



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.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**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 – S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1087, titled "Series 3250 HP" Inswing Casement Window (Small Missile Impact), sheets 1 through 4, with revision "A", dated 01/18/2006, prepared by W. W. Schaefer Engineering & Consulting, P.A., 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: Small Missile Impact**

**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 # 05-0915.05 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 **Jaime D. Gascon, P.E.**



*J. Gascon*  
5/31/07

NOA No 07-0423.09  
Expiration Date: April 25, 2012  
Approval Date: June 21, 2007  
Page 1

Wausau Window and Wall Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1087**, titled "Series 3250 HP" Inswing Casement Window (Small Missile Impact), sheets 1 through 4, with revision "A", dated 01/18/2006, 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 202-94along 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. With addendum letter dated March 6, 2002, signed and sealed by Allen N. Reeves, P.E.  
*"Submitted under NOA# 05-0915.05"*

**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 E1300-98/ 02**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont de Nemours for "Dupont Butacite ® PVB, Interlayer" dated January 05, 2006, expiring on December 11, 2010.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia, Inc. for "Saflex III G Clear or Colored Interlayer" dated May 04, 2006, expiring on May 21, 2011.



Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No 07-0423.09  
Expiration Date: April 25, 2012  
Approval Date: June 21, 2007

Wausau Window and Wall Systems

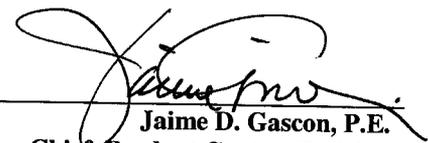
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of compliance issued by W. W. Schaefer Engineering & Consulting, P.A., dated August 10, 2005, signed and sealed by Warren W. Schaefer, P.E.  
*“Submitted under NOA# 05-0915.05”*
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.  
*“Submitted under NOA# 05-0915.05”*
3. Laboratory compliance letter for Test Report No. **ATI-06-30280.01**, dated January 28, 2002, signed and sealed by Allen N. Reeves, P.E.  
*“Submitted under NOA# 05-0915.05”*

**G. OTHER**

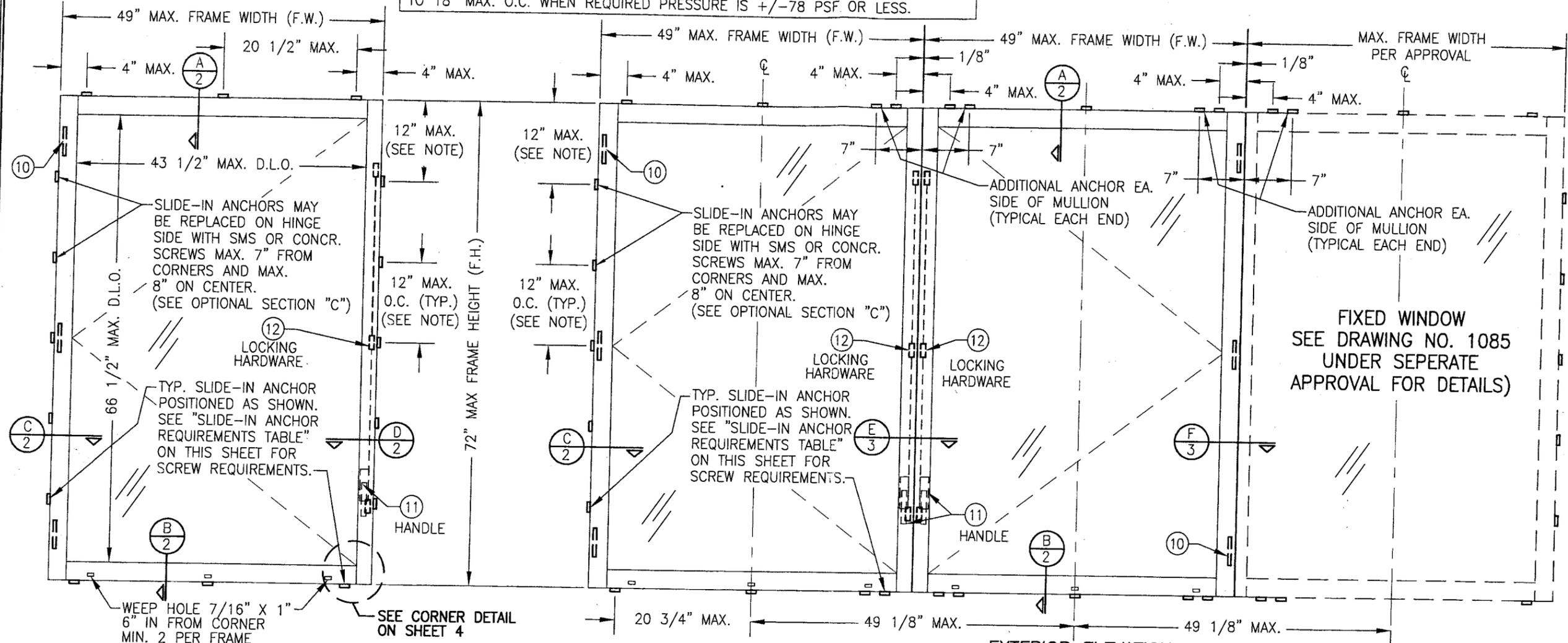
1. Laboratory revision letter for Test Report No. **ATI-06-30280.01**, dated March 06, 2002, signed and sealed by Allen N. Reeves, P.E.  
*“Submitted under NOA# 05-0915.05”*



