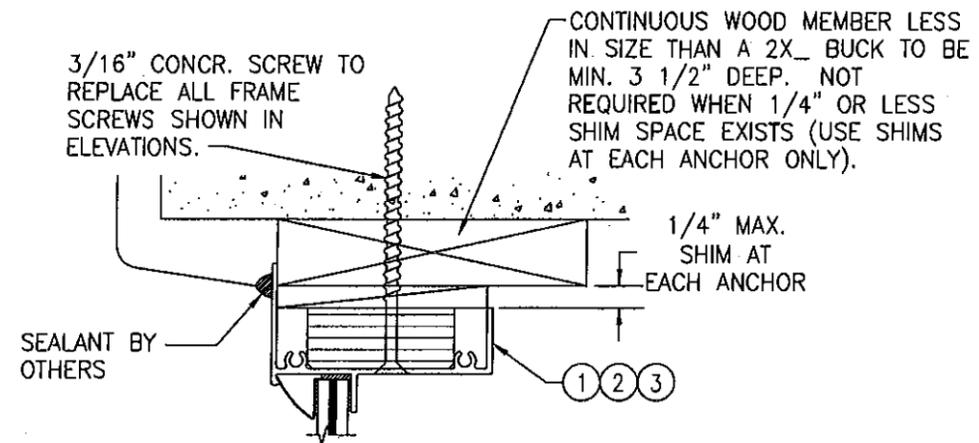
SECTION C
SCALE: 1/2 FULL



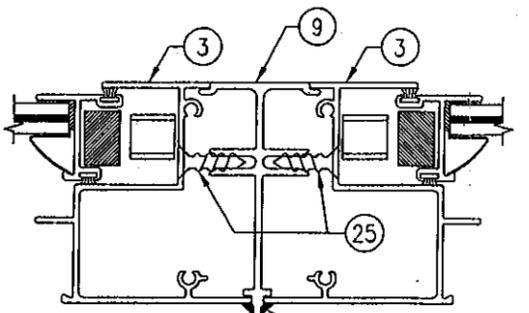
GLAZING DETAIL



SECTION D1
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

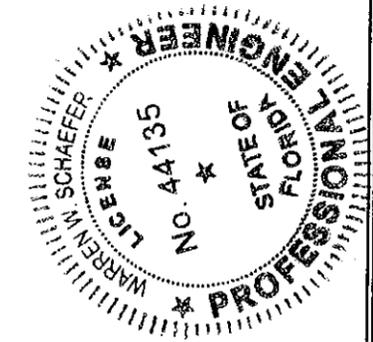


OPTIONAL DIRECT MOUNT DETAIL
TO BLOCK OR CONCRETE WITH SPACER OR SHIM
HEAD SECTION SHOWN, SIDES AND SILL SIMILAR

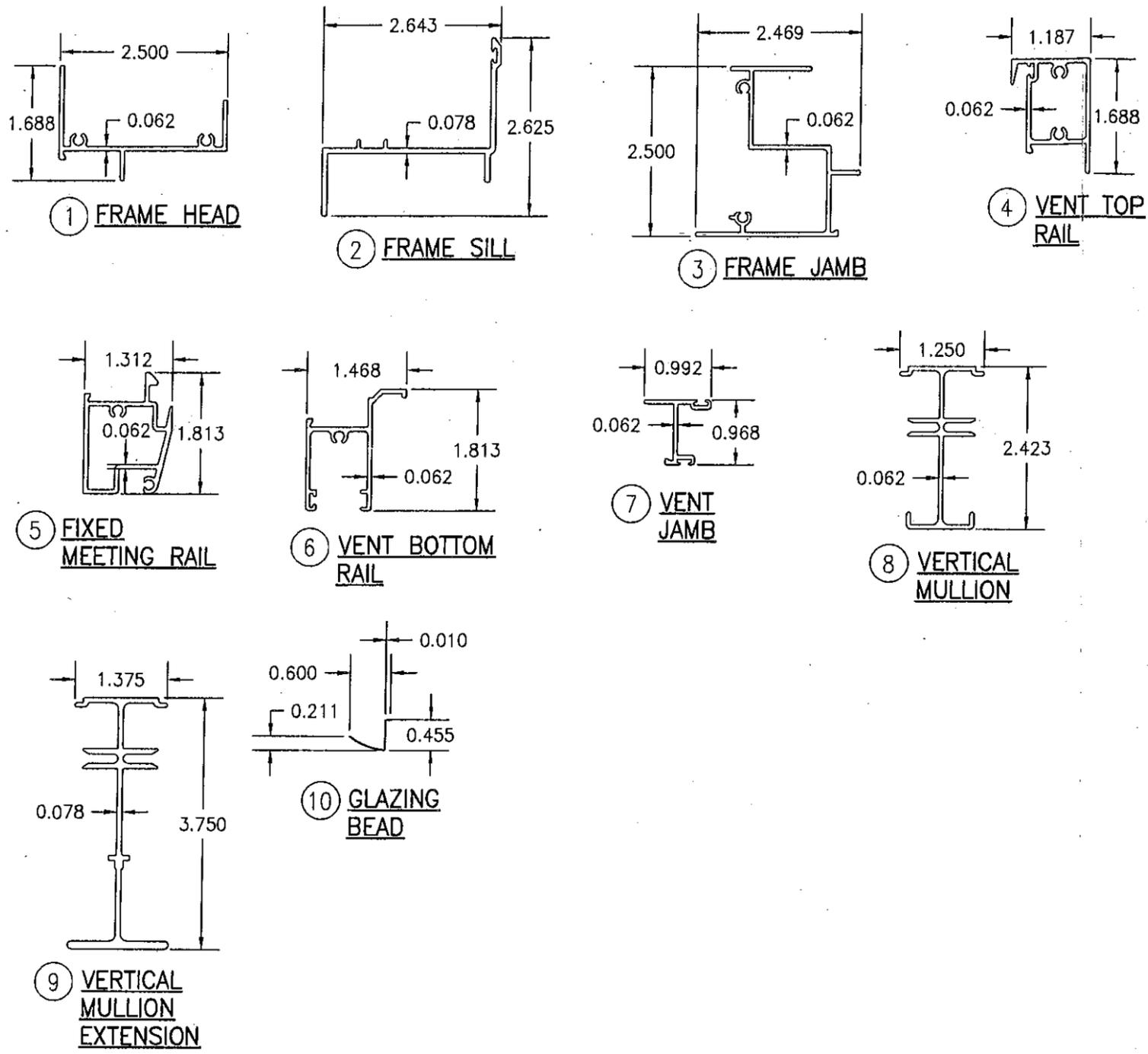


SECTION D2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 10-1117-08
Expiration Date FEB. 23, 2016
By *Manuel Perez*
Miami Trade Product Control
Division



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/17/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE SERIES 250-IR SINGLE HUNG IMPACT ALUMINUM WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER AIR MASTER AWNING, INC. CARR. #2 INTERIOR, KM. 56.7 BARCELONETA, P.R. 00617 787-846-2110
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	NOV 02 2010
DRAWING NO. 1456	REV. A
SHEET NO. 2 OF 3	



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS & EXTRUSIONS			
1	TR-63	FRAME HEAD	BONNELL OR SIMILIAR / 6063-T5
2	TR-62	FRAME SILL	BONNELL OR SIMILIAR / 6063-T5
3	TR-61	FRAME JAMB	BONNELL OR SIMILIAR / 6063-T6
4	TR-64	VENT TOP RAIL	BONNELL OR SIMILIAR / 6063-T5
