

NOTICE OF ACCEPTANCE (NOA)www.miamidade.gov/building/home/asp**Oldcastle BuildingEnvelope™****803 Airport Road
Terrell, TX 75160****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 "RW-5100 Ribbon" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **RW-5100LM**, titled "Product Approval Drawings - RW-5100 Ribbon Window System – Large Missile Impact", sheets 1 through 7 of 7, dated 08/27/10, prepared by manufacturer, signed and sealed by William D. Cook, 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 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** NOA # **08-1015.11** 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.**



A handwritten signature in black ink, appearing to be "MP".

NOA No. 10-1102.06
Expiration Date: October 30, 2013
Approval Date: March 10, 2011

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **RW-5100LM**, Sheets 1 through 7 of 7, titled "Product Approval Drawings - RW-5100 Ribbon Window System – Large Missile Impact", dated 08/27/10, prepared by manufacturer, signed and sealed by William D. Cook, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum ribbon window system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL 0105-0210-04, Specimen #2**, dated 2/09/04, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA #08-1015.13)
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum ribbon window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL 0105-0815-02, Specimen #2**, dated 8/20/02, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA #04-0504.07)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum ribbon window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL 0105-0815-02, Specimen #3**, dated 8/20/02, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA #04-0504.07)
4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum ribbon window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL 0105-0815-02, Specimen #4**, dated 8/21/02, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA #04-0504.07)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 10-1102.06

Expiration Date: October 30, 2013
Approval Date: March 10, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. 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
along with marked-up drawings and installation diagram of an aluminum ribbon window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL 0105-0619-02**, dated 6/24/02, signed and sealed by Vinu J. Abraham, P.E. *(Submitted under previous NOA #04-0504.07)*

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 10/01/08 ,01/20/09 and 01/18/11, prepared, signed and sealed by William D. Cook, P.E.
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

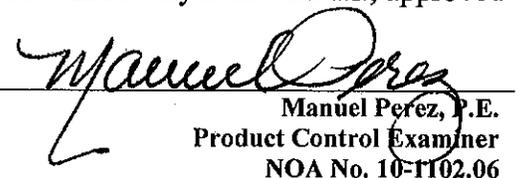
1. Notice of Acceptance No. **08-0520.08** issued to **Solutia, Inc.** for their "**Vanceva Composites Glass Interlayer**" dated 07/17/08, expiring on 12/11/13.
2. Notice of Acceptance No. **07-1116.11** issued to **Saf-Glas, LLC** for their "**SAF-GLAS Polycarbonate Laminate**", dated 12/27/07, expiring on 12/16/12.

F. STATEMENTS

1. Statement letter of conformance, dated January 18, 2011, signed and sealed by William D. Cook, P.E.
2. Statement letter of no financial interest, dated January 20, 2008, signed and sealed by William D. Cook, P.E.
3. Laboratory compliance letter for Test Reports No. **HTL-0105-0619-02** and **HTL-0105-0815-02**, issued by Hurricane Test Laboratory, LLC, dated March 21, 2003, signed and sealed by Vinu J. Abraham, P.E.