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**Jaime D. Gascon, P.E.**  
**Chief, Product Control Division**  
**NOA No 07-0423.09**  
**Expiration Date: April 25, 2012**  
**Approval Date: June 21, 2007**

**SLIDE-IN ANCHOR SPACING NOTE:**  
 WHEN SLIDE-IN ANCHORS ARE USED, SIDE ANCHOR SPACING MAY BE INCREASED TO 18" MAX. O.C. WHEN REQUIRED PRESSURE IS +/-78 PSF OR LESS.



**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"

**GENERAL NOTES**

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOAD" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. 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 SMALL MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONES.
6. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
7. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
8. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
  - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
  - b) ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
  - c) ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 50 ksi.
  - d) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GA. Fy = 36 ksi.
9. THESE WINDOWS ARE SMALL MISSILE IMPACT RATED & MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.

**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.**

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" CONCRETE 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).

POSITIVE	NEGATIVE
100 PSF	120 PSF

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 07-0423.09  
 Expiration Date 04/25/2012  
 By *[Signature]*  
 Miami Code Product Control Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
DATE: 08/10/05	DATE: 01/25/02
BY: K.P.S.	K.P.S.
REVISION DESCRIPTION	NO.
1. UPDATE GENERAL NOTES TO 2004 CODE COMPLIANT	A1
2. REDUCED FRAME ANCHOR SPACING TO 12"	A2

**3250 HP INSWING CASEMENT WINDOW (SMALL MISSILE IMPACT)**

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

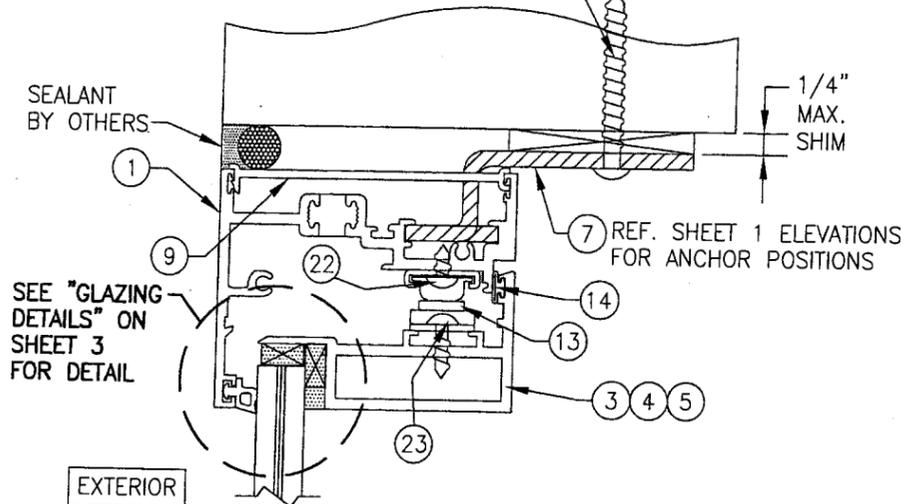
**CONSULTANTS**  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
 8895 N. MILITARY TRAIL, SUITE C-204  
 PALM BEACH GARDENS, FL 33410  
 PHONE: 561-775-4902 FAX: 561-775-4903

