



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)

www.buildingcodeonline.com

EFCO Corporation
1000 County Road
Monett, MO 65708

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 6600 Aluminum Fixed Window- L.M.I.

APPROVAL DOCUMENT Drawing No. **1025**, titled "S-6600 Small & Large Missile Impact Fixed Window", sheets 1 through 3 of 3, dated 11/06/00 with last revision "A1" dated 07/25/05 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: 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# 00-0207.15 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
9/1/06

NOA No 05-1222.03
Expiration Date: October 04, 2011
Approval Date: September 19, 2006
Page 1

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturers die drawings and sections.
2. Drawing No. **1025**, titled "S-6600 Small & Large Missile Impact Fixed Window", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 11/06/00 with last revision "A1" dated 07/25/05, 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) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94.
 - 5) Large Missile Impact Test, per FBC, TAS 201-94.
 - 6) Cyclic Wind Pressure Loading Test, per FBC, TAS 203-94along with marked-up drawings and installation diagram of an EFCO S-6600/S-660 System II combination aluminum fixed/project-out, fixed and outswing casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0046-0301-99** dated from 03/08/99 to 04/12/99, signed and sealed by Vinu J. Abraham, P.E.
"Submitted under NOA# 00-0207.15"
2. 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) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94.
 - 5) Small Missile Impact Test, per FBC, TAS 201-94.
 - 6) Cyclic Wind Pressure Loading Test, per FBC, TAS 203-94along with marked-up drawings and installation diagram of an EFCO S-6600/S-660 System II combination aluminum fixed/project-out, fixed and outswing casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0046-0610-99** dated from 06/16 to 06/17/99, signed and sealed by Vinu J. Abraham, P.E.
"Submitted under NOA# 00-0207.15"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/07/00, signed and sealed by Warren W. Schaefer, P.E. on 08/09/06.

D. QUALITY ASSURANCE

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



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 05-1222.03

Expiration Date: October 04, 2011
Approval Date: September 19, 2006

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **03-0415.13** issued to **Solutia Inc.** for “Vanceva Composites” dated 12/11/03, expiring on 12/11/08.
2. Notice of Acceptance No. **03-0421.04** issued to **Solutia Inc.** for “Clear or Colored Interlayer” dated 01/08/04, expiring on 05/21/06.
3. Notice of Acceptance No. **01-1204.01** issued to **E.I. DuPont DeNemours** for “Sentry Glass ® Plus” dated 01/17/02, expiring on 01/14/07.
4. Notice of Acceptance No. **01-0205.02** issued to **Solutia, Inc.** for “Saflex/ Keepsafe Maximum” dated 05/17/01, expiring on 05/21/06.

F. STATEMENTS

1. Statement letter of no financial interest, dated 11/08/05 signed and sealed by Eric S. Nielsen, P.E. **“Submitted under NOA# 00-0207.15”**
2. Statement letter of conformance, dated July 25, 2005 signed and sealed by Warren W. Schaefer, P.E.