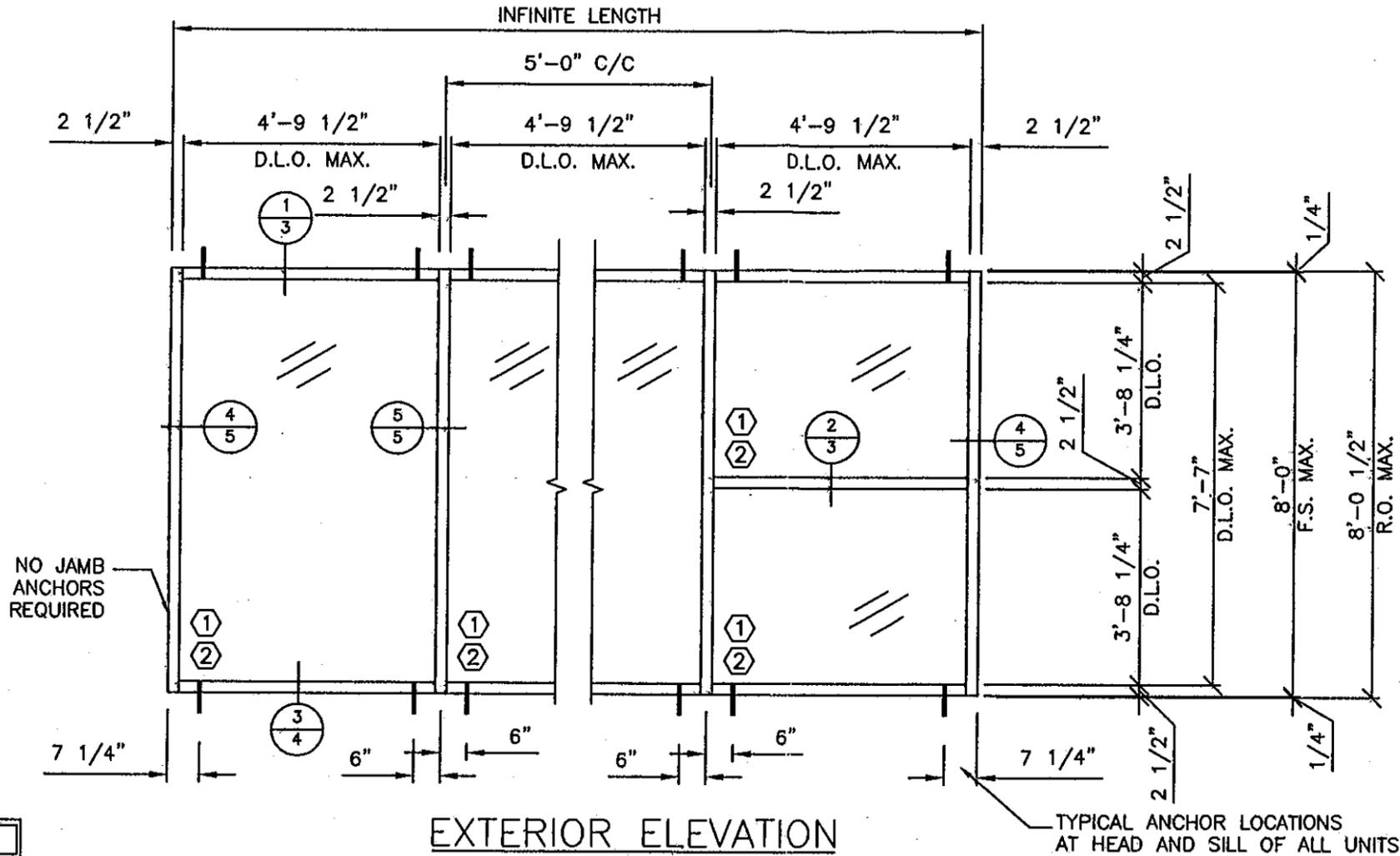
G. OTHER

1. Notice of Acceptance No. **08-1015.11**, issued to Vistawall Architectural Products for their Series "RW-5100 Ribbon" Aluminum Fixed Window System – L.M.I., approved on 02/18/09 and expiring on 10/30/13.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-T102.06

Expiration Date: October 30, 2013
Approval Date: March 10, 2011

TYPICAL ANCHOR LOCATIONS
AT HEAD AND SILL OF ALL UNITS
(SEE ANCHOR SCHEDULE SHEET 4)



EXTERIOR ELEVATION

TYPICAL ANCHOR LOCATIONS
AT HEAD AND SILL OF ALL UNITS

TABLE 1.

DESIGN PRESSURE	
+70 psf (15psf WATER)	POSITIVE
-80 psf	NEGATIVE

GLASS SCHEDULE (LARGE MISSILE IMPACT)

MANUFACTURER	DESCRIPTION	GASKETS
① SECURITY IMPACT GLASS	INSULATED - LAMINATED GLASS: 1/4" H.S., 1/2" AIRSPACE, 1/4" H.S. GLASS AT INNER AND OUTER FACES .070" POLYCARBONATE. .015" POLYURETHANE LAMINATE	FG-5126 INT FG-5158 EXT
② OLDCASTLE STORMGLASS	INSULATED - LAMINATED GLASS: 1/4" H.S., 1/2" AIRSPACE, 1/4" H.S. GLASS AT INNER AND OUTER FACES, .075" VANCEVA INTERLAYER	FG-5126 INT FG-5158 EXT