**CERTIFICATION**  
**MAY 30 2007**

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

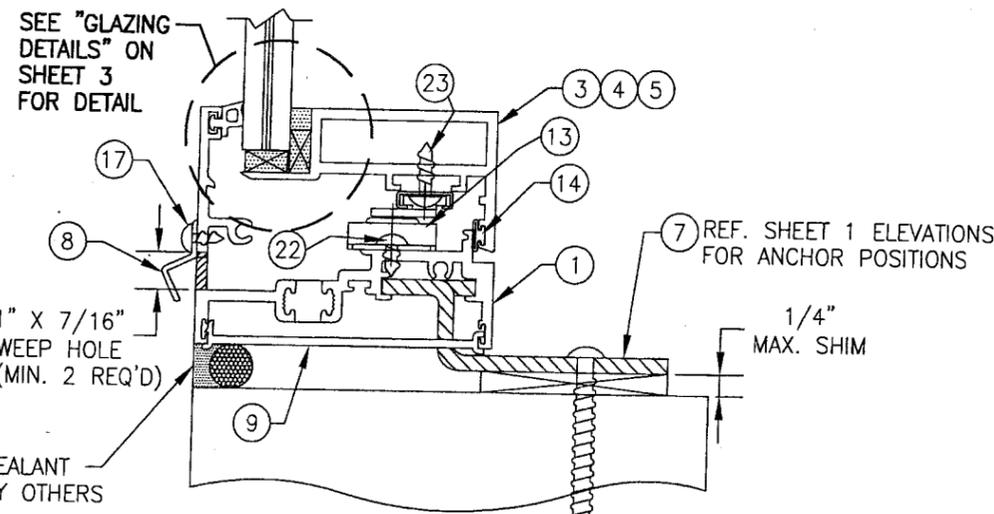
DRAWING NO.	REV.
1087	A
SHEET NO.	1 OF 4

ANCHOR FASTENERS (2 PER ANCHOR).  
SEE "SLIDE-IN ANCHOR FASTENER  
REQUIREMENTS TABLE" ON SHEET 1.



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 B  
SCALE: 1/2 FULL

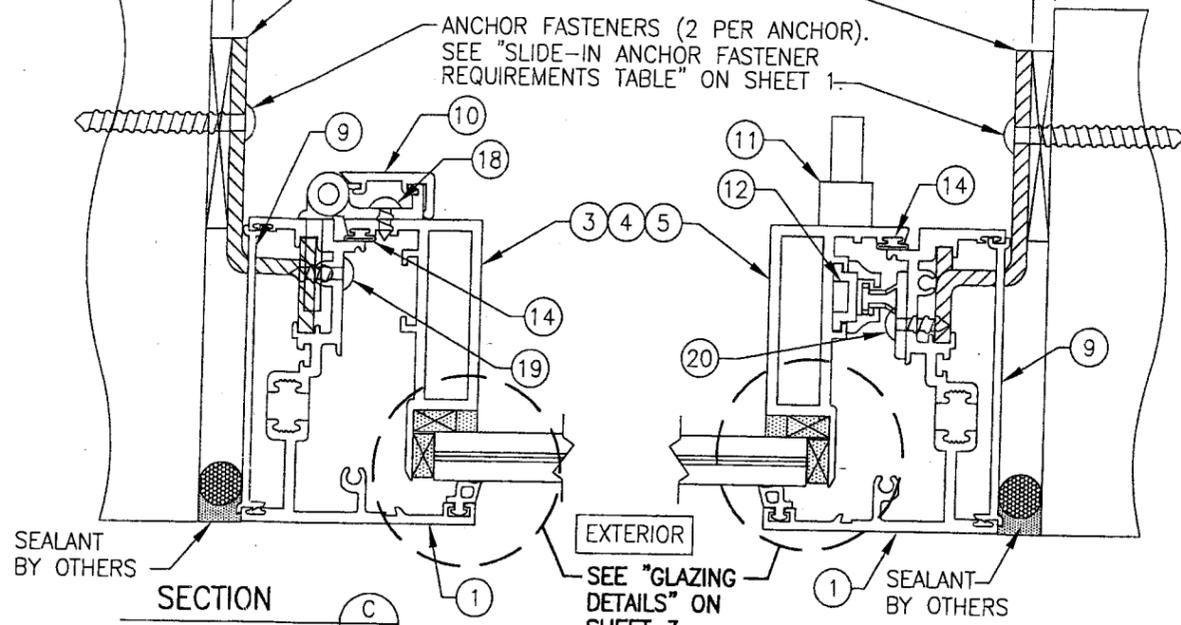
(TYP. FOR DIRECT MOUNT TO WOOD, METAL  
STUD, STEEL OR BLOCK/CONCRETE WITH  
SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS  
FOR SHEAR SCREW MOUNT AT HINGE SIDE  
AND DIRECT MOUNT WITH A SPACER.

