



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

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

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

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Efco Corporation
1000 County Road
Monett, MO 65708

Your application for Notice of Acceptance (NOA) of:

Series "S2600-System II" Aluminum Fixed Window - Impact Resistant

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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-1207.04
EXPIRES: 09/27/2006

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 09/27/2001



EFCO Corporation

ACCEPTANCE No.: 00-1207.04
APPROVED : SEP 27 2001
EXPIRES : SEP 27 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves an aluminum fixed window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The Series S2600-System II Aluminum Fixed Window – Large Missile & Small Missile Impact Resistant and its components shall be constructed in strict compliance with the following documents: Drawing No 1028, Sheets 1 thru 4 of 4, titled "S-2600 System II Small & Large Missile Impact Fixed Window" dated 11/09/00, 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 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 drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications and side-by-side installations, as shown in approved drawings.

4. INSTALLATION

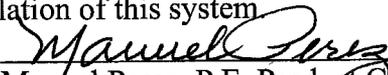
- 4.1 The aluminum fixed window and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters):
- 4.2.1 For Large Missile Impact Glass: the installation of this unit **will not require** a hurricane protection system.
- 4.2.2 For Small Missile Impact Glass: the installation of this unit up to 30 feet above grade, **will require** a hurricane protection system, but for installations above 30 feet above grade **will not require** a hurricane protection system.
- 4.2.3 To determine if the glass is large missile or small missile impact resistant, see glazing detail on Sheet 3 of approved drawings.

5. LABELING

- 5.1 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".

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 Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system


Manuel Perez, P.E. Product Control Examiner
Product Control Division

EFCO Corporation

ACCEPTANCE No.: 00-1207.04

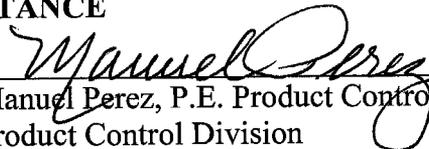
APPROVED : SEP 27 2001

EXPIRES : SEP 27 2006

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.

END OF THIS ACCEPTANCE


Manuel Perez, P.E. Product Control Examiner
Product Control Division

EFCO Corporation

ACCEPTANCE No.: 00-1207.04

APPROVED : SEP 27 2001

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1028**, Sheets 1 thru 4 of 4, titled "S-2600 System II Small & Large Missile Impact Fixed Window" dated 11/09/00, 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 SFBC PA 202-94.
2) Uniform Static Air Pressure Test, Loading per SFBC PA 202-94.
3) Water Resistance Test, per SFBC PA 202-94.
4) Forced Entry Test, per AAMA 1302.5 & SFBC PA 202-94.
5) **Large Missile** Impact Test, per SFBC PA 201-94.
6) Cyclic Wind Pressure Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of an EFCO S2600 System II combination aluminum fixed/project-out, fixed and outswing casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0046-0508-99**, dated from 05/10/99 to 06/30/99, signed and sealed by Vinu J Abraham, P.E._[MP1].
2. Test reports on 1) Air Infiltration Test, per SFBC PA 202-94.
2) Uniform Static Air Pressure Test, Loading per SFBC PA 202-94.
3) Water Resistance Test, per SFBC PA 202-94.
4) Forced Entry Test, per AAMA 1302.5 & SFBC PA 202-94.
5) **Small Missile** Impact Test, per SFBC PA 201-94. (ball bearings)
6) Cyclic Wind Pressure Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of an EFCO S2600 System II combination aluminum fixed/project-out, fixed and outswing casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0046-0508-99**, dated from 05/10/99 to 06/30/99, signed and sealed by Vinu J Abraham, P.E.

C. CALCULATIONS

1. Anchor and mullion calculations, dated 11/28/00, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

EFCO Corporation

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(For File ONLY. Not part of NOA.)

D. MATERIAL CERTIFICATIONS

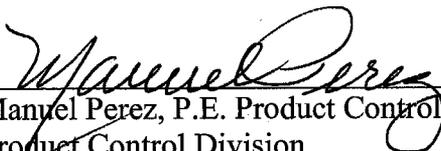
1. Notice of Acceptance No. **01-0205.02**, issued to Solutia, Inc. for their "Saflex / Keepsafe Maximum", approved on 05/17/01 and expiring on 05/21/06.

E. STATEMENTS

1. Letter of Code Compliance, issued by W.W. Schaefer Engineering & Consulting, P.A. on November 28, 2000, signed and sealed by Warren Schaefer, P.E.
2. Letter of no financial interest, issued by W.W. Schaefer Engineering & Consulting, P.A. on November 28, 2000, signed and sealed by Warren Schaefer, P.E.
4. Laboratory compliance letter for Test Report No. **HTL-0046-0508-99**, issued by Hurricane Test Laboratory, Inc., dated 09/09/99, signed and sealed by Vinu J. Abraham, P.E.

