



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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Wausau Window and Wall Systems
P.O. Box 1746
Wausau, WI 54402

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 3250 HP Inswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1086, titled: **3250 HP Inswing Casement Window (Large Missile Impact)**, sheets 1 through 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/14/02 with revision "A2" on 08/10/05, signed and sealed by Warren W. Schaefer, P.E., 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 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 **revises and supersedes** NOA # 02-0215.13 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No 05-0915.04
Expiration Date: April 25, 2007
Approval Date: April 13, 2006
Page 1

Wausau Window and Wall Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1086**, Sheets 1 through 4 of 4, titled Series 3250 HP Inswing Casement Window (Large Missile Impact), dated 01/14/02 with revision **A2** on 08/10/05, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 and TAS 202-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum fixed and casement windows, each 146" wide and 72" high, prepared by Architectural Testing, Inc., Test Report No. **ATI-06-30280.01**, dated 01/22/02, signed and sealed by Allen N. Reeves, P.E.
"Submitted under NOA# 02-0215.13"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 01/18/06, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-??

D. QUALITY ASSURANCE

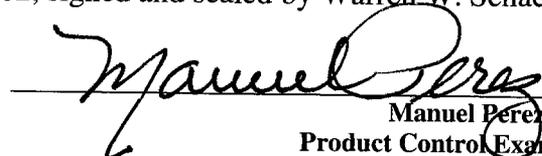
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **00-0509.06** issued to **Viracon, Inc.** for "**StormGuard (laminate)**" dated 05/22/03, expiring on 04/14/08.

F. STATEMENTS

1. Statement letter of compliance issued by W. W. Schaefer Engineering & Consulting, P.A., dated January 29, 2002, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated January 29, 2002, signed and sealed by Warren W. Schaefer, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No 02-0215.13
Expiration Date: April 25, 2007
Approval Date: April 13, 2006

Wausau Window and Wall Systems

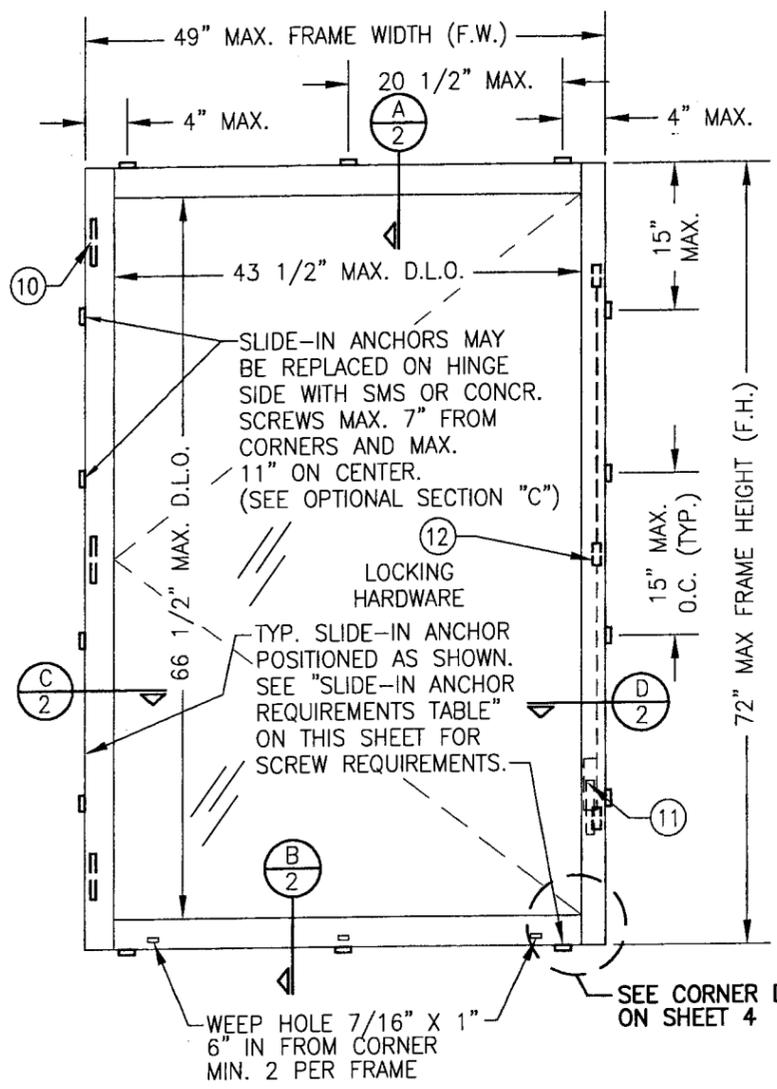
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

