

**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)**

**Bonsal American.  
8201 Arrowridge Blvd.  
Charlotte, NC 28244**

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Exterior Insulation and Finish Systems**

**APPROVAL DOCUMENT:** Drawing No. 9937A, titled "Surewall Flex AOS System", sheets 1 through 2 of 2, prepared by Bonsal American, dated 11/09/99 with no revisions, signed and sealed by Lawrence F. Brill, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large Missile Impact**

**LABELING:** Each component package 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 renews NOA # 00-0118.09 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Candido F. Font, P.E.**

  
8/7/3



**NOA No 03-0407.02  
Expiration Date: May 19, 2008  
Approval Date: August 7, 2003  
Page 1**

**Bonsal American.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A DRAWING**

1. Drawing prepared by Brill & Rodriguez, Inc. titled "Surewall Flex AOS System", drawing No. 9937A, Sheets A1 & A2, dated 11/09/99, with no revisions, signed and sealed by L. F. Brill, PE. on 12/02/99.

**B TEST**

- 1 Test report on Large Missile Impact & Cyclic Wind Pressure Test per PA 201 & 203, of "Surewall Flex with Gypsum", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 99-838 dated 12/14/99, signed and sealed by H. M. Medina, PE.
- 2 Test report on Uniform Static Air Pressure Test per PA 202, of "Surewall Flex with Gypsum", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 99-839, dated 12/14/99, signed and sealed by H. M. Medina, PE.
- 3 Surface Burning Characteristic Test Report per ASTM E84 on "Exterior Insulation & Finish System" by Southwest Research Institute, report No. 01-6739-052, dated 02/15/95 signed by H. W. Stacy, PE.
- 4 Fire Resistance Evaluation Test Report per ASTM E108 on "W. R. Bonsal Surewall Flex EIFS" by Southwest Research Institute, report No. 01-6867-00, dated 01/26/95 signed by C. C. Bailey.
- 5 Ignibility Characteristics Test Report per BOCA National Codes, 1993 Edition, Section 1604.2 on "Surewall Flex EIFS over EPS" by Southwest Research Institute, report No. 01-6867-002a, dated 01/25/95, signed by C. C. Bailey.
- 6 Adhesion Test Report per ASTM D4541 on "Surewall" by United States Testing Company, Inc. report No. 400419, dated 03/10/94, signed by J. Kwiatkowski.

**C CALCULATIONS.**

- 1 Calculations for anchoring method resisting wind load in accordance with ASCEI, prepared by Brill & Rodriguez, Inc., sheets 1 to 5, signed and sealed by L. F. Brill, PE.

**D MATERIAL CERTIFICATION**

1. Test report on Tensile Test per ASTM E8 of "wall panel supporting channel", prepared by Hurricane Engineering & Testing, Inc. report no. HETI 99-T205, dated 10/15/99 signed and sealed by H. M. Medina PE.

**E STATEMENTS.**

- 1 Code compliance letter issued by Lawrence F. Brill. on 04/10/96 signed and sealed by L. F. Brill, PE.
- 2 No change letter issued by Bonsal American on 07/10/03 and signed by J. L. Cover.



**Candido F. Font, P.E.**  
**Senior Product Control Examiner**  
**NOA No 03-0407.02**  
**Expiration Date: May 19, 2008**  
**Approval Date: August 7, 2003**