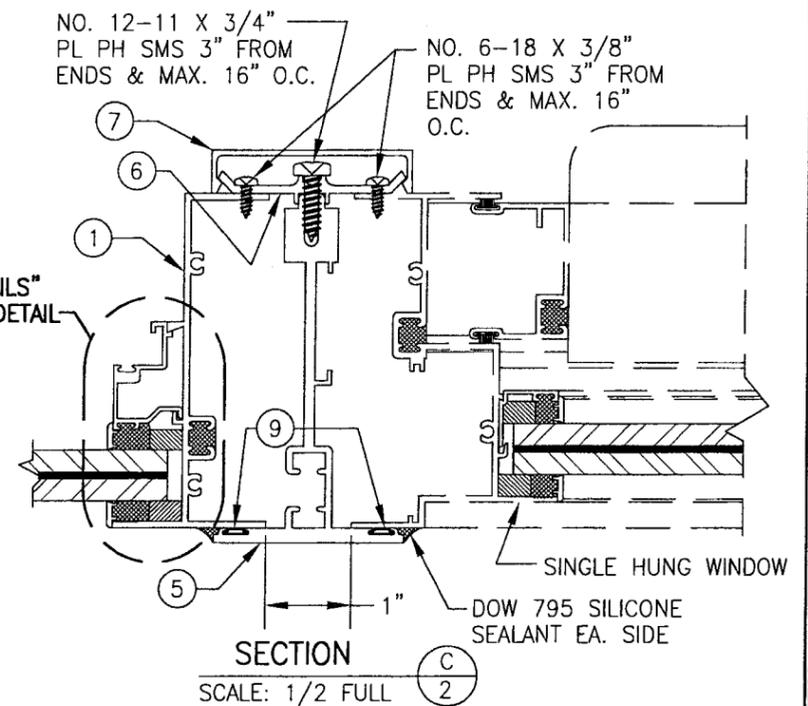
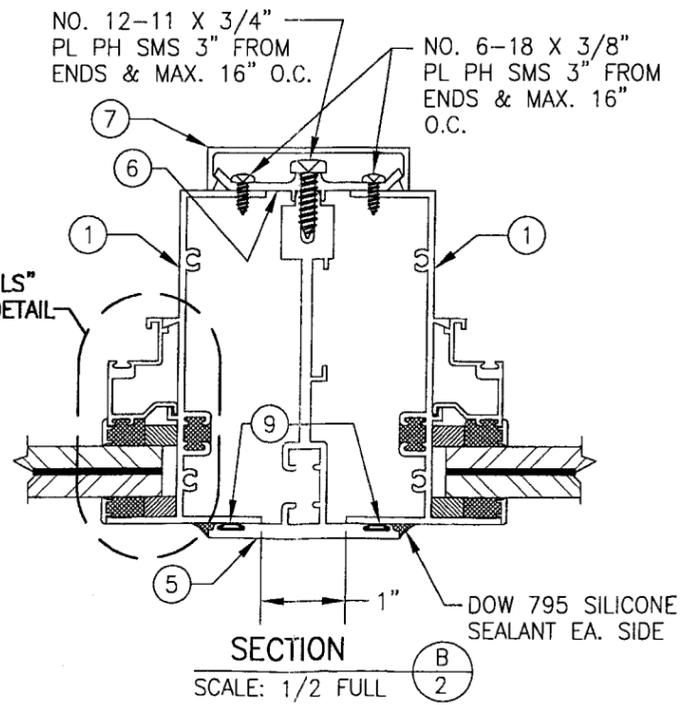