5	TR-66	FIXED MEETING RAIL	BONNELL OR SIMILIAR / 6063-T5
6	TR-65	VENT BOTTOM RAIL	BONNELL OR SIMILIAR / 6063-T5
7	TR-67	VENT JAMB	BONNELL OR SIMILIAR / 6063-T5
8	TR-68	VERTICAL MULLION	BONNELL OR SIMILIAR / 6063-T6
9	TR-72	VERTICAL MULLION EXTENSION	BONNELL OR SIMILIAR / 6063-T6
10	ACL-AMB-8	ROLL FORMED GL. BEAD	CURVA TECH / 3003
11	10514	SPRING & PULLEY BALANCE	BALANCE SYSTEMS BSI
12	10696	CAM SASH BUSHING	MASTER TOOL CO.
SEALS AND SEALANTS			
16	96817	WEATHERSTRIP	ULTRAFAB
17	22348	WEATHERSTRIP	ULTRAFAB
18	96980	VINYL	SOUTHERN PLASTICS
FASTENERS			
21	-	NO. 10 X 3/4" F.F.D. SCREW	5" FROM ENDS & 8" O.C.
HARDWARE			
25	10698	SASH LOCK	SULLIVAN & ASSOCIATES

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/17/05
NO.	REVISION DESCRIPTION

DRAWING TITLE
SERIES 250-IR SINGLE HUNG IMPACT ALUMINUM WINDOWS

MANUFACTURER
AIR MASTER AWNING, INC.
 CARR. #2 INTERIOR, KM. 56.7
 BARCELONETA, P.R. 00617
 787-846-2110

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No **10-1113.08**
 Expiration Date **FEB. 23, 2016**
 By *Warren W. Schaefer*
 Miami Dade Product Control
 Division



CERTIFICATION	NOV 02 2010	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1456	REV. A
SHEET NO.	3	OF 3