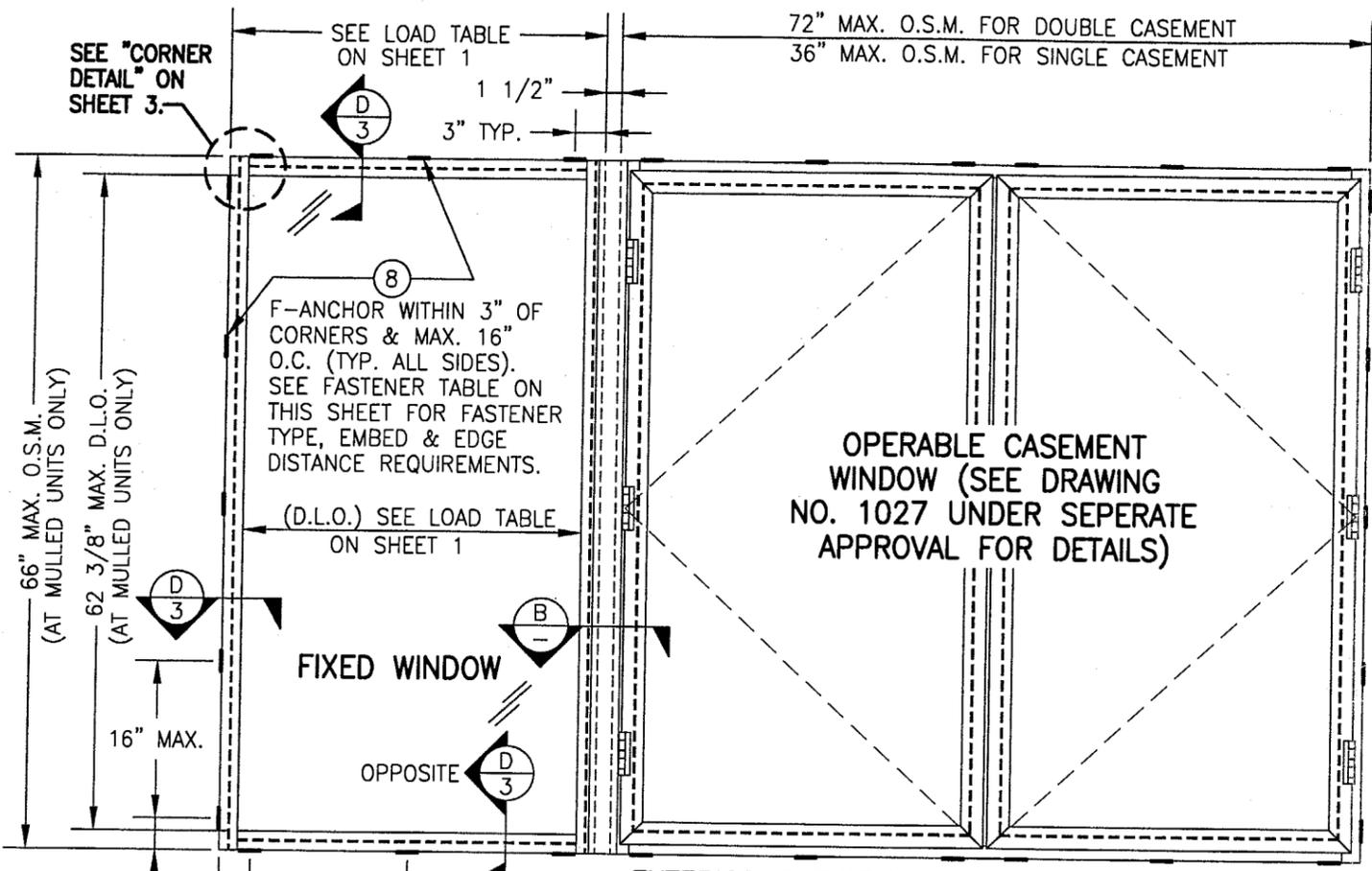
F. OTHER

1. None.

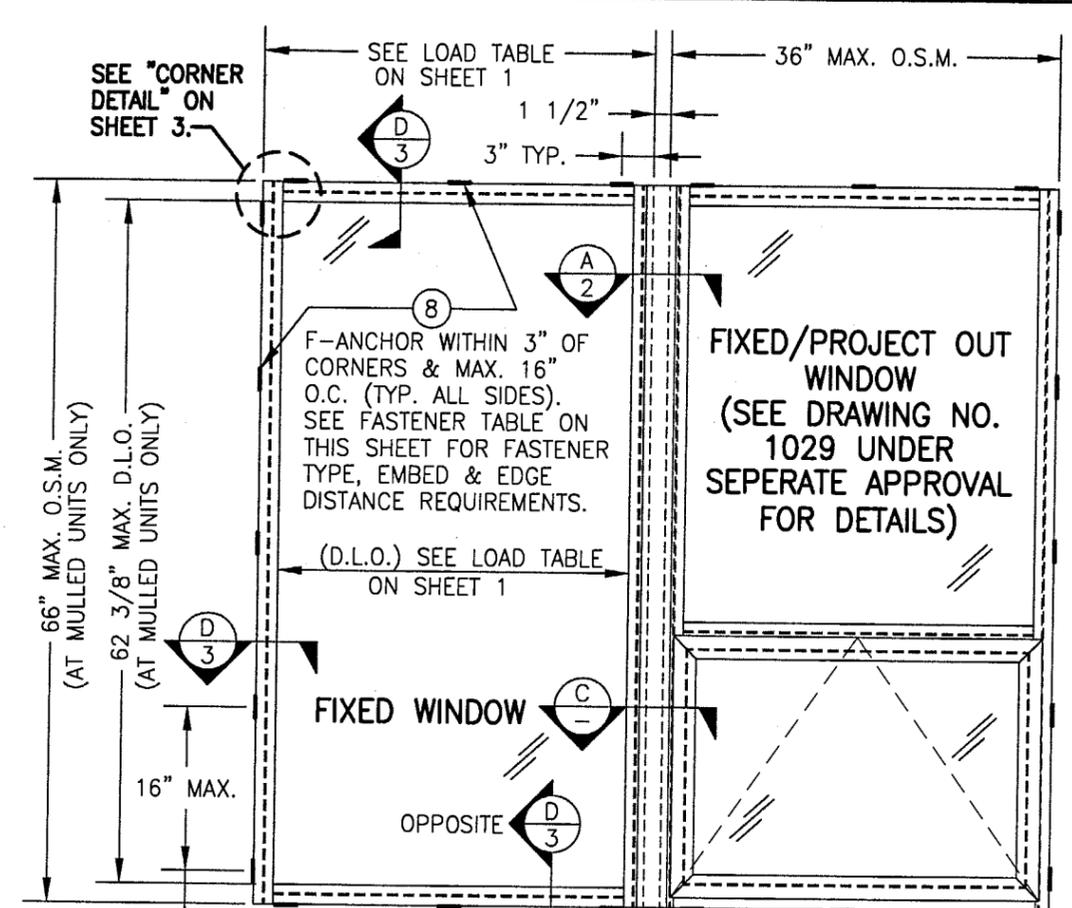

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Page: 3

[MP1]Test for large missile impact is not inside file.