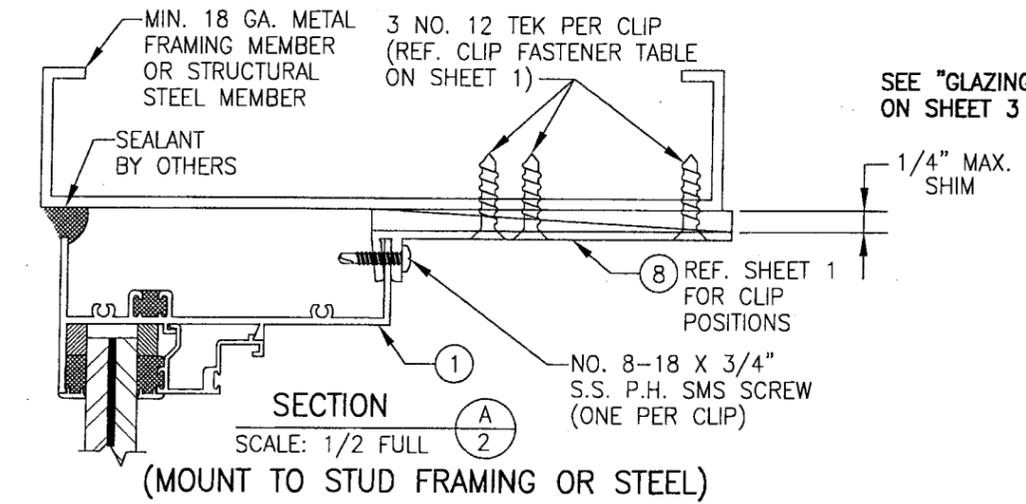
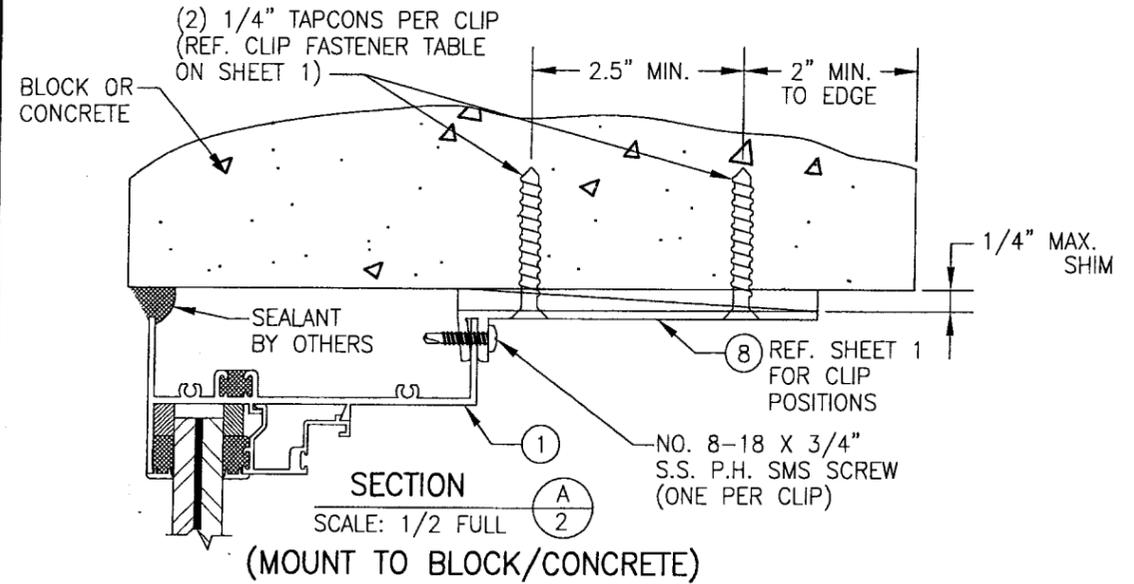