## LEGEND

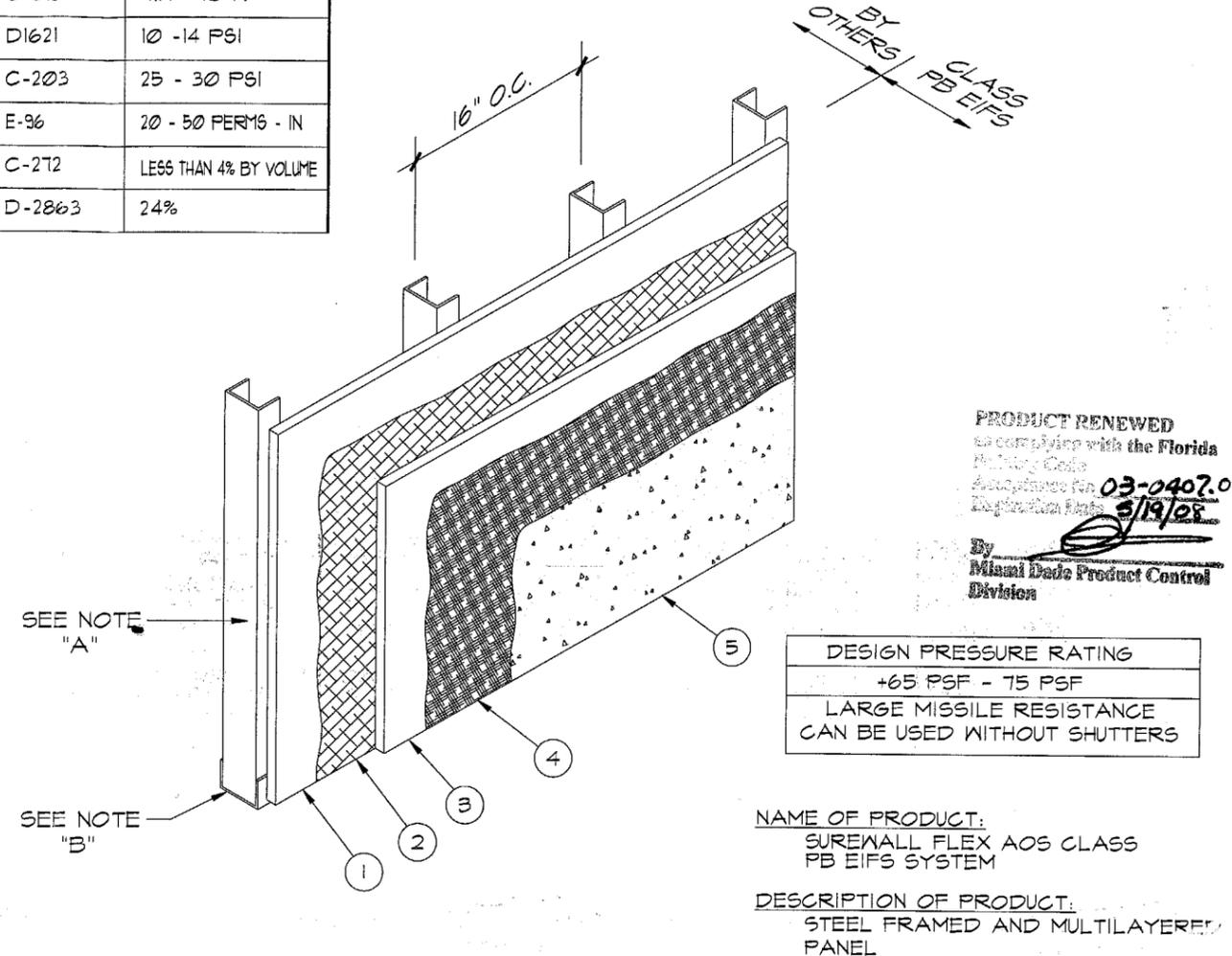
- ① **GYPSUM SHEATING**  
ONE (1) LAYER OF 1/2" EXTERIOR GYPSUM SHEATING BY THE CELOTEX CORP. OF TAMPA, FLORIDA 33607 (UPC CODE 4678800324) CONNECTED TO EACH VERTICAL WITH #8 x 1 1/4" ZINC COATED WAFER HEAD SCREWS @6" O.C.
- ② **METAL LATH & TYVEK STUCCO WRAP**  
INSTALL A 3.4 POUND PER SQUARE YARD GALVANIZED DIAMOND MESH LATH WITH TYVEK STUCCO WRAP MOISTURE BARRIER INSTALLED WITH 1/4" PANHEAD SCREWS AT 6" O.C. INTO STUDS AND 8" O.C. INTO TRACK.
- ③ **EPS BOARD**  
ONE (1) LAYER OF 1" (25.4mm) x 24"x48" THICK CELLOFOAM EPS BOARD ADHESIVELY ATTACHED TO THE METAL LATH WITH SUREWALL FLEX BASE COAT APPLIED TO THE ENTIRE BACK FACE OF THE EPS USING A 5/8" NOTCHED TROWEL. THE EDGES OF THE EPS BOARD ARE BACK WRAPPED WITH A 9 1/2" WIDE SUREWALL DETAIL MESH ADHERED FIRST TO THE SUBSTRATE AND LATER WRAPPED AROUND THE BOARD EDGE BASE COATED AND OVERLAPPED WITH THE FIELD MESH. THE EPS BOARD IS FIRMLY PRESSED TO METAL LATH WITH LONG SIDES HORIZONTAL AND THE JOINTS OF THE EPS BOARD AND METAL LATH TO BE OFFSET BY AT LEAST 8 INCHES. THE EPS BOARDS ARE FIRMLY BUTTED TOGETHER.
- ④ **SUREWALL FLEX BASE COAT AND MESH**  
APPLY A 1/16" THICK COAT OF FLEX BASE COAT TO THE SURFACE OF THE EPS BOARD. APPLY HEAVY (20 OZ.) GLASS FABRIC BUTTING EDGES COMPLETELY COVERED IN BASE COAT. APPLY A SECOND 1/16" COAT OF FLEX BASE COAT OVER THE HEAVY MESH FABRIC COMPLETELY COVERING IT AND LET DRY FOR 24 HOURS; APPLY A 1/16" COAT OF FLEX BASE COAT AND TROWEL IN 10 OZ. MEDIUM MESH FABRIC. APPLY A SECOND 1/32" COAT OF FLEX BASE COAT. OVERLAP THE EDGES OF THE MEDIUM MESH 2 1/2" MIN. OFFSET HEAVY AND MEDIUM MESH JOINTS A MIN. OF 8". ALLOW 24 HOUR DRYING TIME. ALLOW 28 DAY CURING TIME.
- ⑤ **FINISH**  
FINISH WITH SUREWALL ELASTOCOAT TEXTURE FINISH WITH A NOMINAL THICKNESS OF 1/16".