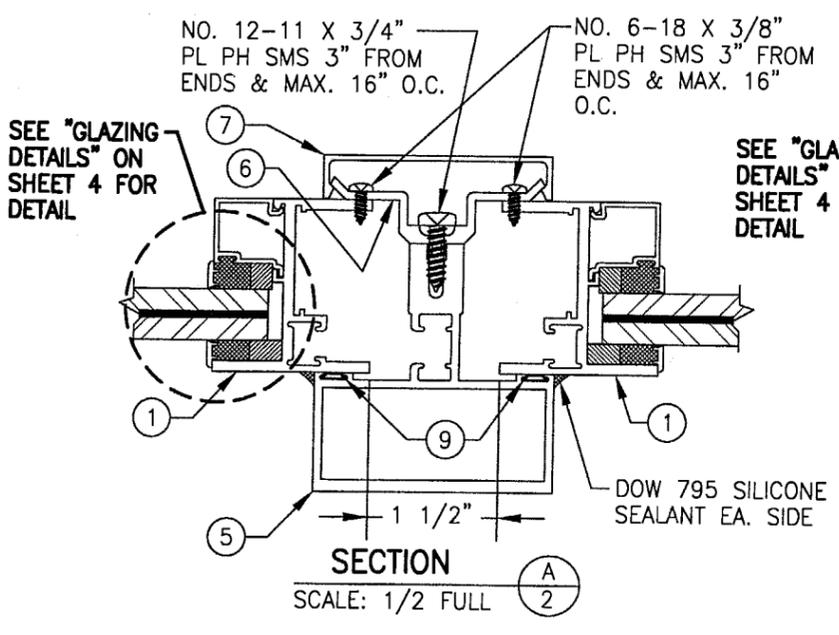


EXTERIOR ELEVATION
FIXED WINDOW MULLED TO OPERABLE CASEMENT
 (TYP. WITH SINGLE & DOUBLE CASEMENT WINDOWS)
 SCALE: 3/4"=1'-0"
 MORE THAN 2 WINDOWS MAY BE STACKED HORIZONTALLY