1/4" MAX. SHIM

7 REF. SHEET 1 ELEVATIONS  
FOR ANCHOR POSITIONS

ANCHOR FASTENERS (2 PER ANCHOR).  
SEE "SLIDE-IN ANCHOR FASTENER  
REQUIREMENTS TABLE" ON SHEET 1.

1/4" MAX. SHIM



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.

SEALANT BY OTHERS

EXTERIOR

SEE "GLAZING  
DETAILS" ON  
SHEET 3  
FOR DETAIL

1 SEALANT  
BY OTHERS

SECTION D  
SCALE: 1/2 FULL

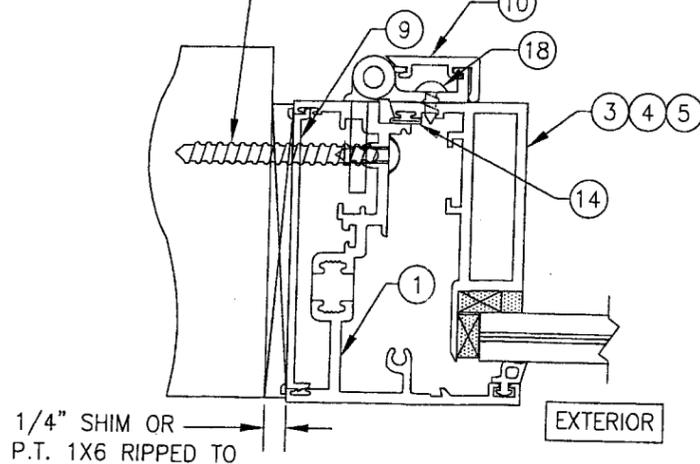
(TYP. FOR DIRECT MOUNT TO WOOD, METAL  
STUD, STEEL OR BLOCK/CONCRETE WITH  
SLIDE-IN ANCHORS. SEE OPTIONAL DETAILS  
FOR SHEAR SCREW MOUNT AT HINGE SIDE  
AND DIRECT MOUNT WITH A SPACER.

SMS OR CONCR. SCREW 7" MAX. FROM CORNERS  
& MAX. 8" O.C. (MAY BE INCREASED TO 12" O.C.  
IF WINDOW WIDTH IS 33" OR LESS OR IF REQUIRED  
DESIGN WIND PRESSURE IS 80 PSF OR LESS.

- \* WOOD OPENING: #14 SMS WITH MIN.  
1 1/4" BUCK EMBED
- \* MIN. 16 GA. STUD OR 12 GA. STRUCTURAL  
STEEL OPENING: #14 TEK WITH FULL EMBED
- \* BLOCK/CONCRETE OPENING: 1/4" CONCR.  
SCREW WITH MIN. EMBED OF 1 1/4"

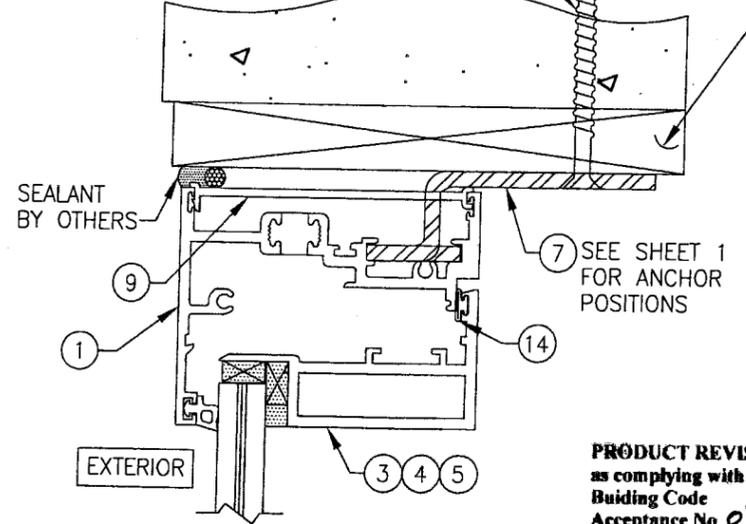
CONTINUOUS WOOD  
MEMBER LESS IN SIZE  
THAN A 2X BUCK TO  
BE MIN. FULL DEPTH  
OF JAMB & CLIP

1/4" CONCR. SCREWS (2 PER ANCHOR).  
SEE "SLIDE-IN ANCHOR FASTENER  
REQUIREMENTS TABLE" ON SHEET 1.