NOTE:
REFER TO SHEET 4 FOR GLAZING DETAILS

BROMLEY COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
8440 NW 33rd Avenue, Suite 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4824 FAX: (954) 772-4634

STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM W. COOK, P.E., SECB
FLA P.E. # 48904113 FLA S.I. # 2008

SEP 2 2010

FOR MIAMI-DADE CO. B.C.C.O.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 10-1102.06
Expiration Date OCT 30, 2013

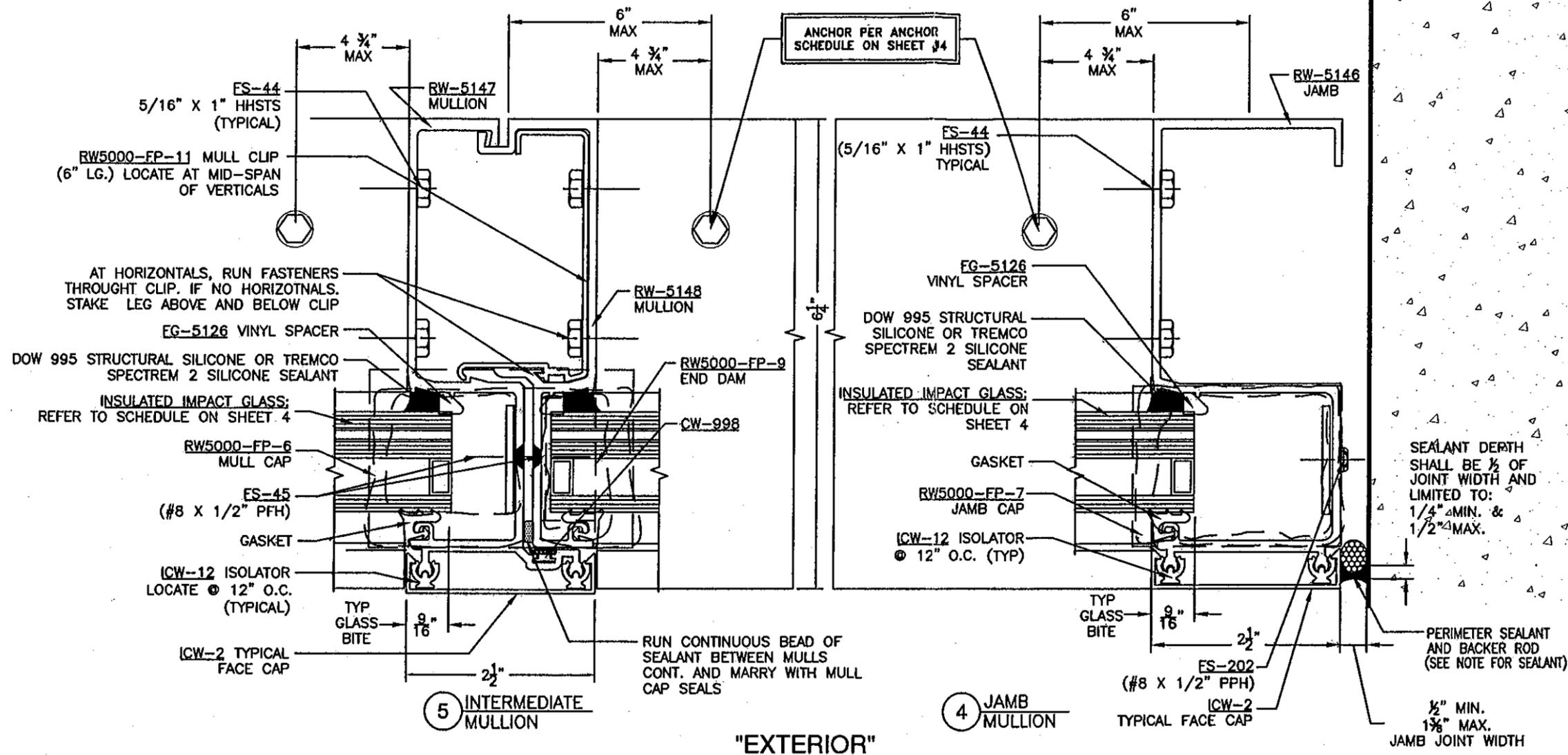
By *Manuel Perez*
Miami Dade Product Control