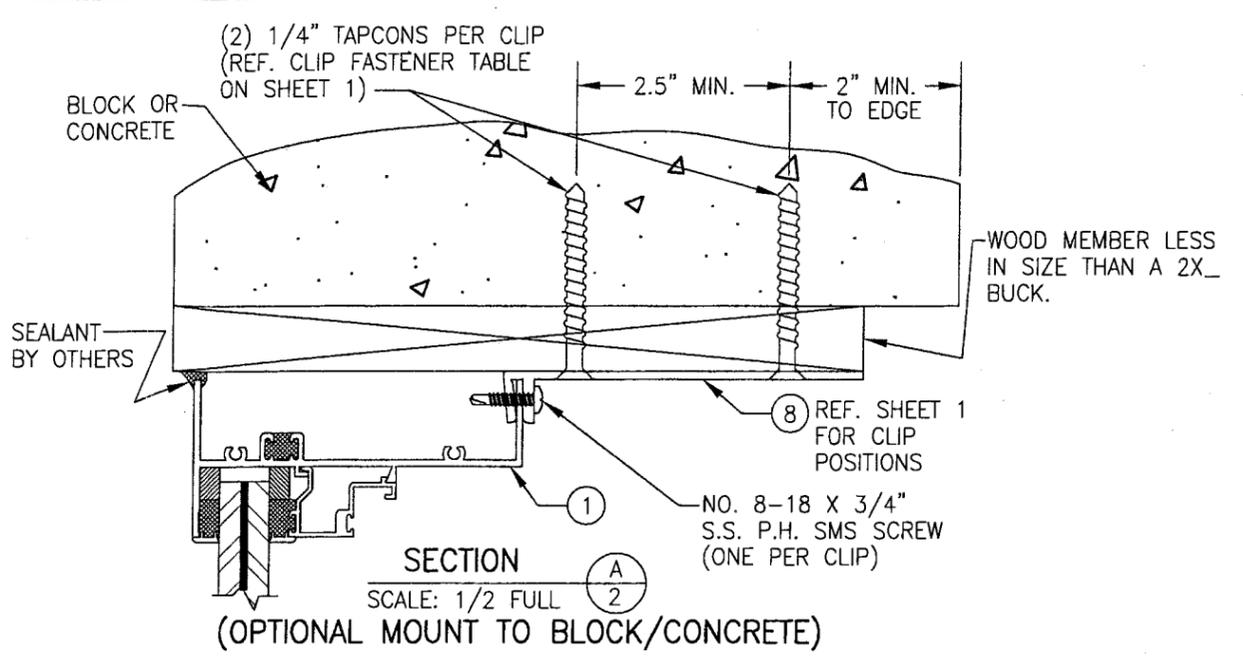
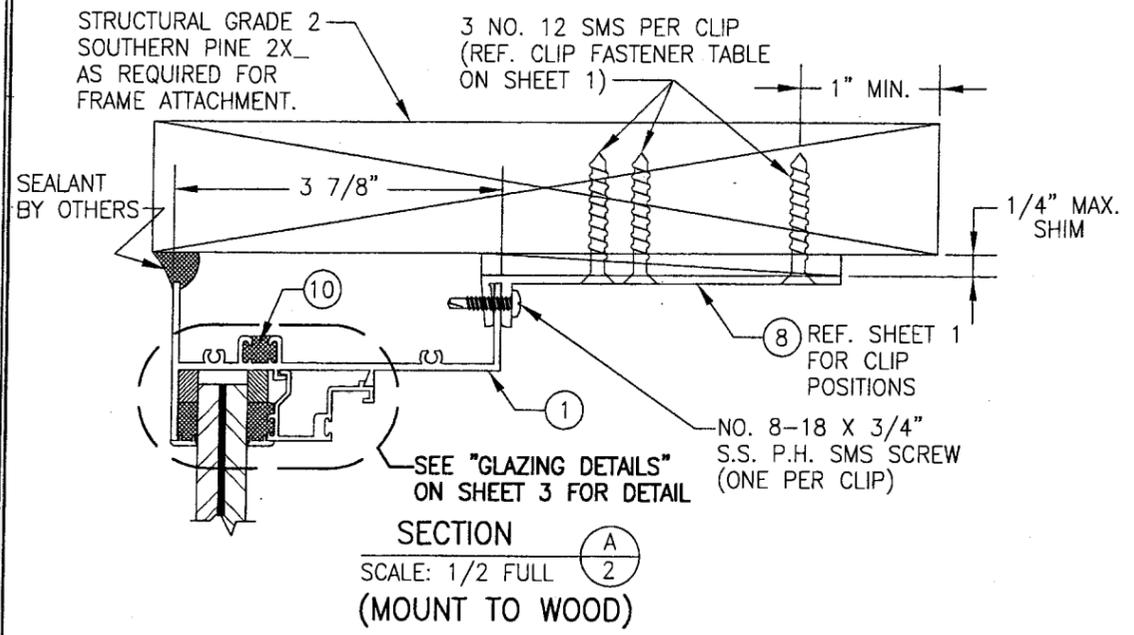
G. OTHER

