



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

W. R. Bonsal Company
8201 Arrowbridge Boulevard
Charlotte NC 28224-1148

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

SUREWALL Flex System

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 00-0118.09

Expires: 05/19/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 05/19/2000

1 of 3



W. R. Bonsal Company.

ACCEPTANCE NO: 00-0118.09

APPROVED : MAY 19 2000

EXPIRES : MAY 19 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This approves Exterior Insulation and Finish System as described in Section 2 of this Notice of Acceptance (N.O.A.) designed to comply with the South Florida Building Code 1994 Edition for Miami-Dade County (SFBC). For the location where the pressure requirements, as determined by the SFBC Chapter 23 do not exceed the design pressure rating values indicated in the approved drawing.

2. PRODUCT DESCRIPTION

2.1 The **W.R. Bonsal Exterior Insulation & Finish System** and its components shall be constructed in strict compliance with the following documents: Drawing No.9937A, sheets A1 & A2, titled "Surewall Flex AOS System" prepared by Brill & Rodriguez, Inc., dated 11/09/99, with no revisions. They bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the Approved Drawing.

3. LIMITATIONS

3.1 This system is not to be used on horizontal surfaces exposed to weather except as a soffit, it is intended to be used on wall systems only.

4. INSTALLATION

4.1 The Surewall Flex AOS System and its components shall be installed in strict compliance with the approved drawing.

4.2 The installation of this product does not require Hurricane Protection System.

5. LABELING

5.1 Each component shall bear a permanent label with the manufacturer's logo, city, state and the following statement "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for Building Permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this N.O.A.

6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of this system.


Candido Font PE, Senior Product Control Examiner
Product Control Division

W. R. Bonsal Company.

ACCEPTANCE NO.: 00-0118.09

APPROVED : MAY 19 2000

EXPIRES : MAY 19 2003

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.


Candido Font PE, Senior Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

LEGEND

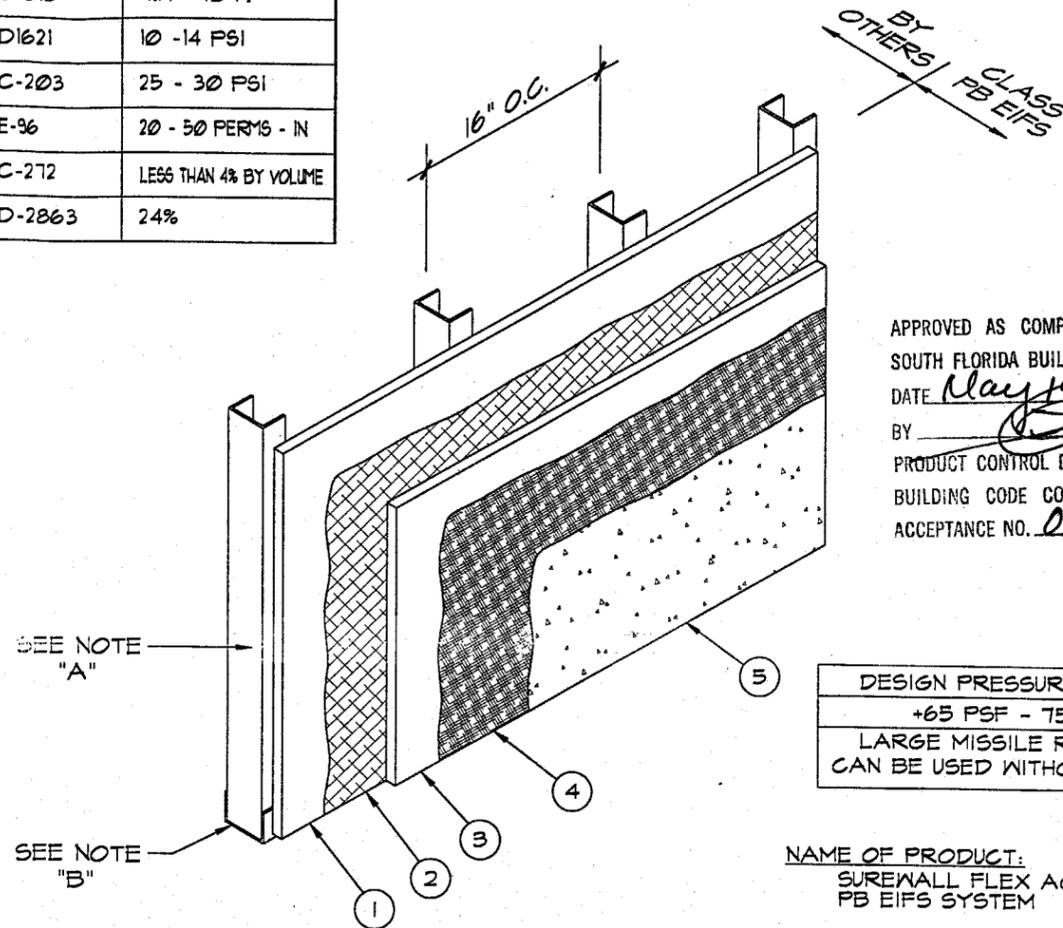
- ① **GYPSUM SHEATING**
ONE (1) LAYER OF 1/2" EXTERIOR GYPSUM SHEATING BY THE CELOTEX CORP. OF TAMPA, FLORIDA 33607 (UPC CODE 4678800324) CONNECTED TO EACH VERTICAL WITH #8 x 1 1/4" ZINC COATED WAFER HEAD SCREWS @6" O.C.
- ② **METAL LATH & TYVEK STUCCO WRAP**
INSTALL A 3.4 POUND PER SQUARE YARD GALVANIZED DIAMOND MESH LATH WITH TYVEK STUCCO WRAP MOISTURE BARRIER INSTALLED WITH 1 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 5/8" 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	0.90 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 VAPOR TRANSMISSION	E-96	20 - 50 PERMS - IN
WATER ABSORPTION	C-272	LESS THAN 4% BY VOLUME
OXYGEN INDEX	D-2863	24%