OPTIONAL SECTION C  
SCALE: 1/2 FULL

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



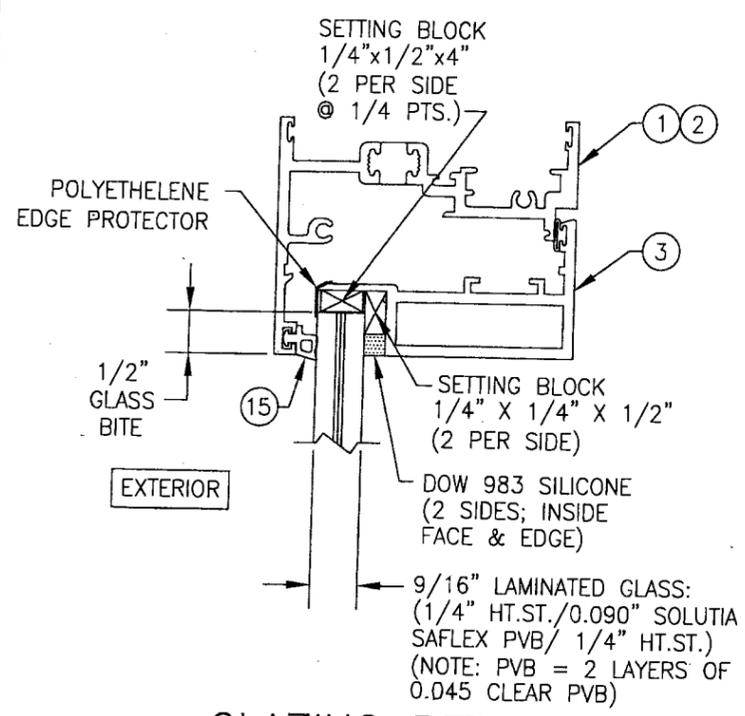
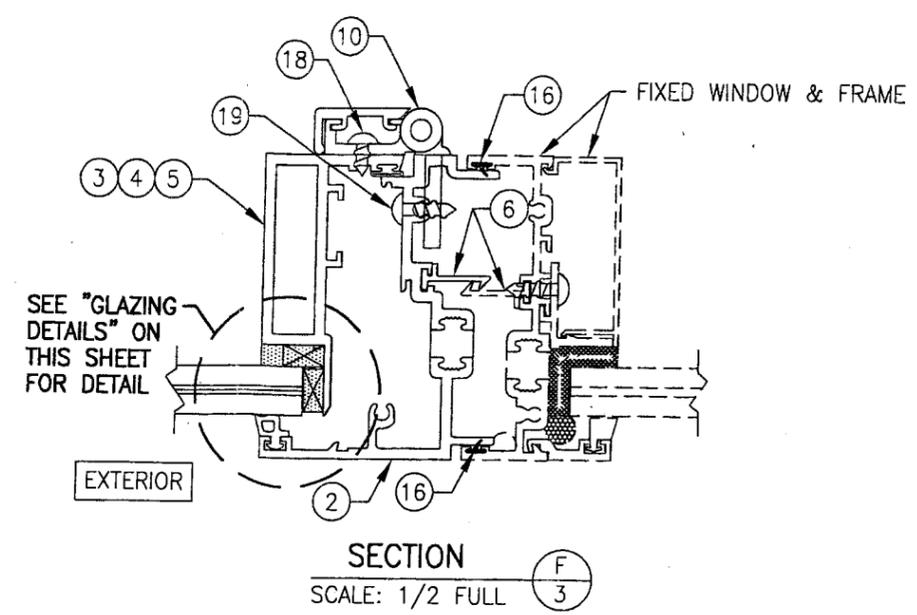
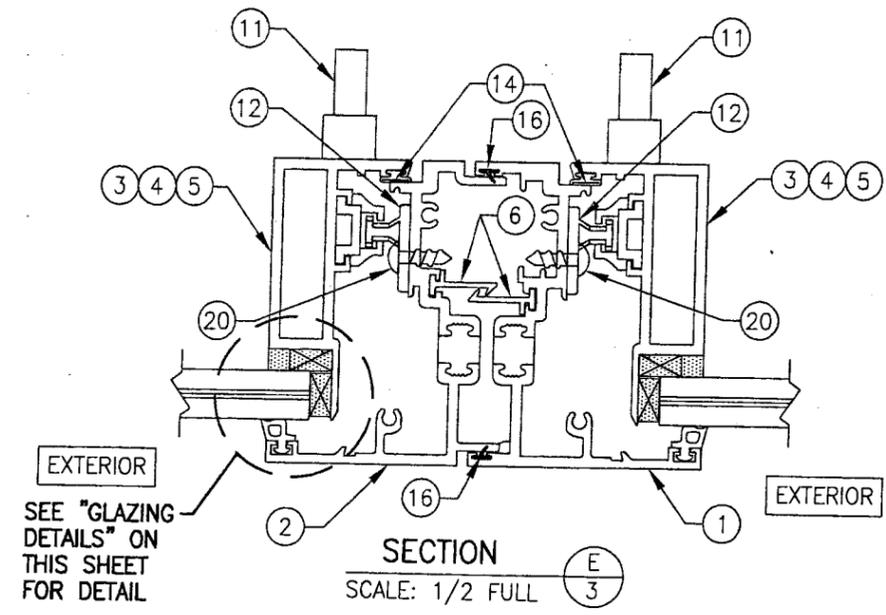
OPTIONAL MOUNT DETAIL:  
DIRECT MOUNT WITH SPACER