1. Notice of Acceptance No. **00-0207.15**, issued to “Series 6600 Aluminum Fixed Window-Impact Resistant”, dated 10/04/01, and expiring on 10/04/06.
8/22/07.



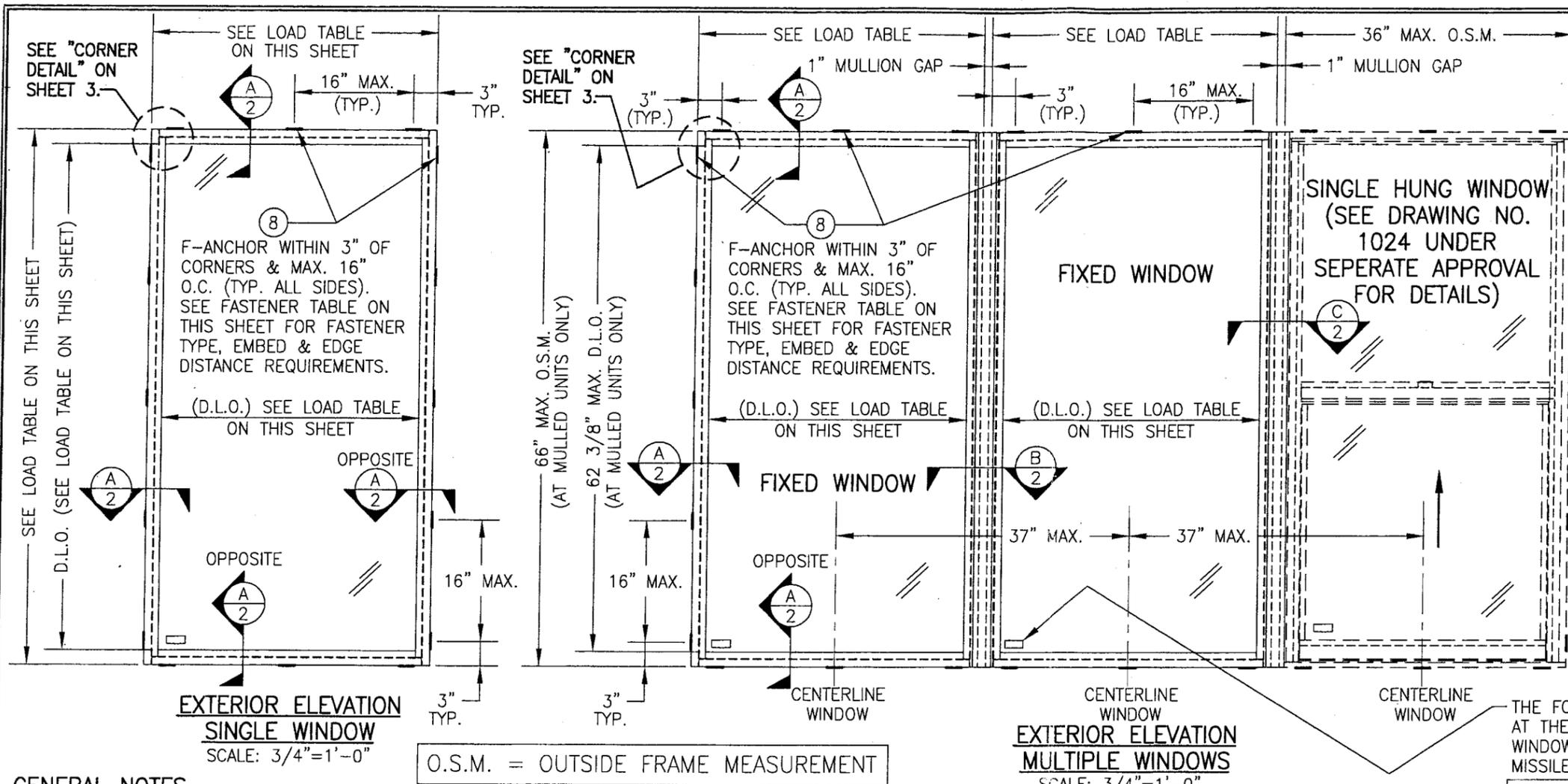
Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 05-1222.03