## NOTES

- A **FRAME CONSTRUCTION:**  
VERTICAL STEEL CHANNELS ARE 6" x 1 3/8" x 120" x 18" GA. WITH 1 1/2" x 4 1/2" HANDLING HOLES @30" O.C. AND 1/2" LIP. THE HORIZONTAL CHANNELS ARE 1 1/4" x 6" x 48" x 18 GA. THE FRAMES CONSIST 4 VERTICAL CHANNELS @ NOMINAL 16" O.C. JOINED TO TOP AND BOTTOM CHANNEL WITH #6 x 1/2" HEX HEAD SELF-DRILLING SCREWS THROUGH EACH STUD FLANGE AND INTO THE FLANGE OF THE STUD TRACK. THE FINISHED PRODUCT SIZE FOR ONE PANEL IS 48"W x 120"H x 8 3/8"D.
- B **TRACK CONNECTION:**  
TOP TRACK CONNECTED TO 3500 PSI CONCRETE LINTEL WITH 6 - 1/4" x 1 1/2" ELCO TAPCONS @8" O.C. BOTTOM RAIL CONNECTED TO GROUT-FILLED BLOCK WITH (12) X-ZF 32P8S23 HILTI POWER-ACTUATED FASTENERS @4" O.C. STARTING WITH 2" OFFSET FROM EDGE.
- C **WATER INTRUSION PREVENTION:**  
DETAILS ON SHEET 2 OF 2 ARE TYPICAL AND SHOW INTENT TO PREVENT WATER INFILTRATION INTO AND BEHIND THE SYSTEM. ALTERNATE DETAILS AND SPECIFIC CONDITIONS NOT COVERED BY THE TYPICAL DETAILS ARE THE RESPONSIBILITY OF THE LICENSED DESIGN PROFESSIONAL IN CONSULTATION WITH W.R. BONSAI CO.