PROJECT APPROVAL DRAWINGS
RW-5100 RIBBON WINDOW SYSTEM
LARGE MISSILE IMPACT

PROJECT NO.
DRAWN BY GRG DATE 8/27/10
SCALE NOTED
DRAWING NO. RW-5100LM
SHEET 2 OF 7

Oldcastle BuildingEnvelope™
803 AIRPORT RD. TERRELL TX 75160
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MANUAL COMP	REV BY	DATE	DESCRIPTION



SEALANT DEPTH SHALL BE 1/2 OF JOINT WIDTH AND LIMITED TO:
 1/4" MIN. & 1/2" MAX.

PERIMETER SEALANT AND BACKER ROD (SEE NOTE FOR SEALANT)
 1/2" MIN. 1 3/8" MAX. JAMB JOINT WIDTH

SEE SHEET 6 FOR ADDITIONAL MULL CAP INSTALLATION INFORMATION

GLAZING NOTE: REFERENCE SHEET 4 FOR GLASS SCHEDULE AND GLAZING DETAILS.

JAMB SEALANT NOTES:
PERIMETER SEALANT OPTIONS:
 DOW 795 (SILICONE), TREMCO SPECTREM 2 & 3 (SILICONE) TREMCO DYMONIC FC (URETHANE) SONNEBORN SOLOLASTIC 150 (ELASTOMERIC)
ALTERNATE SEALANTS & ALTERNATE JAMB GAPS:
 TO BE APPROVED BY DESIGN PROFESSIONAL OF RECORD AND SEALANT MANUFACTURER.

BROMLEY COOK ENGINEERING, INC.
 STRUCTURAL ENGINEERING SERVICES
 5440 NW 33rd Avenue - Suite 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624 FAX: (954) 972-4624
 WILLIAM D. COOK, P.E., SECB
 FLA P.E. # 43904 - FLA S.I. # 2008

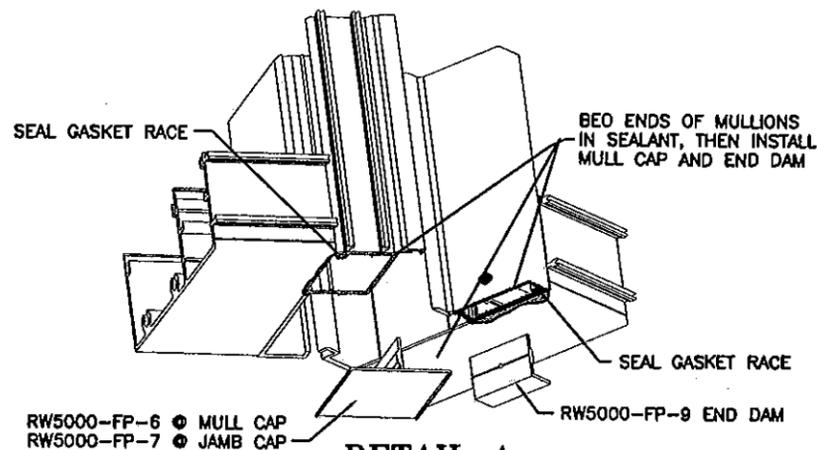
FOR MIAMI-DADE CO. B.C.C.O.
 PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 10-1102-06
 Expiration Date OCT 30, 2013
 By *William D. Cook*
 Miami Trade Product Control

PROJECT	PRODUCT APPROVAL DRAWINGS
PROJECT NO.	RW-5100 RIBBON WINDOW SYSTEM
DRAWN	DATE
GRG	8/27/10
SCALE	NOTED
DRAWING NO.	RW-5100LM
SHEET	5 OF 7