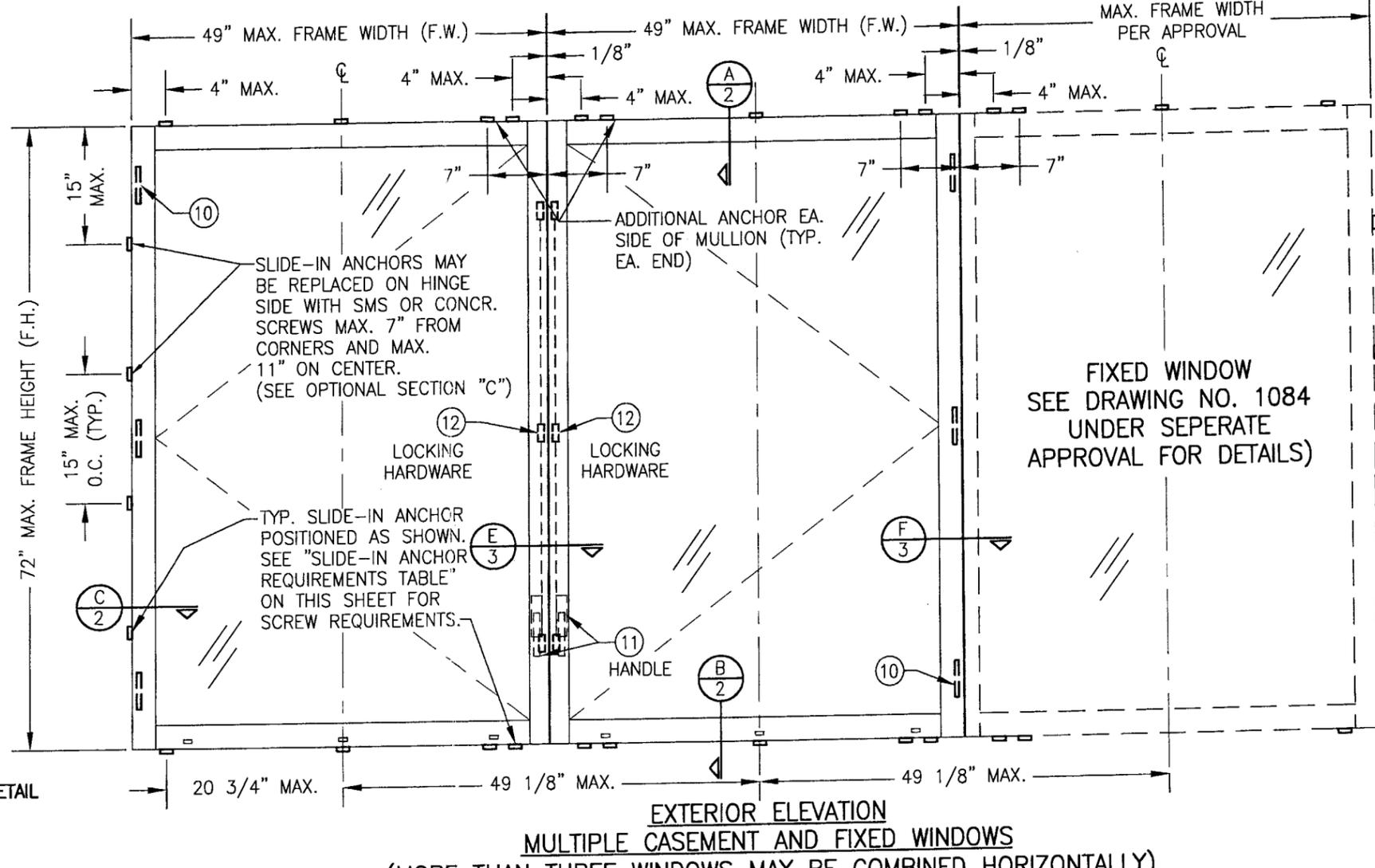
1. Notice of Acceptance No. **02-0215.13**, issued to Wausau Windows & Wall Systems, Series 3250 HP Inswing Casement Window (Large Missile Impact), approved on 04/25/02 and expiring on 04/25/07.
2. Letter from the consultant, dated 03/15/06, stating that the product is compliance with the Florida Building Code (FBC).


Manuel Perez, P.E.
Product Control Examiner
NOA No 02-0215.13
Expiration Date: April 25, 2007
Approval Date: April 13, 2006

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 01/14/02
DATE 08/10/05	BY K.P.S.
REVISION DESCRIPTION UPDATE GENERAL NOTES TO 2004	NO. A1
CODE COMPLIANT	NO. A2
ADDED MULLION END ANCHORS & REDUCED FRAME ANCHOR SPACING TO 15"	NO. A3



**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT WINDOW**
SCALE: 3/4"=1'-0"



**EXTERIOR ELEVATION
MULTIPLE CASEMENT AND FIXED WINDOWS**
(MORE THAN THREE WINDOWS MAY BE COMBINED HORIZONTALLY)
SEE SINGLE CASEMENT WINDOW ELEVATION FOR DETAILS
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
80 PSF	90 PSF

NOTE: WHEN DIRECT MOUNTING TO A BLOCK/CONCRETE OPENING WITH CONCR. SCREWS, THE HEAD & SILL MUST BE CONCRETE, THE SIDES MAY BE BLOCK OR CONCRETE.

GENERAL NOTES

- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOAD" TABLE.
- BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FBC PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
- THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONES.
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
- ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
- ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
 - ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
 - ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
 - ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. F_y = 50 ksi.
 - ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GA. F_y = 36 ksi.

SLIDE-IN ANCHOR FASTENER REQUIREMENTS TABLE				
OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	NO. FASTENERS PER ANCHOR INTO SUBSTRATE	MINIMUM EMBED	MINIMUM EDGE DIST.
WOOD	NO. 14 S.S. SMS	2	1 3/8"	1"
MIN. 16 GA. STUD	NO. 14 TEK SCREW	2	FULL	1/2"
MIN. 12 GA. STRUCT. STEEL	NO. 14 TEK SCREW	2	FULL	1/2"
BLOCK/CONCRETE	(1) 1/4" CONCR. SCREW	2	1 1/4"	2 1/4"

(1) CONCRETE SCREWS SHALL BE ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).
ANCHOR NOTE: WHEN ANCHORED TO A BLOCK/CONCRETE OPENING CLIPS MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2X NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2X BUCK, NO. 14 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 1/4" CONCR. SCREWS SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISSIMILAR MATERIALS (BLOCK/CONCRETE, STEEL & ALUMINUM).