## PROPERTIES OF CELLOFOAM EPS

DESCRIPTION	ASTM	PROPERTIES
DENSITY	C-303 OR D-1622	.030 PCF MAX. 1.0 PCF MAX.
THERMAL RESISTANCE	C-177 OR C-518	3.85 @ 75°F. 4.17 @ 40°F.
COMP. STRENGTH	D1621	10 - 14 PSI
FLEXURAL STRENGTH	C-203	25 - 30 PSI
WATER VAPOUR TRANSMISSION	E-96	20 - 50 PERMS - IN
WATER ABSORPTION	C-272	LESS THAN 4% BY VOLUME
OXYGEN INDEX	D-2863	24%



## GENERAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION AND ITS LATEST SUPPLEMENTS.
2. THIS SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH THE DADE COUNTY PROTOCOL PA-201 (LARGE MISSILE), PA-202 STRUCTURAL, AND PA-203 CYCLIC TESTING.
3. THIS SYSTEM SHALL BE APPLIED BY A LICENSED PLASTERING CONTRACTOR FOLLOWING THIS NOTICE OF ACCEPTANCE, THE RECOMMENDATION OF W.R. BONSAI CO. AND THE APPLICABLE SECTION OF THE SOUTH FLORIDA BUILDING CODE.
4. THE ENGINEER AND/OR ARCHITECT OF RECORD FOR EACH PROJECT USING THIS SYSTEM SHALL SIZE ALL STUD FRAMING WALLS AS REQUIRED BY GOVERNING CODES AND THIS DOCUMENT.
5. INSULATION BOARDS SHALL BE POSITIONED IN A RUNNING BOND PATTERN.
6. ALL STUDS USED WITH THIS SYSTEM SHALL BE COMPLETELY SHEATHED AT THE INTERIOR FLANGE OR BRIDGED AT MAXIMUM EVERY 5' OF STUD LENGTH OR AS SPECIFIED BY STUD MANUFACTURER.
7. ALL STEEL STUDS SHALL BE STRUCTURAL WITH 1-3/8" MIN. FLANGE WIDTH AND HAVE MINIMUM YIELD STRENGTH OF 33,000 PSI.

*Handwritten signature and date:*  
6-30-03  
PE 6385

BRILL & RODRIGUEZ, INC.