Oldcastle BuildingEnvelope
 803 AIRPORT RD. TERRELL TX 75160
 (972) 551-6100

MANUAL COMP	REV BY	DATE	DESCRIPTION

RW-5100 MULL CAP SEALANT DETAILS AND INSTALLATION INSTRUCTIONS



RW5000-FP-6 ● MULL CAP
RW5000-FP-7 ● JAMB CAP

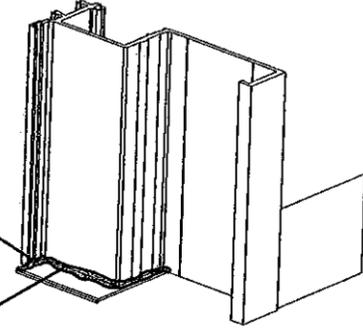
DETAIL A

MULL CAP & END DAMS
REQUIRED AT HEAD AND SILL
TYPICAL (SILL SHOWN)

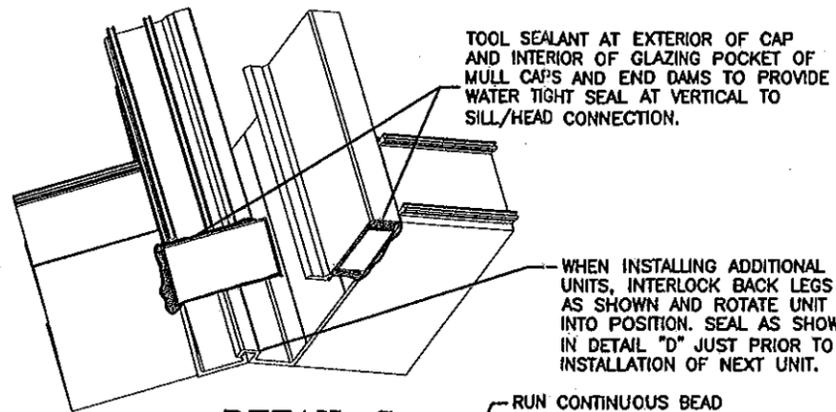
INSTALL MULL CAPS AND END
DAMS USING FS-45 (#8 X
1/2" PPH).
INSTALL JAMB CAPS USING
FS-202
(#8 X 1/2" PPH).
(CAP SEAL ALL FASTENERS)

TOOL THE SEALANT ALONG INTERIOR
OF THE MULL DURING INSTALLATION
OF THE MULL CAP.

WHEN INSTALLING THE RW5000-FP-6
MULL CAP, KEEP THIS AREA CLEAR
OF SEALANT TO ALLOW FOR
INSTALLATION OF NEXT UNIT.



DETAIL B

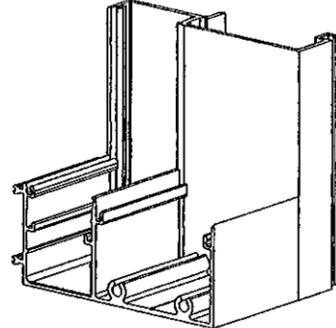


DETAIL C

TOOL SEALANT AT EXTERIOR OF CAP
AND INTERIOR OF GLAZING POCKET OF
MULL CAP'S AND END DAMS TO PROVIDE
WATER TIGHT SEAL AT VERTICAL TO
SILL/HEAD CONNECTION.

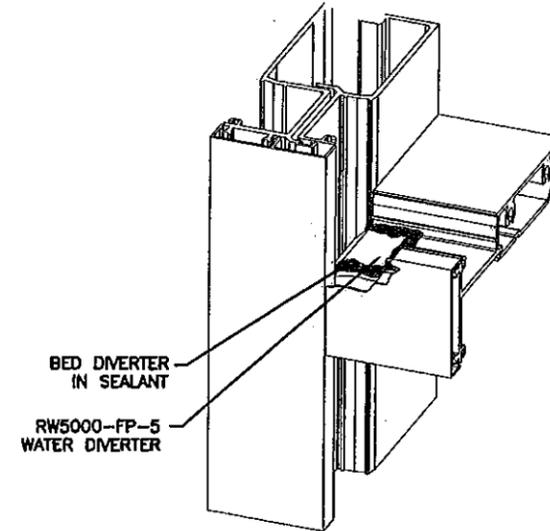
WHEN INSTALLING ADDITIONAL
UNITS, INTERLOCK BACK LEGS
AS SHOWN AND ROTATE UNIT
INTO POSITION. SEAL AS SHOWN
IN DETAIL "D" JUST PRIOR TO
INSTALLATION OF NEXT UNIT.