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. **05-0915.04**
 Expiration Date **APRIL 25, 2007**
 By *Manuel Perez*
 Miami Dade Product Control Division

DRAWING TITLE
3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4802 FAX: 561-775-4903

MANUFACTURER
WAUSAU WINDOW & WALL SYSTEMS
 1415 WEST STREET
 WAUSAU, WI 54402-1746
 715-845-2161

CERTIFICATION
 AUG 10 2005
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. 1086
REV. A
SHEET NO. 1 OF 4

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/14/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE
3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)

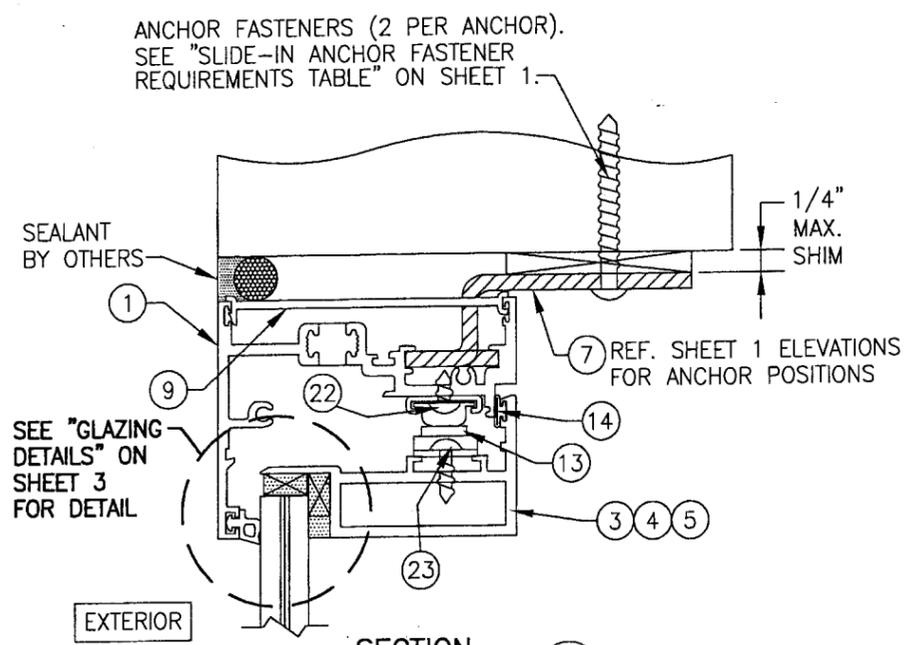
MANUFACTURER
WAUSAU WINDOW & WALL SYSTEMS
1415 WEST STREET
WAUSAU, WI. 54402-1746
715-845-2161

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
AUG 10 2005

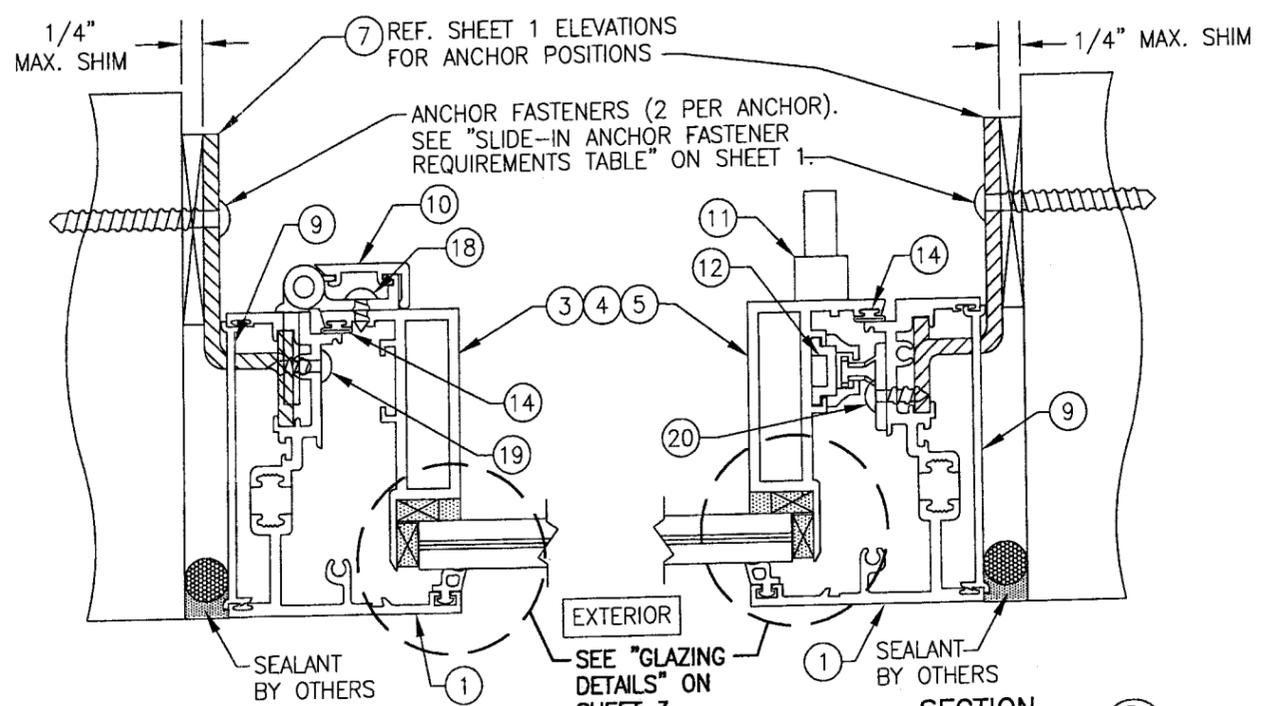
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. **1086** REV. **A**
SHEET NO. **2** OF **4**



SECTION A
SCALE: 1/2 FULL

(TYP. FOR DIRECT MOUNT TO WOOD, METAL STUD, STEEL OR BLOCK/CONCRETE WITH SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS FOR SHEAR SCREW MOUNT AT HINGE SIDE AND DIRECT MOUNT WITH A SPACER.