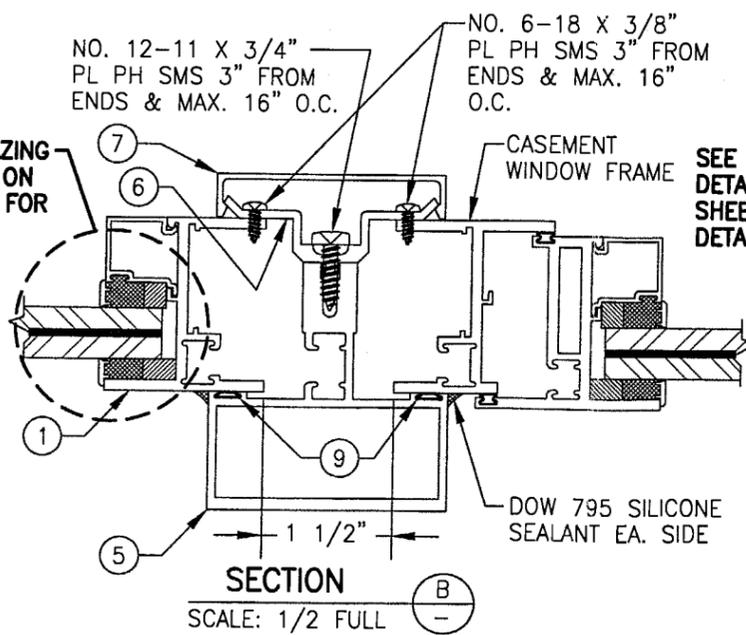


EXTERIOR ELEVATION
FIXED WINDOW MULLED TO FIXED/PROJECT OUT WINDOW
 SCALE: 3/4"=1'-0"
 MORE THAN 2 WINDOWS MAY BE STACKED HORIZONTALLY