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 07-0423.09  
Expiration Date 09/25/2012

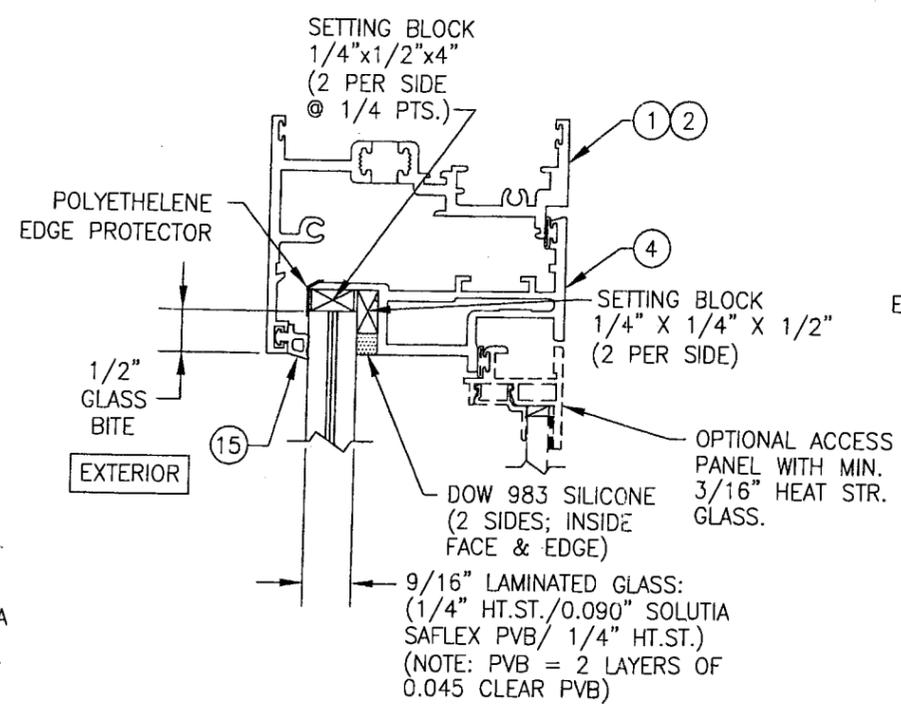
By *[Signature]*  
Miami Dade Product Control  
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/25/02
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 3250 HP INSWING CASEMENT WINDOW (SMALL MISSILE IMPACT)	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER WAUSAU WINDOW & WALL SYSTEMS 1415 WEST STREET WAUSAU, WI. 54402-1746 715-845-2161
CERTIFICATION MAY 30 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1087	REV. A
SHEET NO. 2 OF 4	