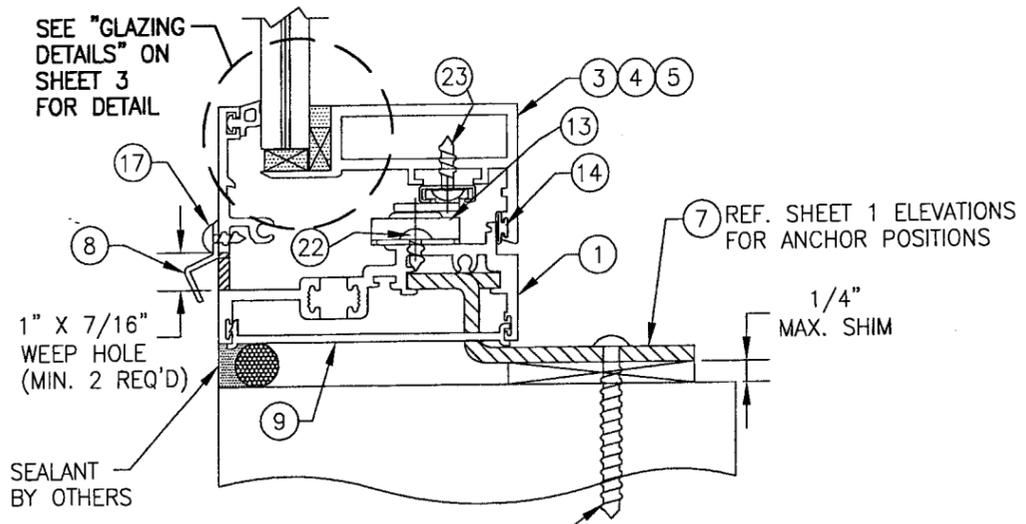


SECTION C
SCALE: 1/2 FULL

(TYP. FOR DIRECT MOUNT TO WOOD, METAL STUD, STEEL OR BLOCK/CONCRETE WITH SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS FOR SHEAR SCREW MOUNT AT HINGE SIDE AND DIRECT MOUNT WITH A SPACER.

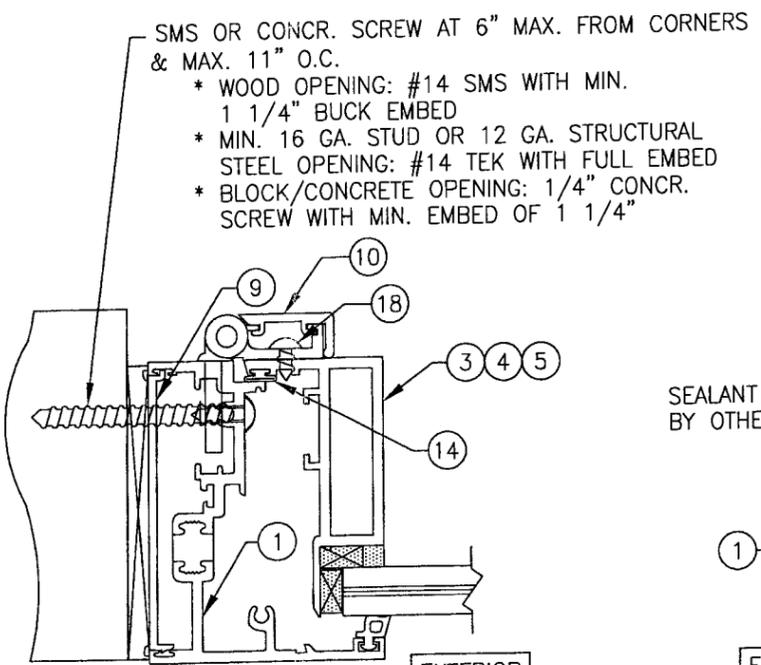
SECTION D
SCALE: 1/2 FULL

(TYP. FOR DIRECT MOUNT TO WOOD, METAL STUD, STEEL OR BLOCK/CONCRETE WITH SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS FOR SHEAR SCREW MOUNT AT HINGE SIDE AND DIRECT MOUNT WITH A SPACER.



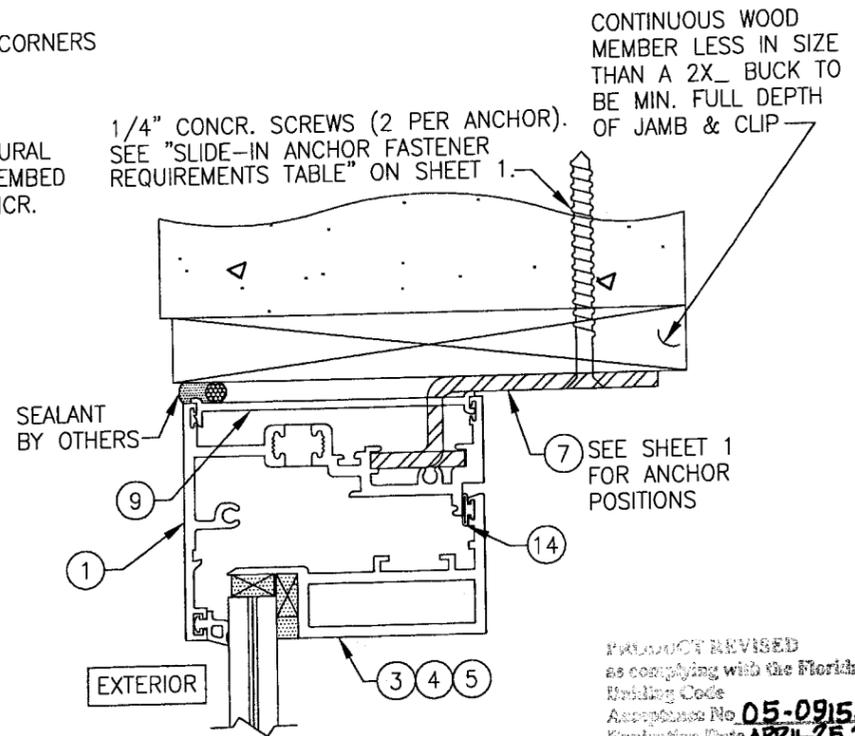
SECTION B
SCALE: 1/2 FULL

(TYP. FOR DIRECT MOUNT TO WOOD, METAL STUD, STEEL OR BLOCK/CONCRETE WITH SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS FOR SHEAR SCREW MOUNT AT HINGE SIDE AND DIRECT MOUNT WITH A SPACER.