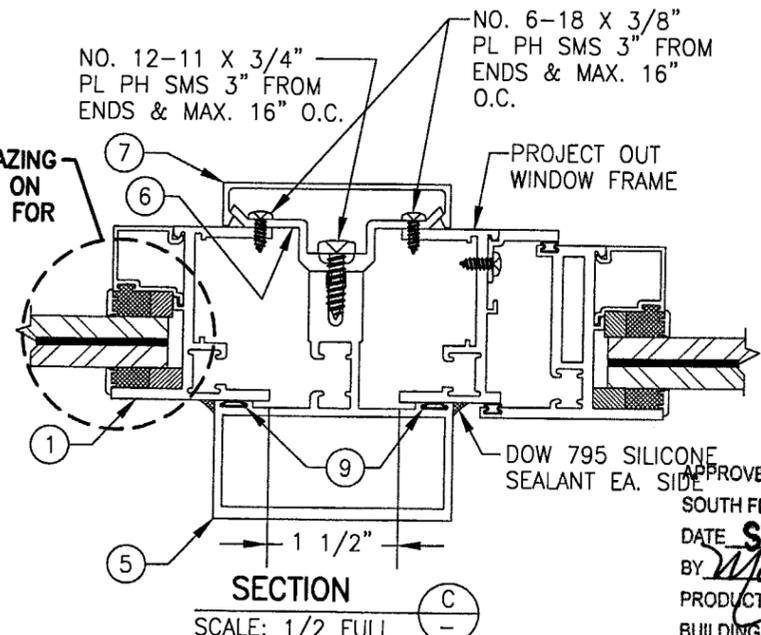
O.S.M. = OUTSIDE FRAME MEASUREMENT



SECTION A
 SCALE: 1/2 FULL



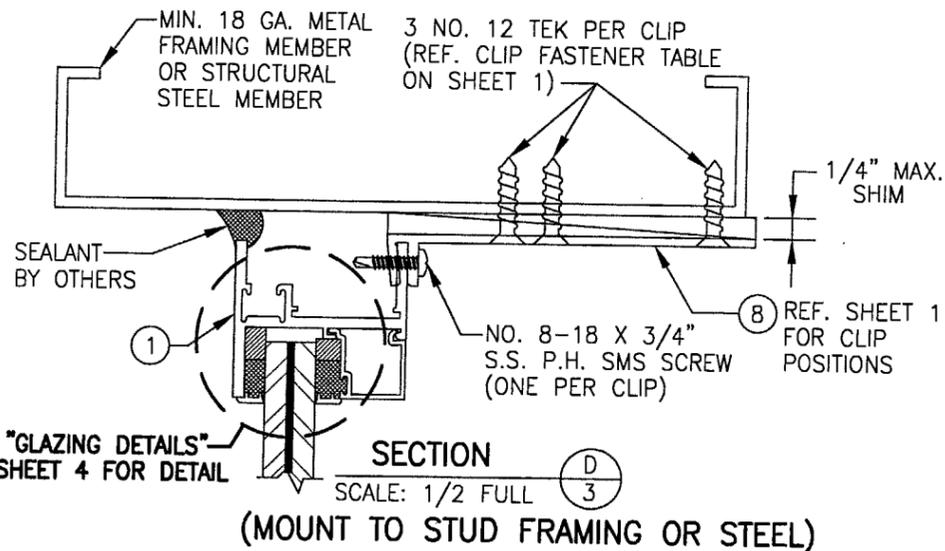
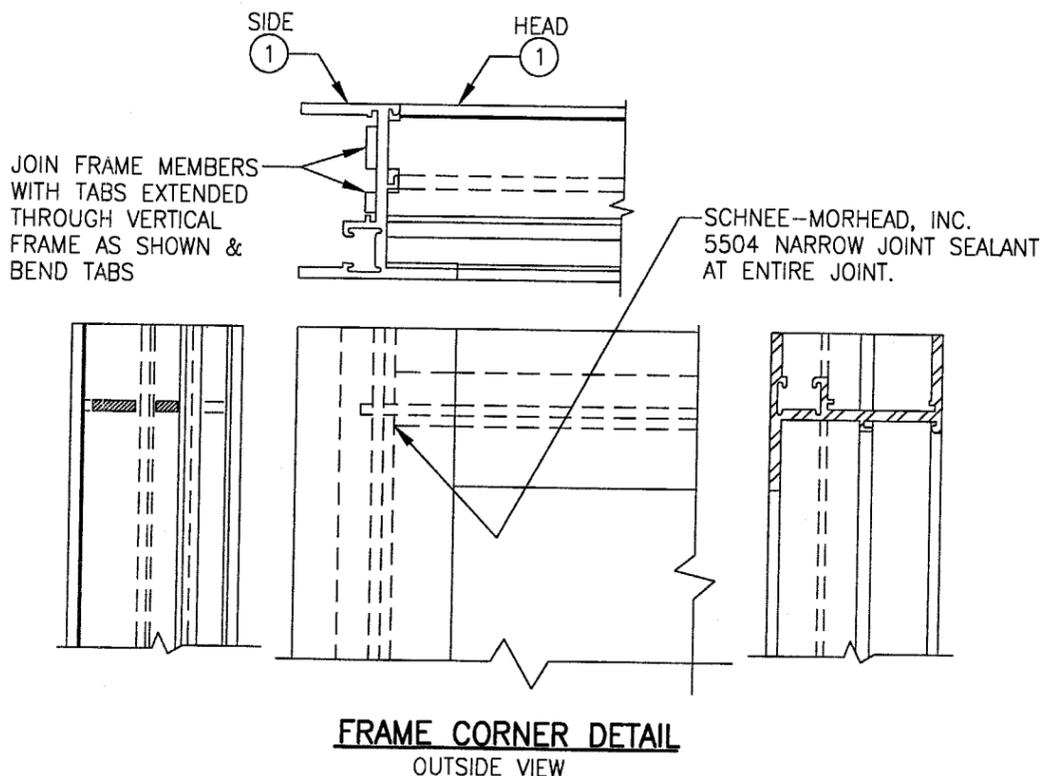