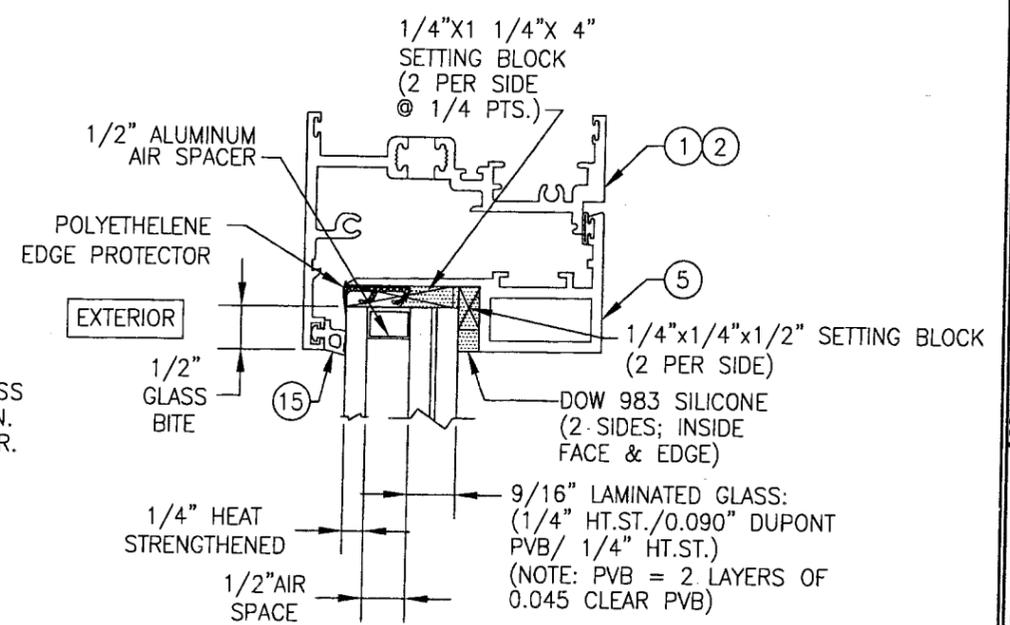
DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/25/02
NO.	REVISION DESCRIPTION
DATE	BY



**GLAZING DETAIL (OPTION 1)**



**GLAZING DETAIL (OPTION 2)**



**GLAZING DETAIL (OPTION 3)**

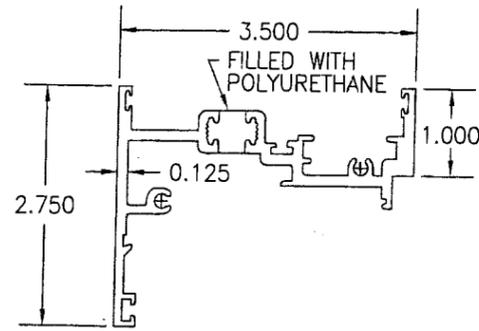
PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 07-0423.09  
 Expiration Date 04/25/2012  
 By *[Signature]*  
 Miami Dade Product Control Division

DRAWING TITLE: 3250 HP INSWING CASEMENT WINDOW (SMALL MISSILE IMPACT)

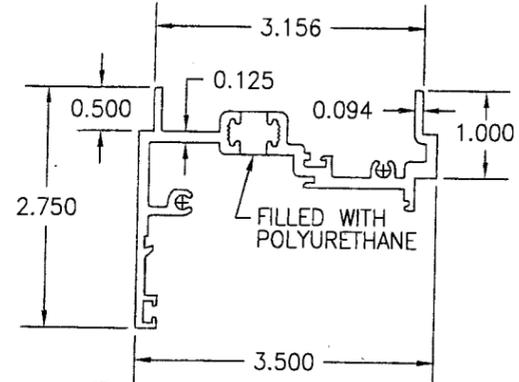
MANUFACTURER: WAUSAU WINDOW & WALL SYSTEMS  
 1415 WEST STREET  
 WAUSAU, WI. 54402-1746  
 715-845-2161

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

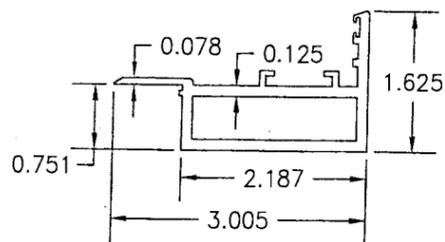
CERTIFICATION MAY 30 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1087	REV. A
SHEET NO. 3	OF 4