OPTIONAL SECTION C
SCALE: 1/2 FULL

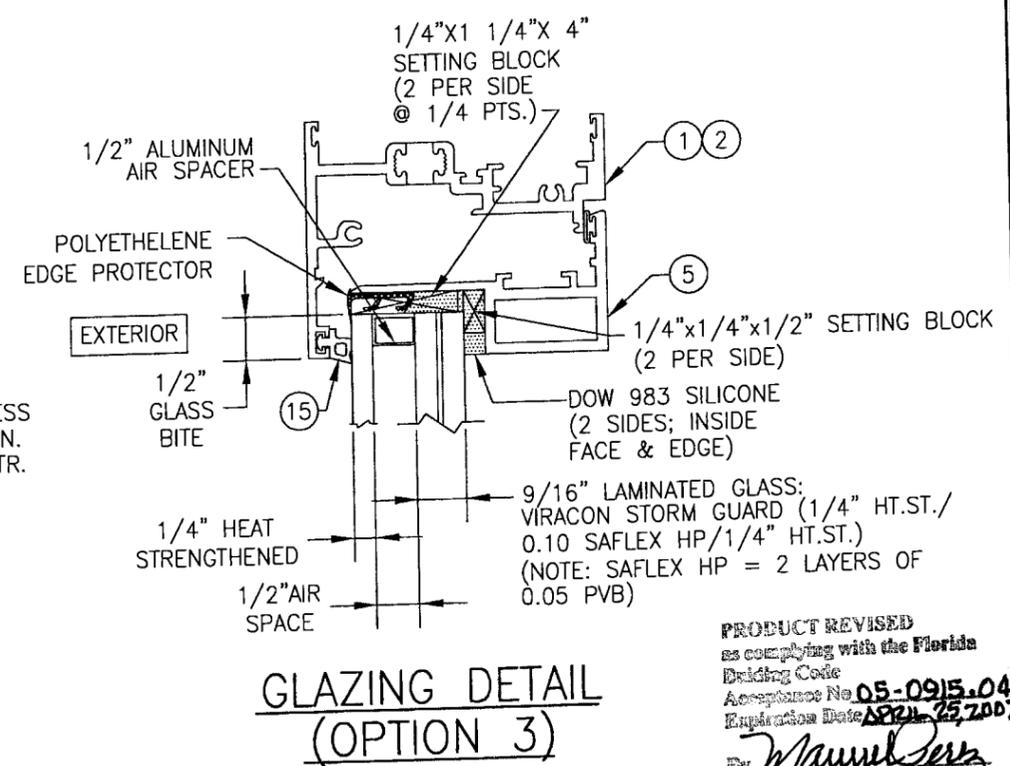
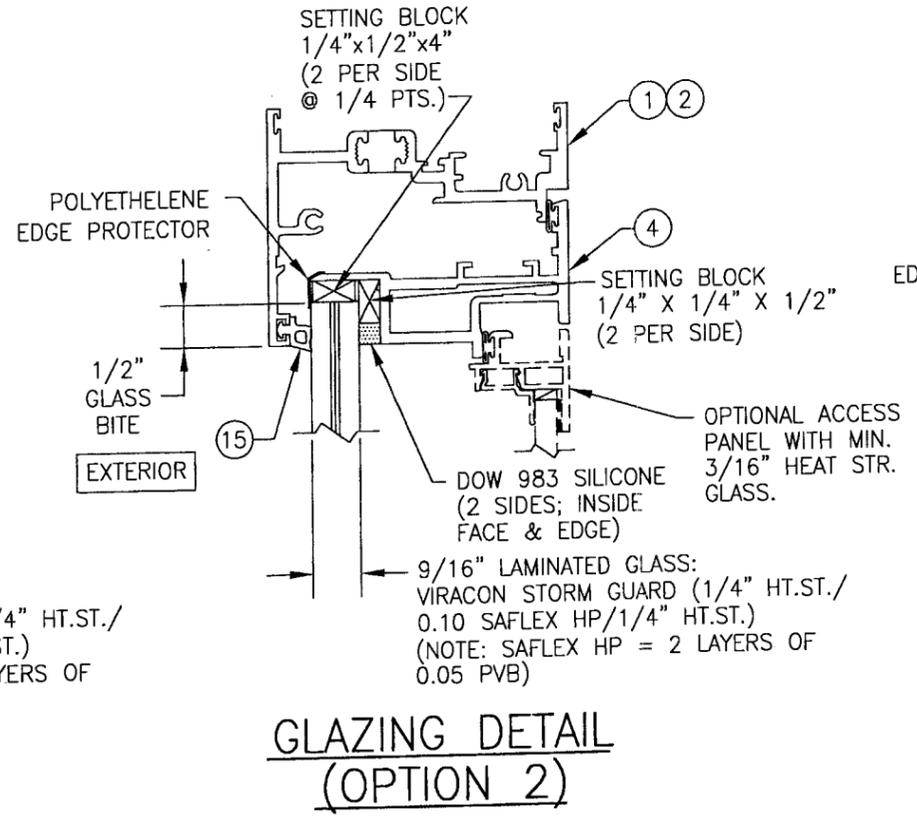
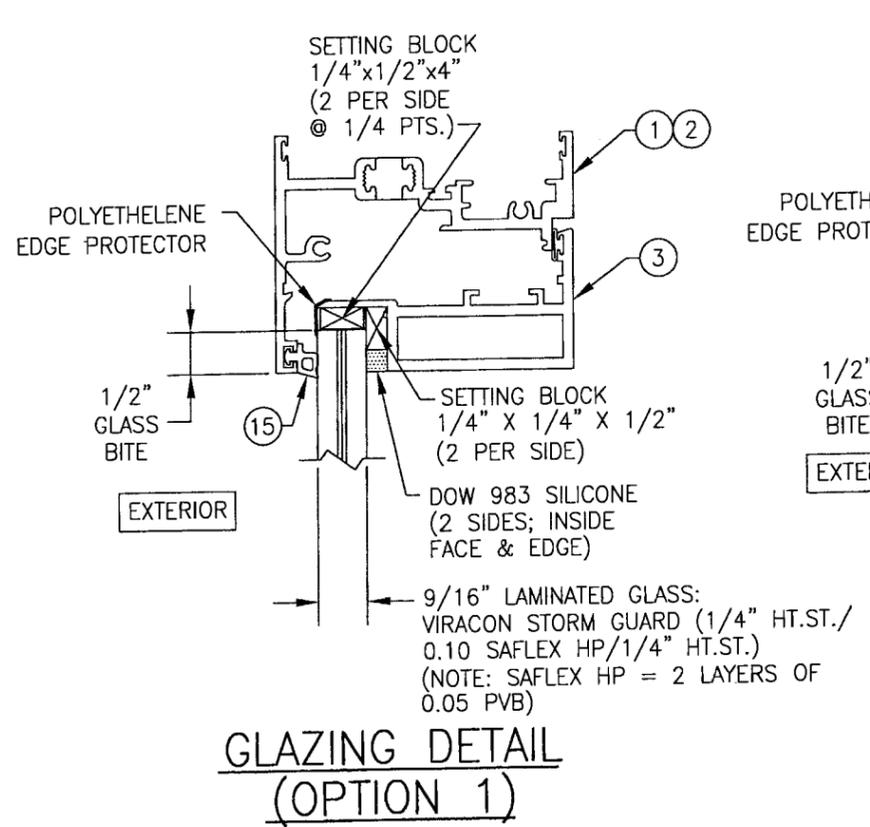