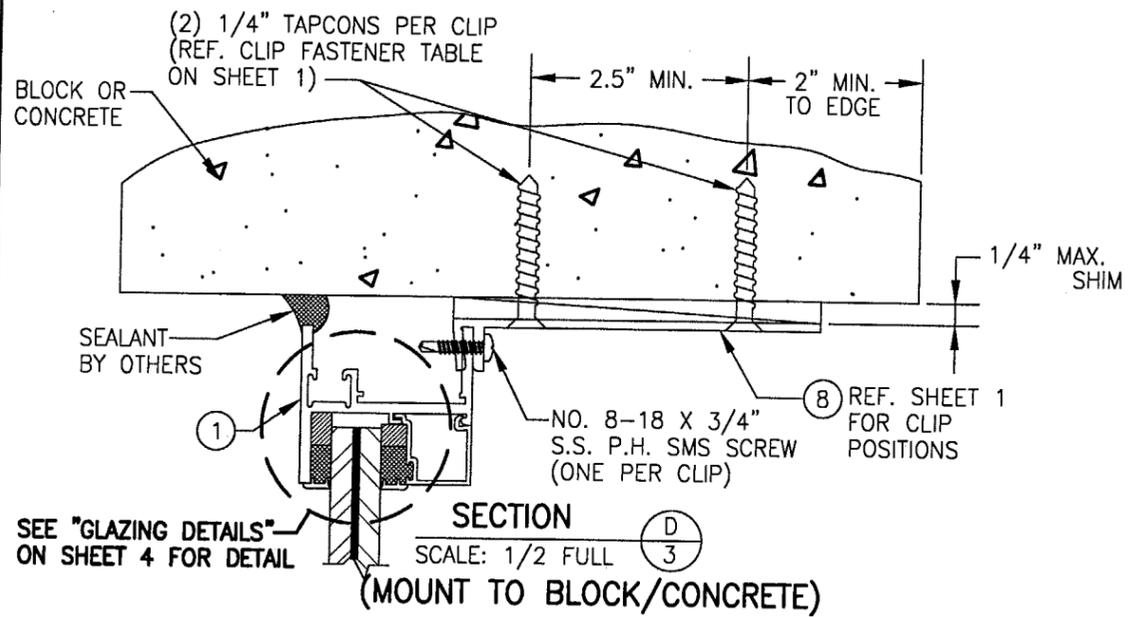
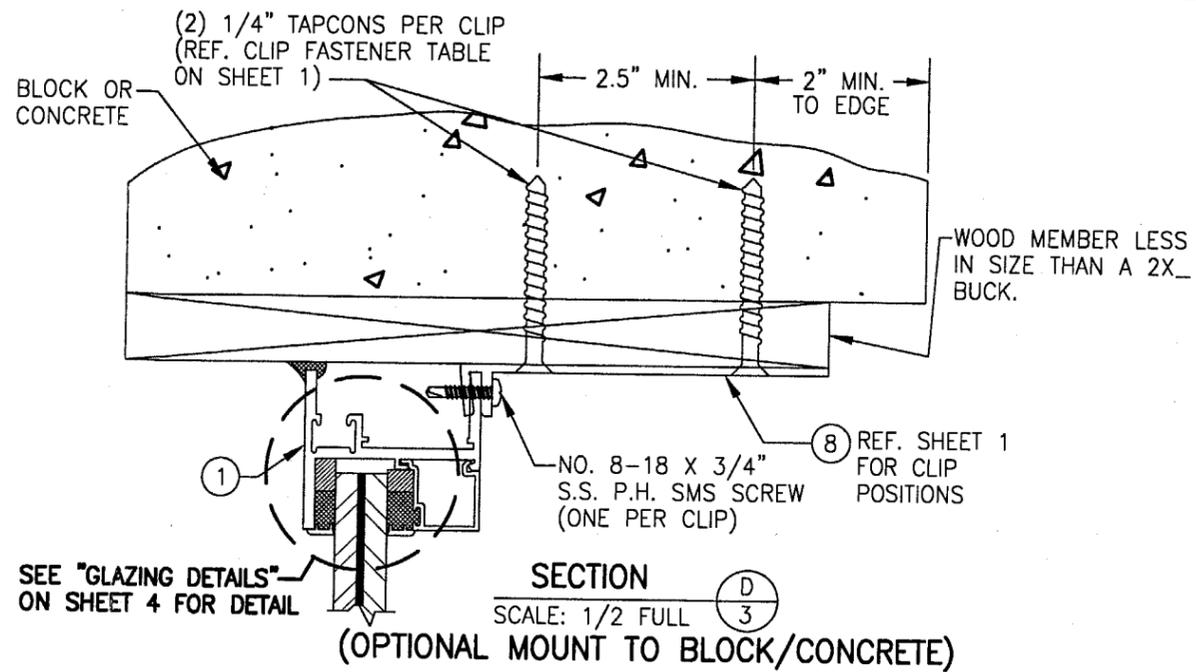
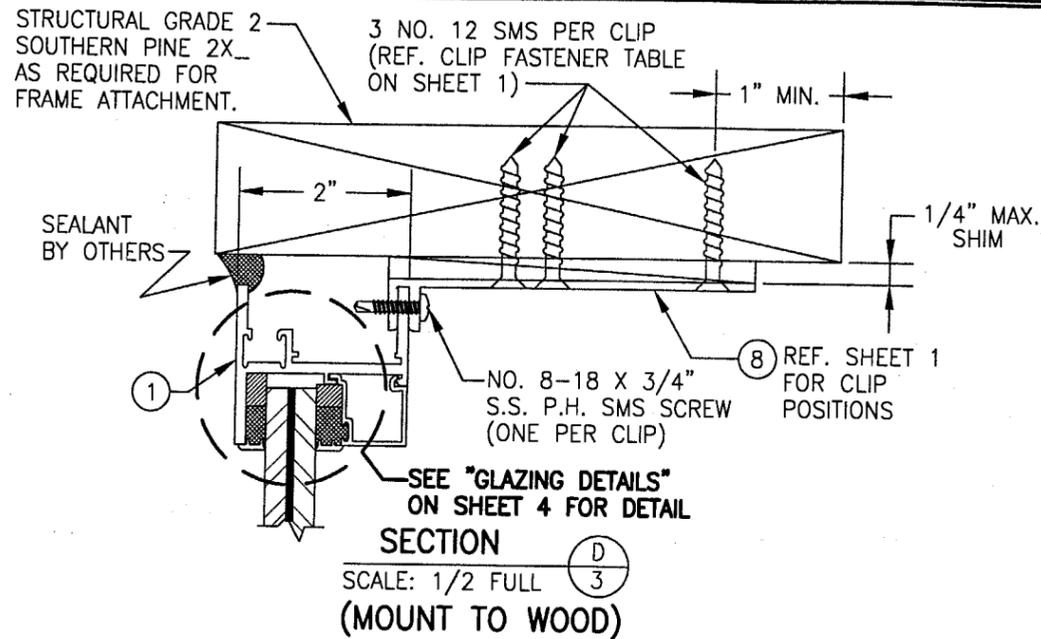
SECTION B
 SCALE: 1/2 FULL