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE May 19, 2000 BY [Signature] PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0118.09

DESIGN PRESSURE RATING
+65 PSF - 75 PSF
LARGE MISSILE RESISTANCE
CAN BE USED WITHOUT SHUTTERS

NAME OF PRODUCT:
SUREWALL FLEX AOS CLASS PB EIFS SYSTEM
DESCRIPTION OF PRODUCT:
STEEL FRAMED AND MULTILAYERED PANEL

- 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 1-5/8" MIN. FLANGE WIDTH AND HAVE MINIMUM YIELD STRENGTH OF 33,000 PSI.

[Handwritten Signature]
12-2-99
BRILL & RODRIGUEZ, INC.

Brill & Rodriguez, Inc.
1001 N. Palm Beach Blvd., Suite 100, Palm Beach, FL 33480
Tel: 561-845-1111

SUREWALL FLEX AOS SYSTEM

W.R. BONSAI CO. 8201 ARROWRIDGE BLVD. CHARLOTTE, NC 28244

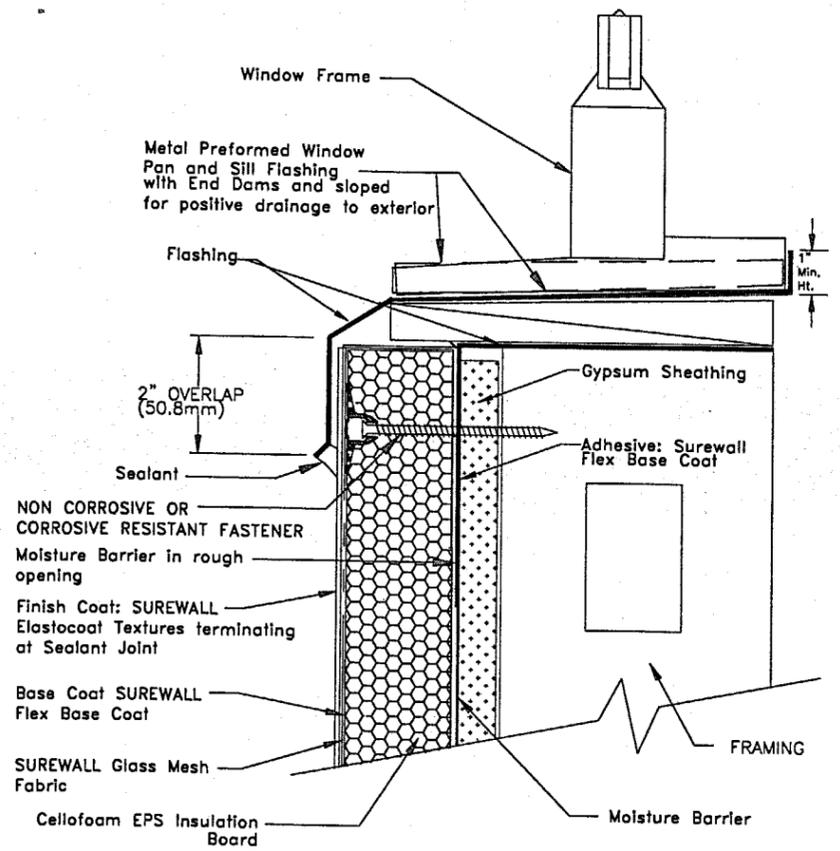
00-0118.09

Date	Drawn By	Checked By	Scale
11-4-99	J.L.R.	L.F.B.	N.T.S.