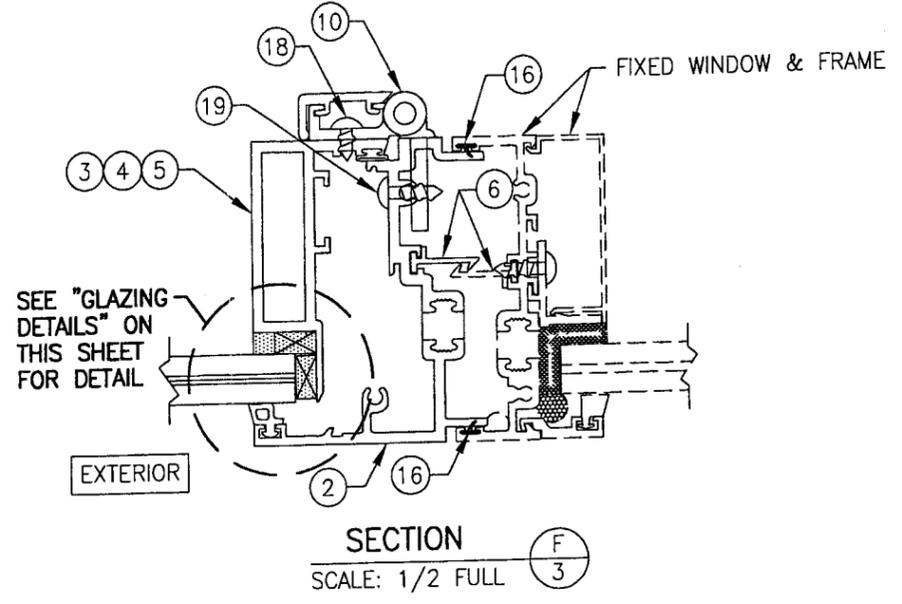
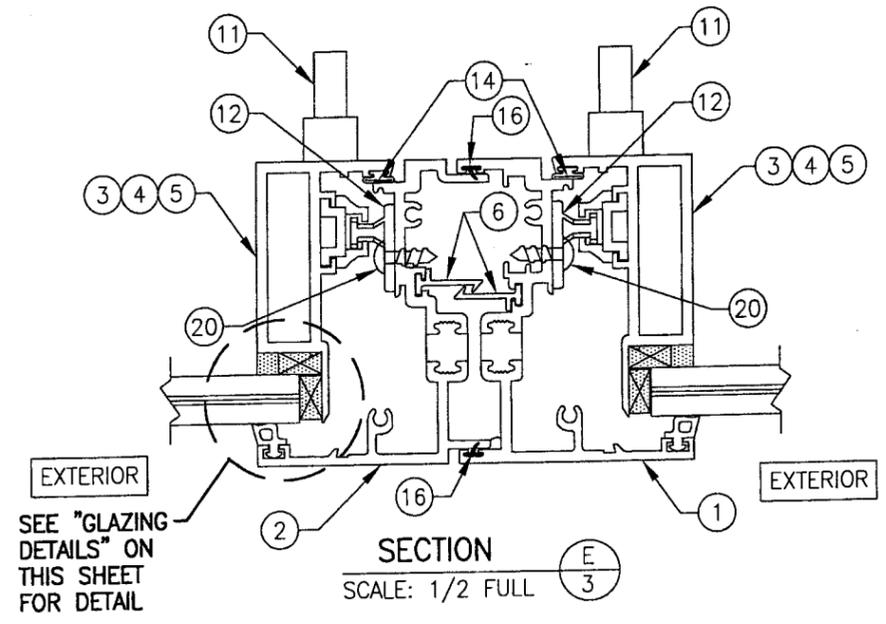
(TYP. SHEAR SCREW MOUNT OPTION; APPLICABLE AT HINGE SIDE ONLY)