SECTION C
 SCALE: 1/2 FULL

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE **SEP 27 2000**
 BY *Manuel...*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. **06-1207-04**

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 11/09/00
DATE	
BY	
REVISION DESCRIPTION	
NO.	
S-2600 SYSTEM II SMALL & LARGE MISSILE IMPACT FIXED WINDOW	
MANUFACTURER EFCO CORPORATION	
1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION NOV 29 2000	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1028	REV.
SHEET NO. 2	OF 4



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE **SEP 27 2001**

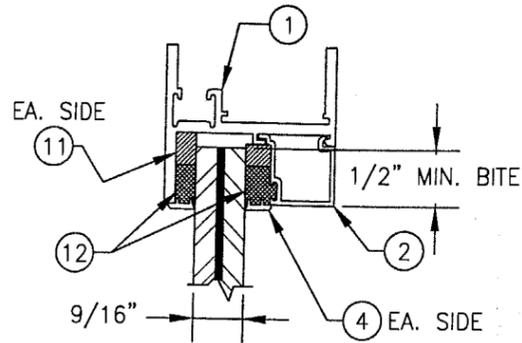
BY *Manuel Perez*

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

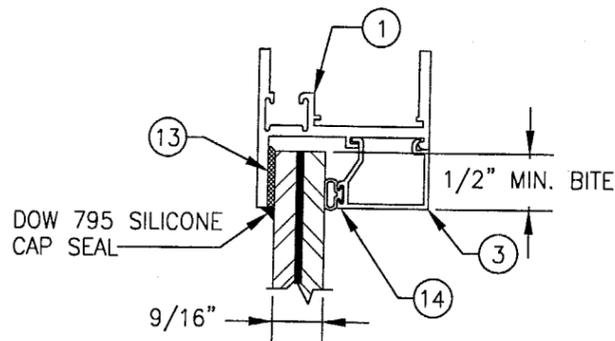
ACCEPTANCE NO. **00-1207-04**

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/09/00
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	
S-2600 SYSTEM II SMALL & LARGE MISSILE IMPACT FIXED WINDOW	
MANUFACTURER	
EFCO CORPORATION	
1000 COUNTY ROAD; P.O. BOX 609	
MONETT, MO 65708-0609	
800-221-4169	
CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
600 SANDTREE DRIVE; SUITE 203B	
PALM BEACH GARDENS, FL 33403	
PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION	
NOV 29 2000	
WARREN W. SCHAEFER, P.E.	
P.E. NO. 44135	
DRAWING NO.	REV.
1028	
SHEET NO.	
3 OF 4	



**GLAZING DETAIL
LARGE MISSILE IMPACT**

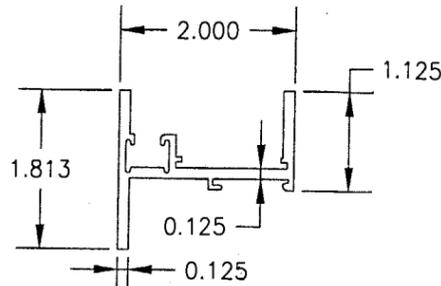
9/16" THK. LAMINATED GLASS BY SAFLEX WITH 1/4" THK. HEAT STRENGTHENED PANES EA. SIDE & 0.09" PVB INNER LAYER



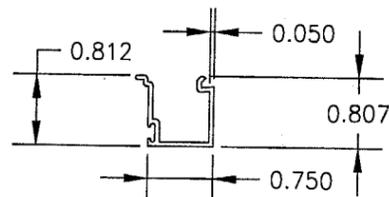
**GLAZING DETAIL
SMALL MISSILE IMPACT**

9/16" THK. LAMINATED GLASS BY SAFLEX WITH 1/4" THK. HEAT STRENGTHENED PANES EA. SIDE & 0.06" PVB INNER LAYER

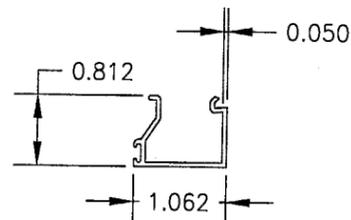
WHEN GLAZED FOR SMALL MISSILE IMPACT, THE WINDOWS MAY NOT BE INSTALLED AT SILL ELEVATIONS LESS THAN 30 FT. ABOVE