**Brill & Rodriguez, Inc.**  
2001, P.O. Box 100, Boca Raton, Florida 33434  
Telephone: 561-440-2301 Fax: 561-440-2311

**SUREWALL FLEX AOS SYSTEM**

**BONSAI AMERICAN 8201 ARROWRIDGE BLVD. CHARLOTTE, NC 28244**

Date	11-14-99	Drawn By	J.L.R.	Checked by	L.F.B.	Scale:	N.T.S.
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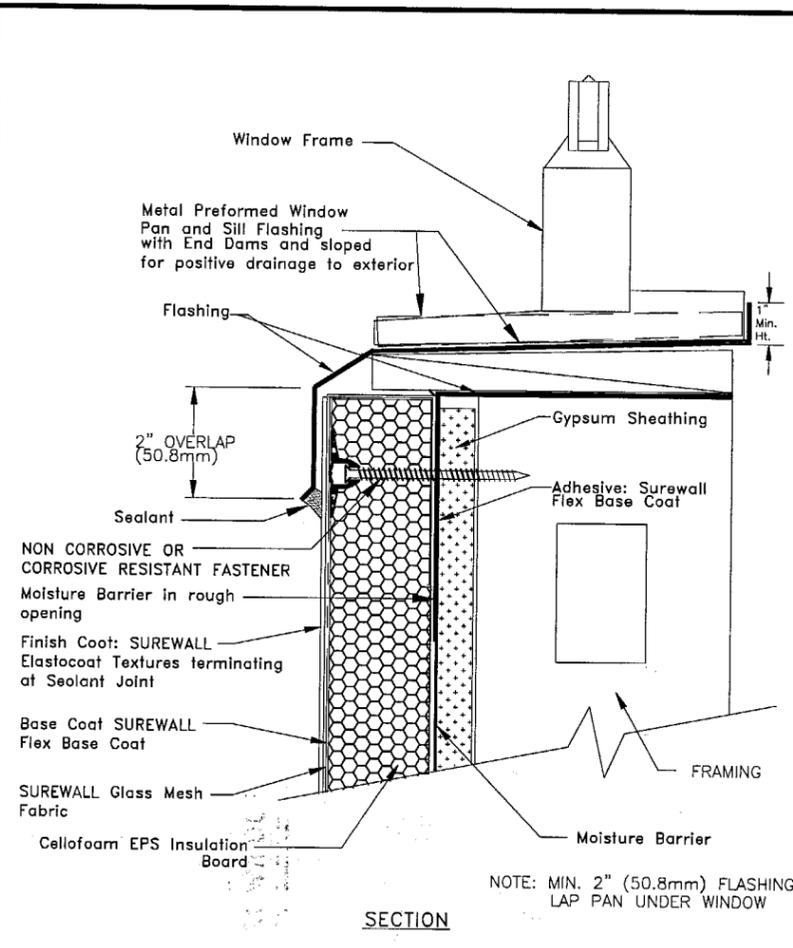
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drawing