**OPTIONAL MOUNT DETAIL:
DIRECT MOUNT WITH SPACER**

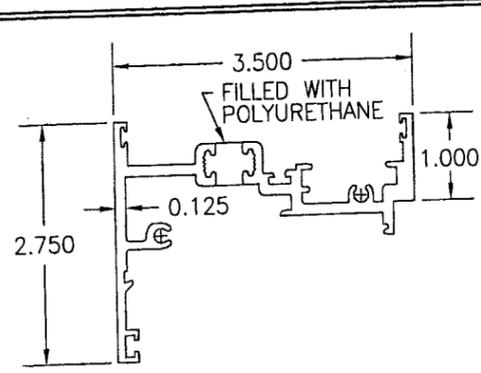
PRODUCT REVISED
as complying with the Florida
Building Code
Approved No. **05-0915.04**
Expiration Date **APRIL 25, 2007**

By *Manuel Jerez*
Miami Made Product Control
Division

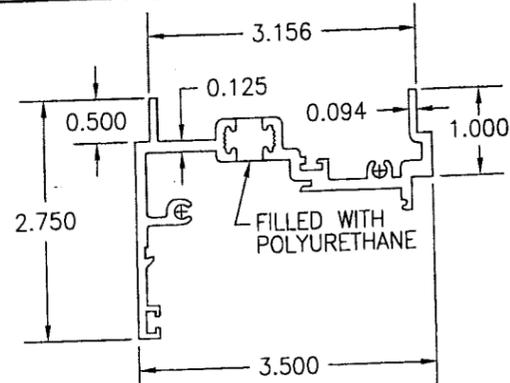


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0915.04
Expiration Date APRIL 25, 2007
By: *Manuel Perry*
Military/State Product Control
Division

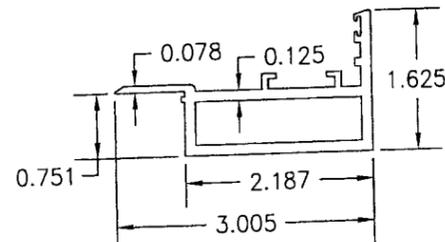
DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/14/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)	
MANUFACTURER WAUSAU WINDOW & WALL SYSTEMS 1415 WEST STREET WAUSAU, WI. 54402-1746 715-845-2161	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION AUG 10 2005	P.E. WARREN W. SCHAEFER P.E. NO. 44133
DRAWING NO. 1086	REV. A
SHEET NO. 3 OF 4	