① **JAMB**

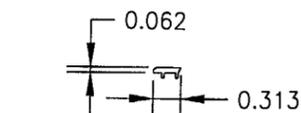


② **INTERIOR GLAZING STOP (LARGE MISSILE IMPACT)**

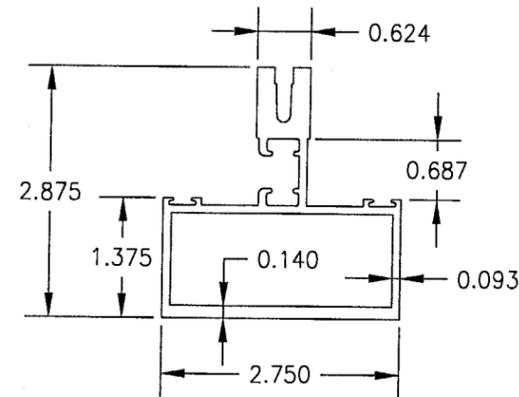


③ **INTERIOR GLAZING STOP (SMALL MISSILE IMPACT)**

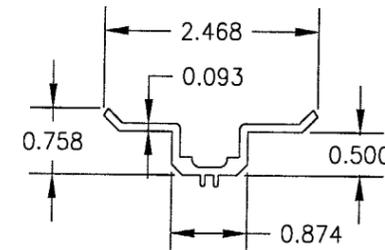
ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	ES48	JAMB/FRAME	EFCO; 6063-T6 ALUMINUM
2	ES58	INT. GLAZING STOP (LG. MISSILE IMPACT)	EFCO; 6063-T6 ALUMINUM
3	EF04	INT. GLAZING STOP (SM. MISSILE IMPACT)	EFCO; 6063-T6 ALUMINUM
4	LB00	GLAZING CAP	FIBER REINFORCED NYLON
5	EG50	MULLION	EFCO; 6063-T6 ALUMINUM
6	EE32	MULLION CLIP	EFCO; 6063-T6 ALUMINUM
7	EE31	MULLION COVER	EFCO; 6063-T6 ALUMINUM
8	KA23/1880	F-ANCHOR	EFCO; 6063-T6 ALUMINUM
SEALS & SEALANTS			
9	WVB4	CONT. VINYL BULB SEAL	CENTRAL PLASTICS
10	-	OPEN	-
11	-	3/16 FOAM TAPE	NORTON
12	-	DOW 995 SILICONE	DOW CORNING
13	-	BACK BEDDING TAPE	TREMCO
14	WVB2	CONT. VINYL BULB SEAL	CENTRAL PLASTICS



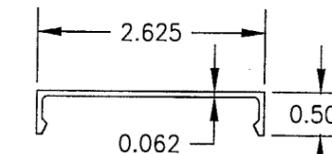
④ **GLAZING CAP**



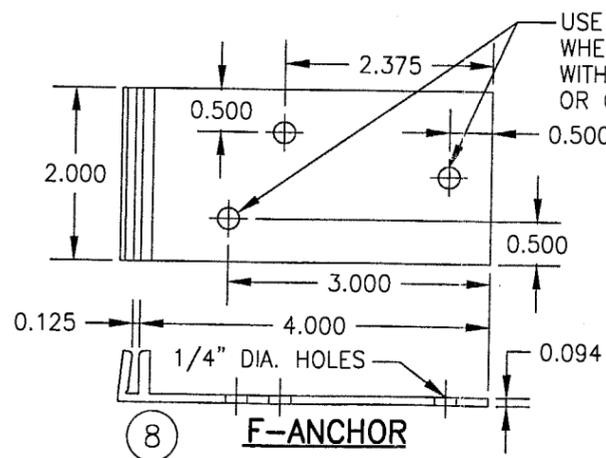
⑤ **MULLION**



⑥ **MULLION CLIP**



⑦ **MULLION COVER**



⑧ **F-ANCHOR**

USE THESE TWO HOLES WHEN APPLYING ANCHOR WITH TAPCONS TO BLOCK OR CONCRETE!

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/09/00
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE
S-2600 SYSTEM II SMALL & LARGE MISSILE IMPACT FIXED WINDOW

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
NOV 29 2000

DRAWING NO.
1028

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE **SEP 27 2001**
BY *Manuel Piny*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **00-1202.04**

SHEET NO.
4 OF 4

MANUFACTURER
EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169