Expiration Date: October 04, 2011
Approval Date: September 19, 2006



PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-1222-03
 Expiration Date 10/4/06
 By *[Signature]*
 Miami-Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/06/00
REVISION DESCRIPTION	NO.
DRAWING TITLE S-6600 SMALL & LARGE MISSILE IMPACT FIXED WINDOW	
MANUFACTURER EFCO CORPORATION	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING NO. 1025	
REV. A	
SHEET NO. 2 OF 3	



PRODUCT REVISED
 as complying with the Florida Building Code
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By *Warren W. Schaefer*
 Miami-Dade Product Control Division

LARGE MISSILE GLASS "A"		SMALL MISSILE GLASS "B"	
POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
80 PSF	90 PSF	73.3 PSF	120 PSF

ALL MULLED UNITS ARE LIMITED TO MAX. 66" HEIGHT.

GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS AS DETERMINED FOR EA. APPLICATION
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 FLORIDA BUILDING CODE PROTOCOLS TAS 201, 202 & 203 FOR BOTH LARGE MISSILE IMPACT & SMALL MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HIRICANE ZONES (HVHZ).
6. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.

CLIP FASTENER REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	(2) CLIP TO OPENING FASTENER TYPE	NO. FASTENERS PER CLIP INTO SUBSTRATE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
WOOD	NO. 12 SMS SCREW	3	1 1/8"	1"
MIN. 18 GA. STUD	NO. 12 TEK SCREW	3	FULL	1/2"
STRUCT. STEEL	NO. 12 TEK SCREW	3	FULL	1/2"
CMU/CONCRETE	(1) 1/4" CONCRETE SCREW	2	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).
 (2) SEE F-ANCHOR #8 DETAIL ON SHEET 3 FOR CLIP SCREW POSITIONS WITHIN THE F-ANCHOR

MAXIMUM ALLOWABLE DESIGN LOAD & SIZE TABLE (SINGLE FIXED WINDOWS ONLY)

MAXIMUM SIZE		MAXIMUM ALLOWABLE PRESSURE (PSF)					
FRAME WIDTH	FRAME HEIGHT	WINDOW D.L.O.		LARGE MISSILE IMPACT GLASS "A"		SMALL MISSILE IMPACT GLASS "B"	
		HORIZONTAL	VERTICAL	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
24"	99"	20 3/8"	95 3/8"	80.0 PSF	90.0 PSF	73.3 PSF	120.0 PSF
27"	88"	23 3/8"	84 3/8"	80.0 PSF	90.0 PSF	73.3 PSF	120.0 PSF
30"	79"	25 3/8"	75 3/8"	80.0 PSF	90.0 PSF	73.3 PSF	120.0 PSF
33"	72"	29 3/8"	68 3/8"	80.0 PSF	90.0 PSF	73.3 PSF	120.0 PSF
36"	66"	32 3/8"	62 3/8"	80.0 PSF	90.0 PSF	73.3 PSF	120.0 PSF
40"	59"	36 3/8"	55 3/8"	72.0 PSF	81.0 PSF	73.3 PSF	108.0 PSF
44"	54"	40 3/8"	50 3/8"	65.5 PSF	73.6 PSF	73.3 PSF	98.2 PSF
48"	49"	44 3/8"	45 3/8"	60.0 PSF	67.5 PSF	73.3 PSF	90.0 PSF

GLASS "A" = 9/16" THK. LAMINATED GLASS (1/4" HT. STR./0.09" PVB/1/4" HT. STR.) BY SAFLEX (LARGE MISSILE)
 GLASS "B" = 9/16" THK. LAMINATED GLASS (1/4" HT. STR./0.06" PVB/1/4" HT. STR.) BY SAFLEX (SMALL MISSILE)

LOAD TABLE NOTE:

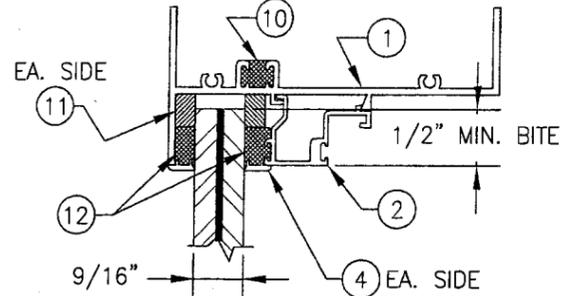
1. SMALL MISSILE IMPACT WINDOWS MAY NOT BE INSTALED AT A SILL ELEVATION LESS THAN 30 FT. ABOVE GRADE.