RUN CONTINUOUS BEAD
OF SEALANT AND MARRY
WITH SEALS AT MULL CAPS
JUST PRIOR TO INSTALLATION OF
NEXT UNIT.



DETAIL D

BED TOP OF MULL CAP
WITH SEALANT JUST PRIOR
TO INSTALLING NEXT UNIT.



WATER DIVERTER SEALANT DETAIL
LOCATE AT EACH END OF INTERMEDIATE HORIZONTALS

INSTALLATION NOTES:

- ASSEMBLE UNITS AS SHOWN ON DETAIL SHEETS 3 THRU 5.
INSTALL SEALANT TAPE BETWEEN VERTICALS AND HORIZONTALS AS SHOWN.
- INSTALL AND SEAL MULL CAPS AS SHOWN IN DETAILS A, B & C ABOVE.
- MULL CAPS SHOULD FORM A WATER TIGHT SEAL. A TEST MAY BE CONDUCTED TO CONFIRM THIS SEAL BY BLOCKING WEEP HOLES AND FILLING SILL CAVITY WITH WATER. AFTER TEST REMOVE PLUGS FROM WEEP HOLES, DRAIN WATER, INSTALL BAFFLES AND BAFFLE RETAINERS.
- INSTALL FIRST UNIT INTO OPENING
(UNITS WILL INSTALL FROM LEFT TO RIGHT AS VIEWED FROM EXTERIOR OF BUILDING),
LEVEL, PLUMB AND ANCHOR FIRST UNIT. WHEN SHIMMING UNITS, SHIM AT ANCHOR
POINTS UNDER SILL. DO NOT PLACE SHIMS BENEATH MULL OR MULL CAP.
- RUN BEAD OF SEALANT CONTINUOUS FOR FULL HEIGHT OF MULLION AND BED MULL CAP WITH
SEALANT AT HEAD AND SILL AS SHOWN IN DETAIL D.
- INSTALL SECOND UNIT BY BRINGING INTO POSITION FROM INSIDE OF BUILDING, TILT HEAD OF UNIT
BENEATH MULL CAP, ROTATE SILL OF UNIT OVER LOWER MULL CAP, THEN INTERLOCK BACK LEGS OF
MULLION (SEE DETAIL C), PLACE APPROPRIATE SHIMS BENEATH SILL MEMBER TO ALLOW FOR
BETTER ALIGNMENT, AND ROTATE UNIT INTO PLACE. PLUMB AND ANCHOR.
- REPEAT STEP 6 FOR ALL ADDITIONAL UNITS. MINIMUM 1/4" CAULK JOINT AT JAMB IS REQUIRED
FOR INSTALLATION OF FINAL UNIT.

- SYSTEM MAY BE INSTALLED EITHER IN UN-GLAZED OR PREGLAZED FRAMES. WHEN INSTALLING
UNITS AS UN-GLAZED FRAMES FOLLOW INSTRUCTIONS 4 THRU 8 AND THEN INSTALL GLASS,
NEXT PLACE AN 1/8" SHIM AT MID-HEIGHT OF MULL AND CLAMP BACK OF MULL AT THE SHIM
BEFORE RUNNING WEDGE TO HELP INSURE PROPER ALIGNMENT OF MULLS AT FACE OF SYSTEM.
WHEN PREGLAZING FRAMES, MAKE SURE THAT UNITS ARE SQUARE AND THAT DAY LIGHT
OPENINGS ARE HELD TO PROPER DIMENSIONS
BEFORE RUNNING STRUCTURAL SILICONE. (REFERENCE SILICONE MANUFACTURER FOR PROPER
CLEANING AND USE OF SILICONE.)