File number
9937A

drawing
A1

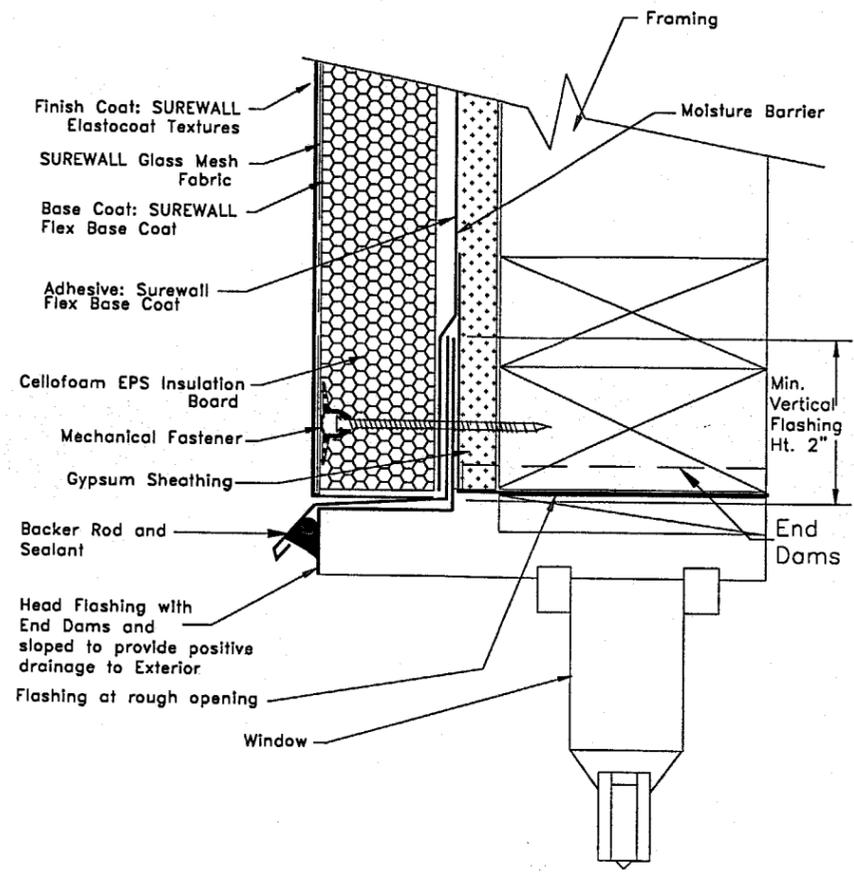
of 2



NOTE: MIN. 2" (50.8mm) FLASHING LAP PAN UNDER WINDOW

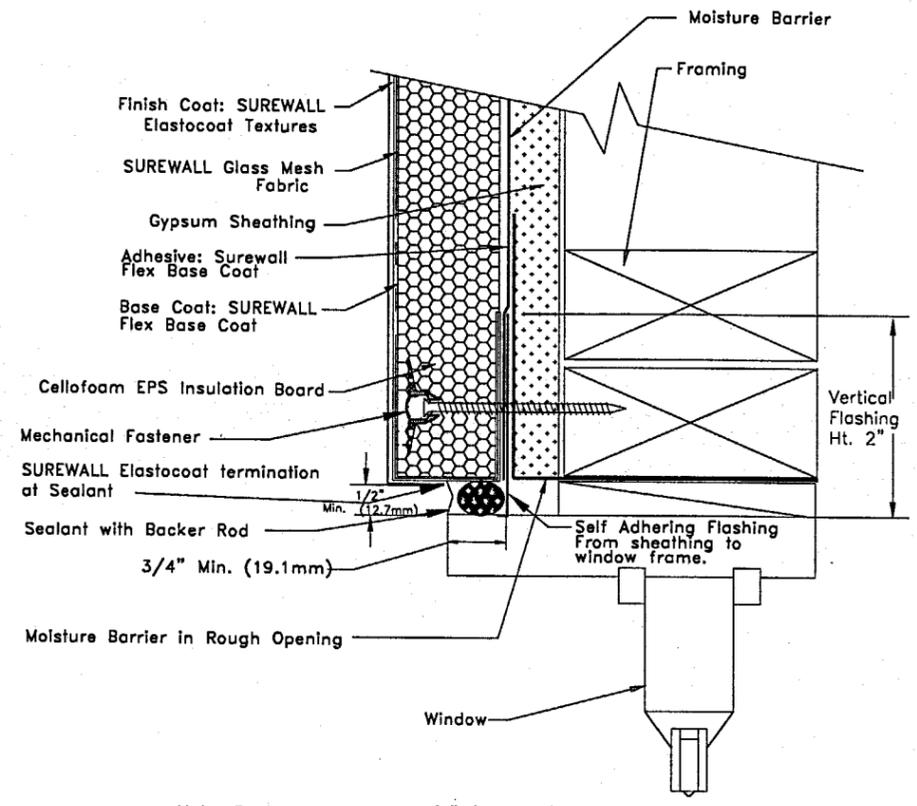
SECTION

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



SECTION

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



Note: Sealant joint width 1/2" (12.7mm) Min.

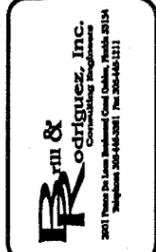
PLAN

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

Handwritten signature and date:
12-2-99

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE May 13, 2000
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0118-09



SUREWALL FLEX AOS SYSTEM
W.R. BONSAI CO. 8201 ARROWRIDGE BLVD. CHARLOTTE, NC 28244

Date	11-29-99
Drawn by	J.L.R.
Checked by	L.F.B.
Scale	N.T.S.

File number
9937A

drawing
A2

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