THE FOLLOWING LABEL SHALL BE PLACED AT THE INNER BOTTOM RIGHT CORNER OF THE WINDOW TO DISTINGUISH BETWEEN SMALL & LARGE MISSILE GLASS:

EFCO CORPORATION, MONETT MISSOURI
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
 SMALL (OR LARGE) MISSILE IMPACT UNIT

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 11/06/00
DATE: 07/25/05	BY: WWS
REVISION DESCRIPTION: CHANGED GENERAL NOTES 4 & 5 TO STATE 2004 CODE COMPLIANCE	
NO. A1	
DRAWING TITLE: S-6600 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.	8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903
CERTIFICATION: AUG 09 2006	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1025	REV. A
SHEET NO. 1	OF 3

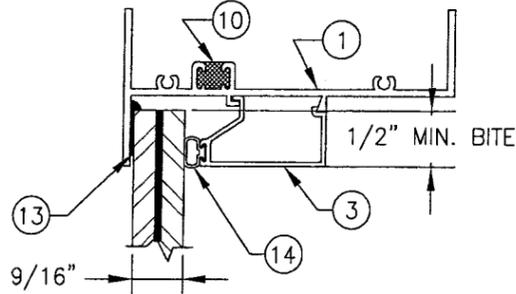
NOTE: AT SILL, TWO 1/4" SETTING BLOCKS ARE USED TO SHIM GLASS



**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

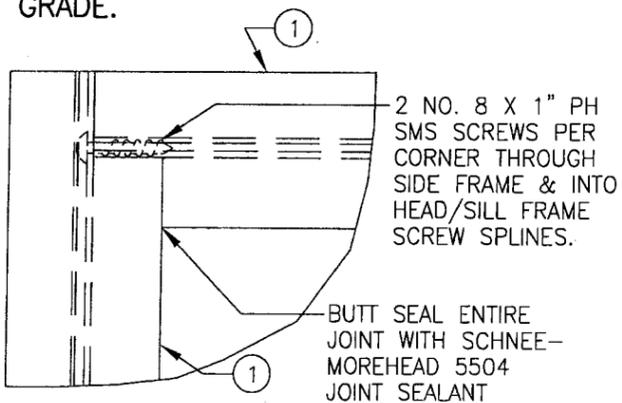
NOTE: AT SILL, TWO 1/4" SETTING BLOCKS ARE USED TO SHIM GLASS



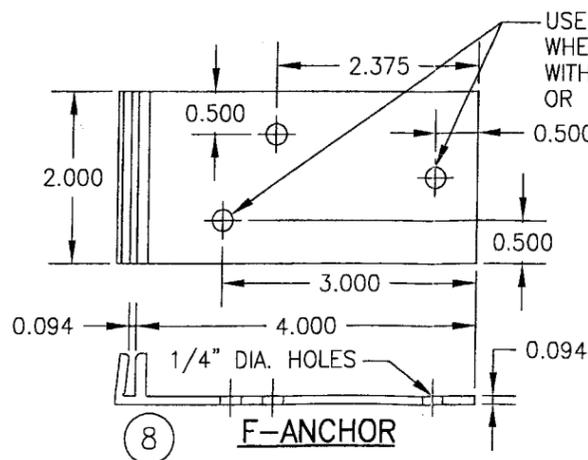
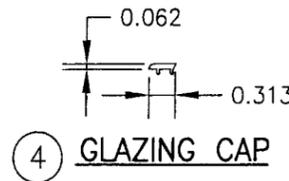
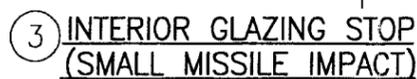
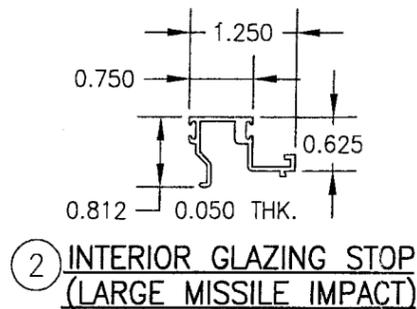
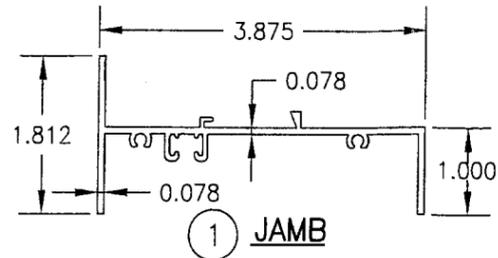
**GLAZING DETAIL
SMALL MISSILE IMPACT**