FOR MIAMI-DADE CO. B.C.C.O.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 10-1102.06
Expiration Date 09.30.2013
By *Manuel Perez*
Miami Dade Product Control

PROJECT NO.	
DRAWN	DATE
GRG	8/27/10
SCALE	NOTED
DRAWING NO.	RW-5100LM
SHEET	6 OF 7

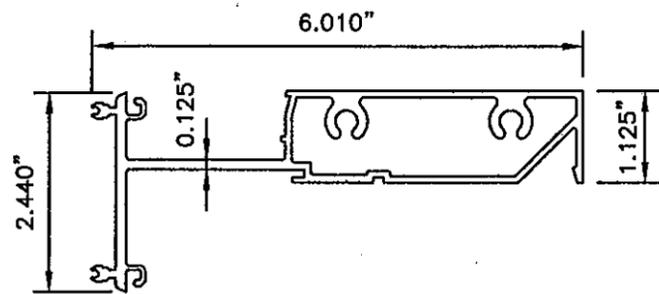
Oldcastle
BuildingEnvelope™



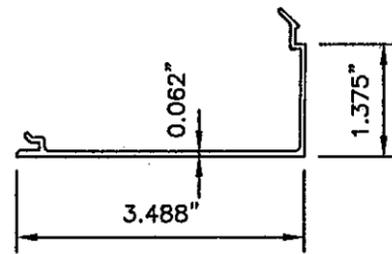
803 AIRPORT RD. TERRELL TX 75160
(972) 551-6100