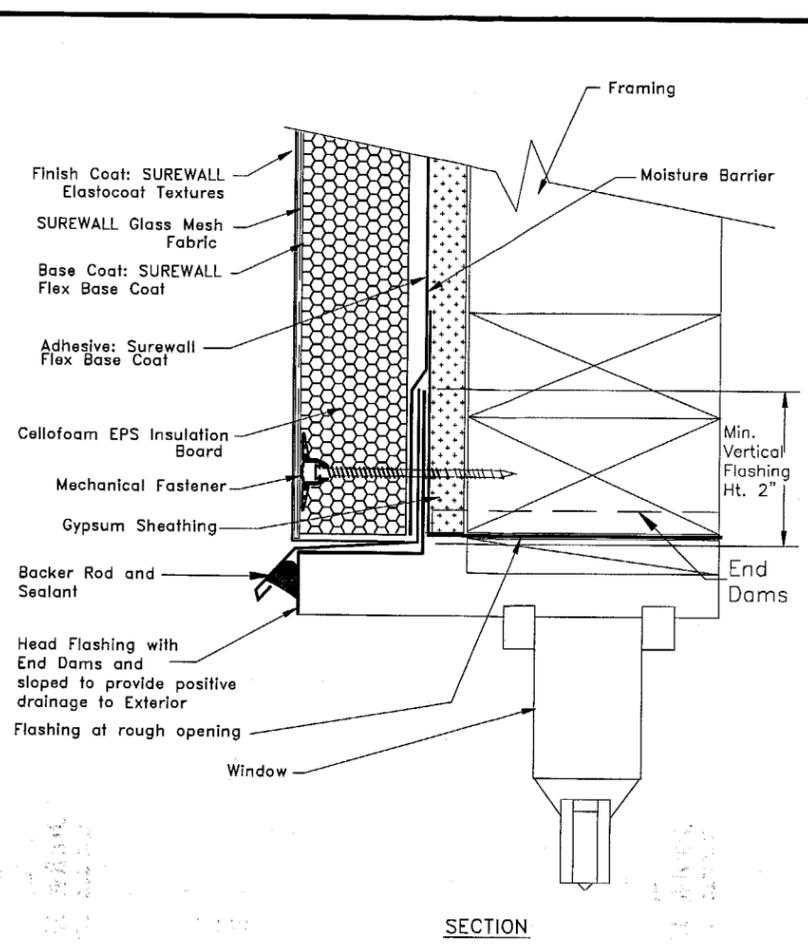
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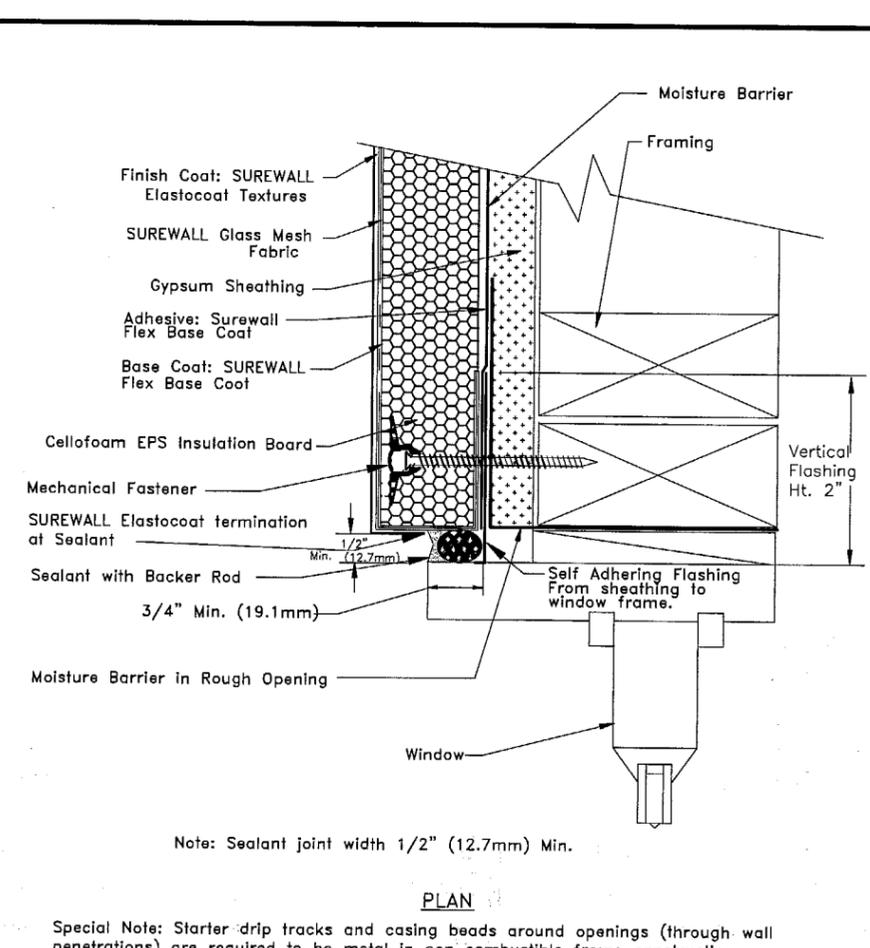
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Drawn by	JLR
Checked by	LFB
Scale	N.T.S.
File number	9937A
drawing	A2
of 2	



TYPICAL WINDOW SILL DETAIL  
 SUREWALL® FLEX MOISTURE  
 MANAGED SYSTEM CLASS PB



TYPICAL WINDOW HEAD  
 DETAIL SUREWALL®FLEX  
 MOISTURE MANAGED SYSTEM  
 CLASS PB



Special Note: Starter drip tracks and casing beads around openings (through wall penetrations) are required to be metal in non combustible frame construction

TYPICAL WINDOW JAMB  
 DETAIL SUREWALL® FLEX  
 MOISTURE MANAGED SYSTEM  
 CLASS PB

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0407.02  
 Expiration Date 05/19/08  
 By   
 Miami Dade Product Control  
 Division

*J. Rodriguez*  
 03-30-09  
 PEC3583