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

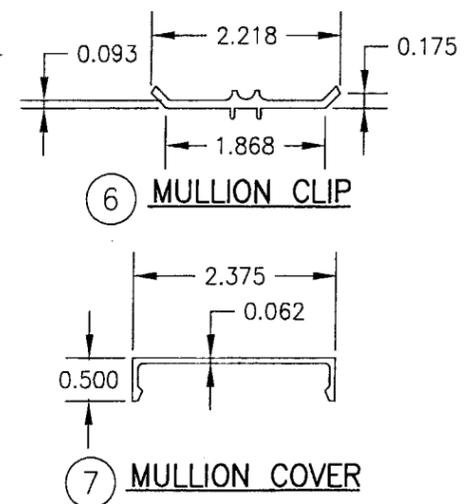
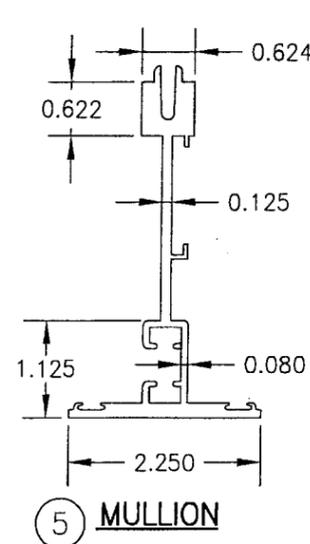
WHEN GLAZED FOR SMALL MISSILE IMPACT, THE WINDOWS MAY NOT BE INSTALLED AT SILL ELEVATIONS LESS THAN 30 FT. ABOVE GRADE.



**FRAME CORNER DETAIL
OUTSIDE VIEW**



ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	6031	JAMB/FRAME	EFCO; 6063-T6 ALUMINUM
2	2170	INT. GLAZING STOP (LG. MISSILE IMPACT)	EFCO; 6063-T6 ALUMINUM
3	EF32	INT. GLAZING STOP (SM. MISSILE IMPACT)	EFCO; 6063-T6 ALUMINUM
4	LB00	GLAZING CAP	FIBER REINFORCED NYLON
5	EG16	MULLION	EFCO; 6063-T6 ALUMINUM
6	ED25	MULLION CLIP	EFCO; 6063-T6 ALUMINUM
7	ED24	MULLION COVER	EFCO; 6063-T6 ALUMINUM
8	KA23/1880	F-ANCHOR	EFCO; 6063-T6 ALUMINUM
SEALS & SEALANTS			
9	WVB2	CONT. VINYL BULB SEAL	CENTRAL PLASTICS
10	-	FULLY INJECTED POLYURETHANE SEALANT	P.R.C.
11	-	3/16 FOAM TAPE	NORTON
12	-	DOW 995 SILICONE	DOW CORNING
13	-	DOW 795 SILICONE	DOW CORNING
14	WVB2	CONT. VINYL BULB SEAL	CENTRAL PLASTICS



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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1222.03
Expiration Date 10/4/06
By *Warren W. Schaefer*
Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/06/00
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE S-6600 SMALL & LARGE MISSILE IMPACT FIXED WINDOW	
MANUFACTURER EFCO CORPORATION	
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	
DRAWING NO. 1025	
REV. A	
SHEET NO. 3 OF 3	