PROJECT
PRODUCT APPROVAL DRAWINGS
RW-5100 RIBBON WINDOW SYSTEM
LARGE MISSILE IMPACT

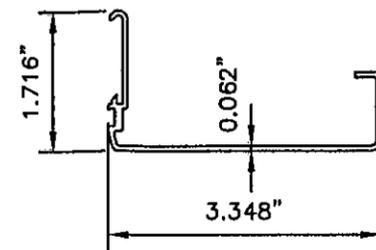
MANUAL COMP	REV	BY	DATE	DESCRIPTION



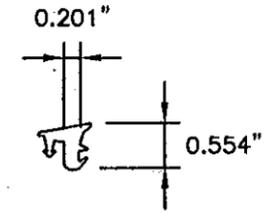
RW-5150 HORIZONTAL



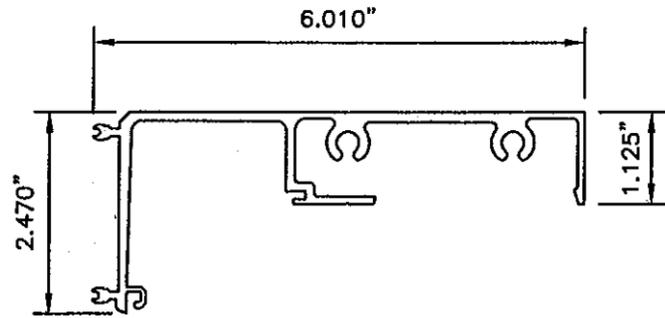
RW-5135 TRIM



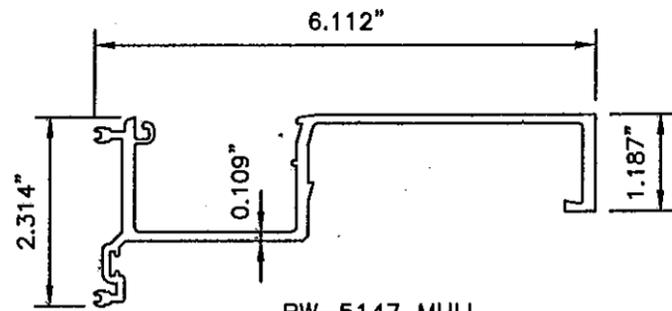
RW5000-FP-11 MULL CLIP



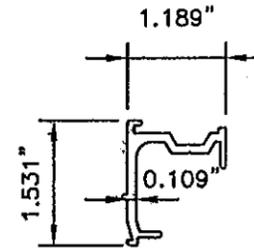
FG-5158 GASKET



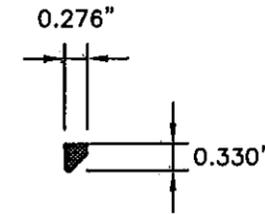
RW-5149 HEAD



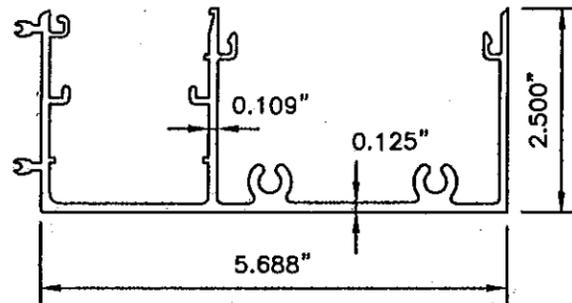
RW-5147 MULL



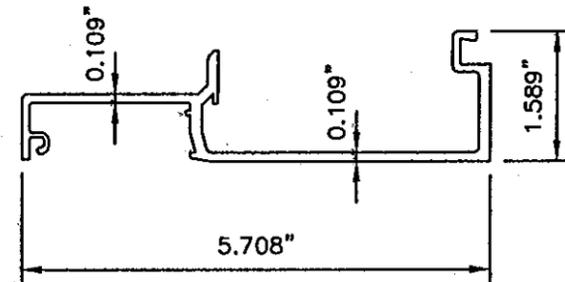
RW-5134 GLAZING BEAD



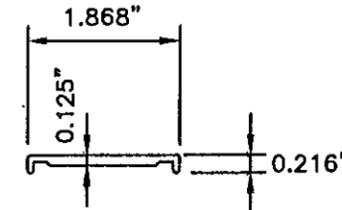
FG-5126 SPACER



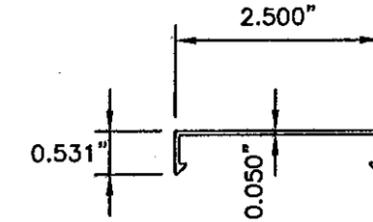
RW-5151 SILL



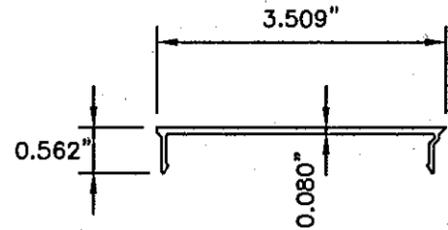
RW-5148 MULL



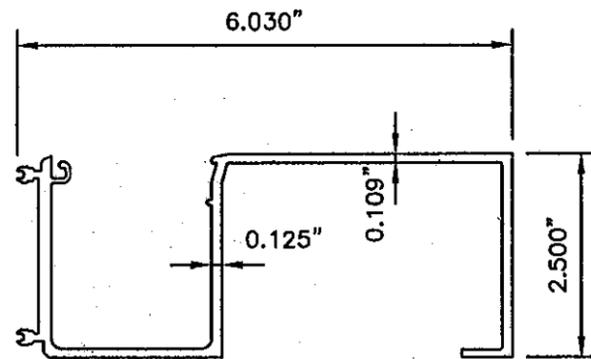
FG-5152 SETTING CHAIR
LOCATE AT SETTING BLOCKS AND MID-LITE



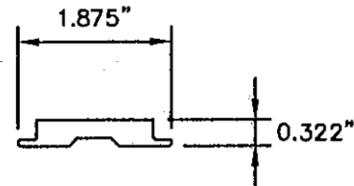
ICW-2
FACE CAP



RW-5140
SILL FILLER



RW-5146
JAMB



FG-5159 SETTING BLOCK

BROMLEY COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 NW 33rd Avenue - Suite 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624 FAX: (954) 772-4634

WILLIAM D. COOK, P.E., SECB
FLA P.E. # 43904 - FLA S.I. # 2008

FOR MIAMI-DADE CO. B.C.C.O.

PRODUCT REVISED
as complying with the Florida
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Miami Dade Product Control

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803 AIRPORT RD. TERRELL TX 75160
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PROJECT APPROVAL DRAWINGS
RW-5100 RIBBON WINDOW SYSTEM
LARGE MISSILE IMPACT

PROJECT NO. _____
DRAWN BY GRG DATE 8/27/10
SCALE NOTED
DRAWING NO. RW-5100LM
SHEET 7 OF 7