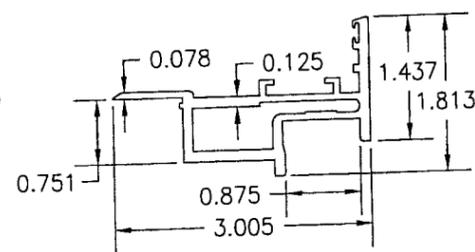
① MAIN FRAME JAMB



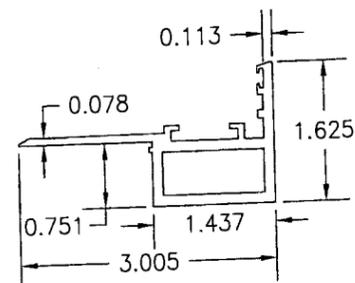
② MULLION FRAME JAMB



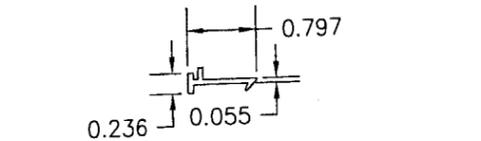
③ SASH



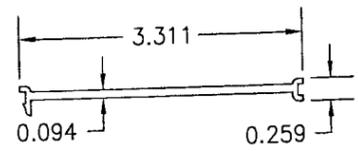
④ SASH



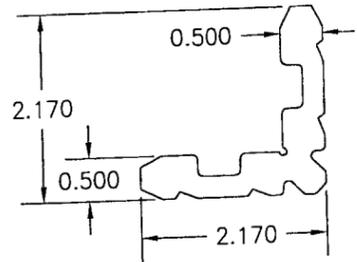
⑤ SASH



⑥ EXPANSION CLIP 18" LONG

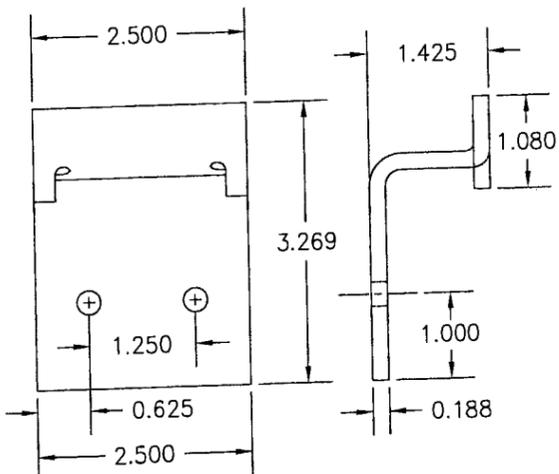


⑨ CAULK BACKER

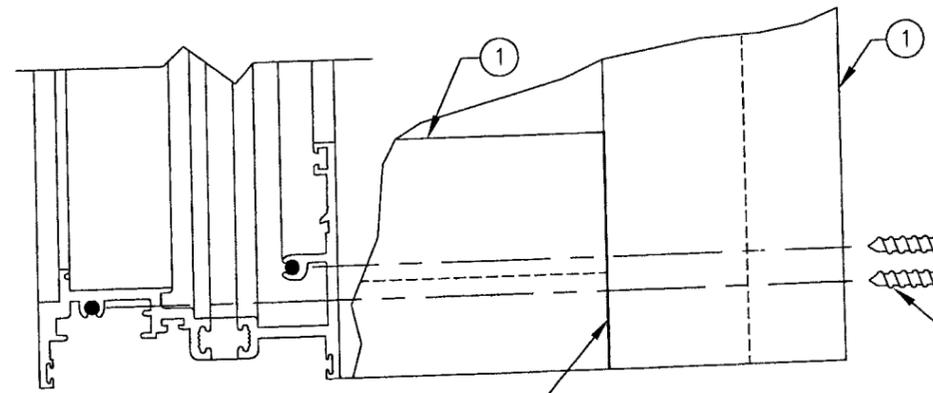


②1C ②1B ②1A CORNER KEY

21A = 1.94"
21B = 0.94"
21C = 1.19"

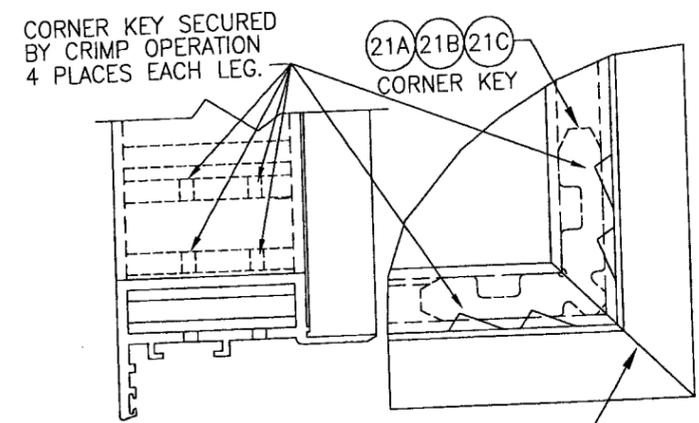


⑦ SLIDE-IN ANCHOR



SCHNEE-MOREHEAD SEALANT #SM5504
AT EXTERIOR PORTION OF JOINT
BETWEEN FRAME MEMBERS.

FRAME CORNER DETAIL
SCALE: 1/2 FULL, OUTSIDE VIEW



SASH CORNER DETAIL
SCALE: 1/2 FULL, OUTSIDE VIEW

SCHNEE-MOREHEAD SEALANT #SM5504
AT EXTERIOR PORTION OF JOINT
BETWEEN SASH MEMBERS.

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	313058	MAIN FRAME JAMB	6063-T6 ALUMINUM
2	313049	MULLION FRAME JAMB (MALE)	6063-T6 ALUMINUM
3	313045	SASH (USED WITH GLAZING OPTION 1)	6063-T6 ALUMINUM
4	313043	SASH (USED WITH GLAZING OPTION 2)	6063-T6 ALUMINUM
5	313041	SASH (USED WITH GLAZING OPTION 3)	6063-T6 ALUMINUM
6	907290	EXPANSION CLIP 18" LONG AT MULL MDSPAN	6063-T6 ALUMINUM
7	134790	SLIDE-IN ANCHOR	7 GA. ZINC PLATED STEEL
8	189582	WEEP HOLE BAFFLE	6063-T6 ALUMINUM
9	445	CAULK BACKER	PVC (FULL LENGTH OF JAMB)
HARDWARE			
10	101594	BUTT HINGE	6063-T6 ALUMINUM
11	106623	HANDLE AS REQ'D TO OPERATE LOCK SYSTEM	ALUMINUM
12	107110	3-POINT LOCK/STRIKE PACKAGE	MELRON; 304 S.S.
13	3V 100203	LIMIT OPENING DEVICE	ANDERBERG/FA-220SS 18-8 S.S.
SEALS & SEALANTS			
14	9989	BULB GASKET	ULTRA FAB; THERMO PLASTIC
15	6676	SOLID GLAZING GASKET	TREMCO; SILICONE
16	9680	WEATHER STRIP	CLIM-TECH.; RIGID PVC ALCRYN
FASTENERS			
17	-	#6 X 3/8" S.S. PH SMS	1 PER WEEP HOLE BAFFLE
18	-	#10-32 X 3/8" S.S. PH SCREW	3 PER HINGE INTO SASH
19	-	#10-32 X 5/8" S.S. PH SCREW	3 PER HINGE THROUGH JAMB
20	-	#10-32 X 5/8" S.S. PH SCREW	2 PER STRIKE INTO JAMB
21A	188411	SASH CORNER KEY (USE WITH SASH ITEM 3)	6063-T6 ALUMINUM
21B	188318	SASH CORNER KEY (USE WITH SASH ITEM 4)	6063-T6 ALUMINUM
21C	189192	SASH CORNER KEY (USE WITH SASH ITEM 5)	6063-T6 ALUMINUM
22	-	#10-32 X 3/8" S.S. PH SCREW	2 PER LIMIT DEVICE INTO FRAME
23	-	#10-32 X 5/8" S.S. PH SCREW	2 PER LIMIT DEVICE INTO SASH

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0915-04
Expiration Date APRIL 25, 2007
By: *Manuel Perez*
Micro Products Control
Division

DRAWN BY:	J.C.F.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	01/14/02
NO.		REVISION	
DESCRIPTION		DATE	
BY			

DRAWING TITLE
3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)

MANUFACTURER
WAUSAU WINDOW & WALL SYSTEMS
1415 WEST STREET
WAUSAU, WI. 54402-1746
715-845-2161

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
AUG 10 2005
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1086
SHEET NO. 4 OF 4