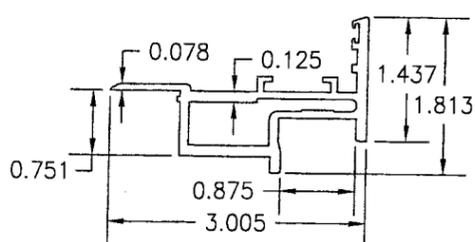
① MAIN FRAME JAMB



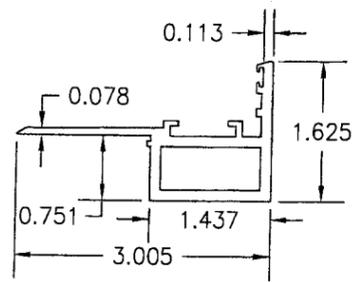
② MULLION FRAME JAMB



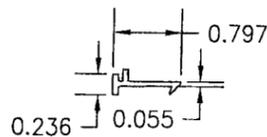
③ SASH



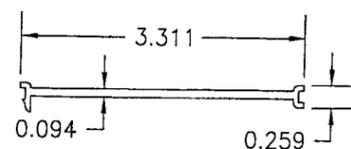
④ SASH



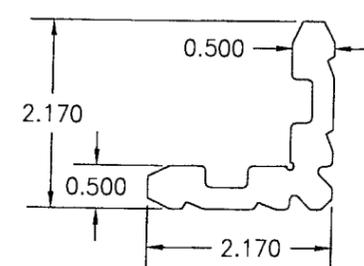
⑤ SASH



⑥ EXPANSION CLIP 18" LONG

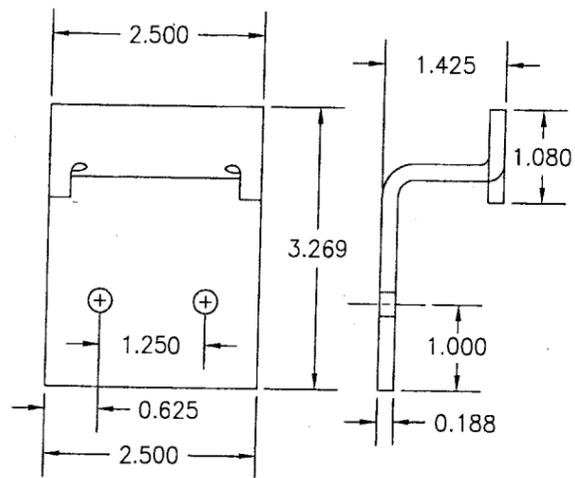


⑨ CAULK BACKER

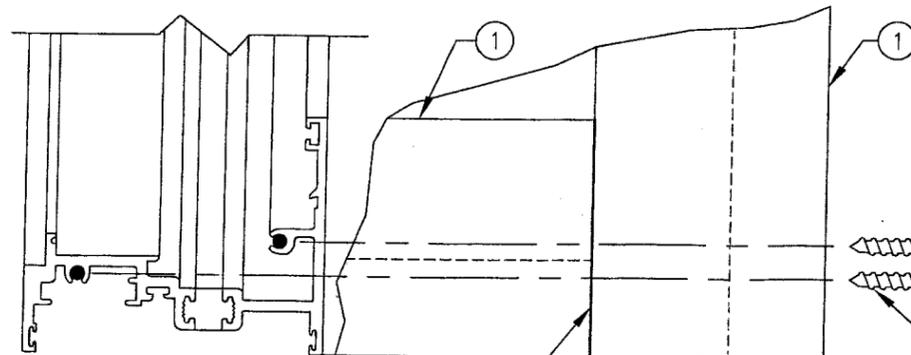


②1C ②1B ②1A CORNER KEY

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



⑦ SLIDE-IN ANCHOR

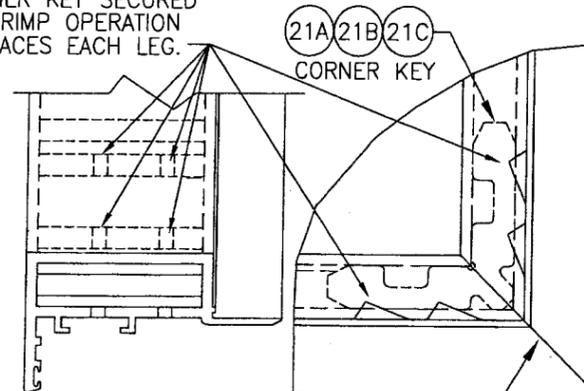


SCHNEE-MOREHEAD SEALANT #SM5504  
AT EXTERIOR PORTION OF JOINT  
BETWEEN FRAME MEMBERS.

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

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

CORNER KEY SECURED  
BY CRIMP OPERATION  
4 PLACES EACH LEG.



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

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

#10-14 X 1 1/2" S.S. PH SMS  
INTO FRAME SCREW SPLINES  
(2 PER FRAME CORNER)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 07-0423.09  
Expiration Date 04/25/2012  
By *Warren W. Schaefer*  
Miami Dade Product Control  
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/25/02
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>3250 HP INSWING CASEMENT WINDOW (SMALL MISSILE IMPACT)</b>	
MANUFACTURER <b>WAUSAU WINDOW &amp; WALL SYSTEMS</b> 1415 WEST STREET WAUSAU, WI. 54402-1746 715-845-2161	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION MAY 30 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1087	REV. A
SHEET NO. 4	OF 4