



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](http://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 3014 Aluminum Sliding Glass Door w & w/o Reinforcement - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **96-1219-08**, dated 03/28/01, with revision A3 dated 10/22/03, titled "S-3014 Sliding Glass Door (Large Missile Impact)", sheets 1 through 5 of 5, 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 Renewal 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 **renews NOA # 03-1113.01** and consists of this page 1, and evidence pages E1 and E2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 05-1212.14**  
**Expiration Date: October 02, 2010**  
**Approval Date: July 13, 2006**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **96-1219-08**, dated 03/28/01, with revision A3 dated 10/22/03, titled "S-3014 Sliding Glass Door (Large Missile Impact)", sheets 1 through 5 of 5, 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 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  
6) Forced Entry Test, per SFBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of a series 3014 aluminum sliding glass door with and without reinforcement, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0046-0821-96**, dated from 08/27/96 to 10/30/96, signed and sealed by Timothy S. Marshall, P.E.  
**"Submitted under NOA# 03-1113.01"**
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
3) Large 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 a series 3014 aluminum sliding glass door with and without reinforcement, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL -0046-0418-02**, dated 06/12/03, signed and sealed by Vinu J. Abraham, P.E.  
**"Submitted under NOA# 03-1113.01"**
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
3) Large Missile Impact Test per FBC, TAS 201-94  
along with marked-up drawings and installation diagram of a series 3014 aluminum sliding glass door with and without reinforcement, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL -0046-0524-03**, dated 06/12/03, signed and sealed by Vinu J. Abraham, P.E.  
**"Submitted under NOA# 03-1113.01"**

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No 05-1212.14  
Expiration Date: October 02, 2010  
Approval Date: July 13, 2006

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 06/06/01, signed and sealed by Warren W. Schaefer, P.E. *Submitted under NOA# 03-1113.01*  
**Complies with ASTM E1300-98**
2. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by EfcO Corporation, dated 10/15/96, 6/3/97 and revised on 02/08/01, signed and sealed by Richard DiBlasi, P.E. *Submitted under NOA# 00-1031.03*

**D. QUALITY ASSURANCE**

1. Miami-Dade County Building Code Compliance Office

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **02-120503** issued to Security Impact Glass Holding L.L.C. for their "SAF-GLAS Polycarbonate Laminate" dated 01/02/03, expiring on 12/16/07.
2. Notice of Acceptance No. **00-0614.09** issued to Viracon, Inc. for their "HRG-2 Laminated Glass" dated 11/02/00, expiring on 10/16/03.

**F. STATEMENTS**

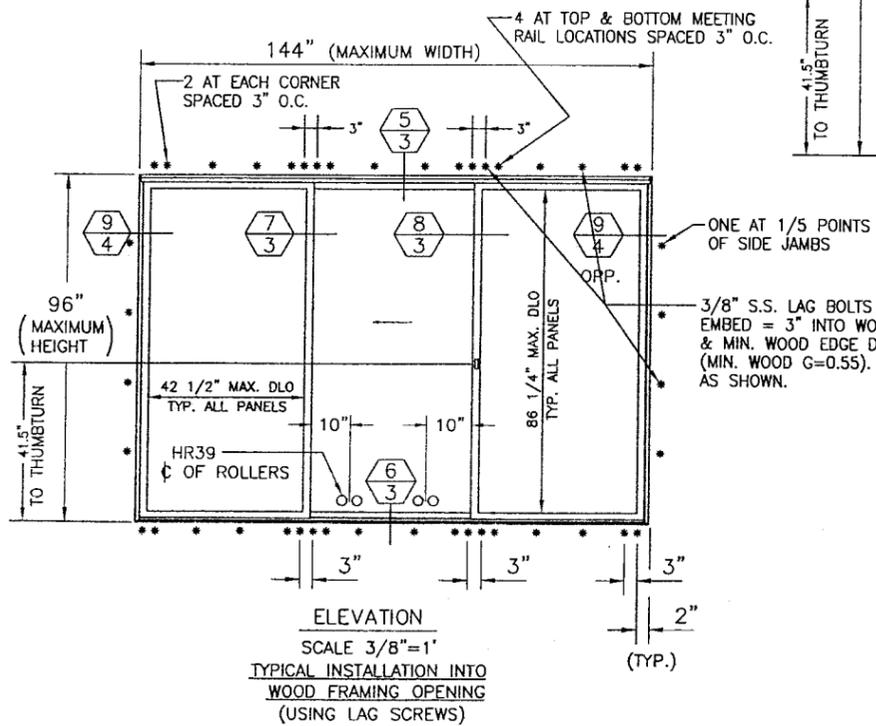
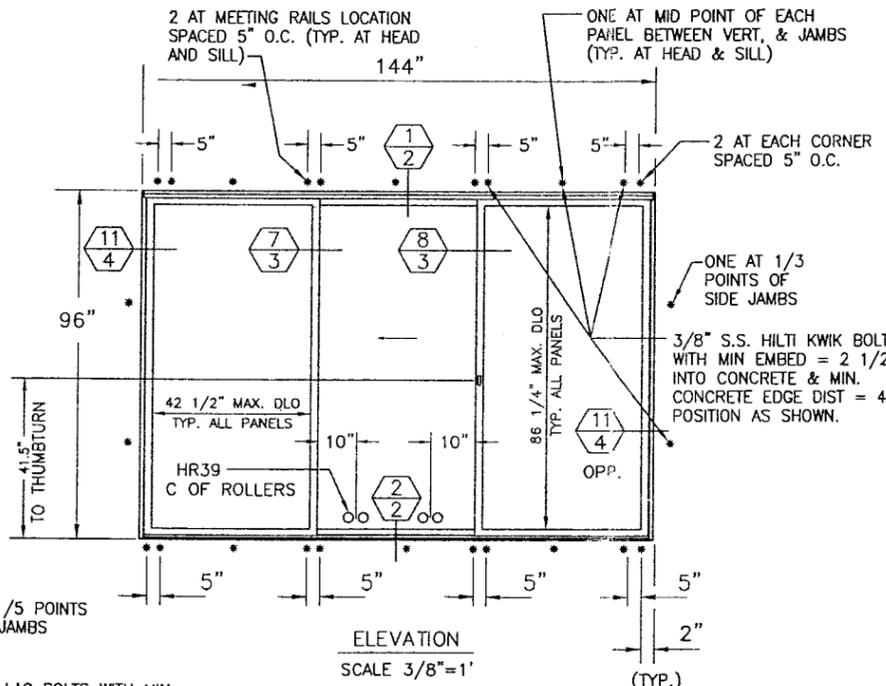
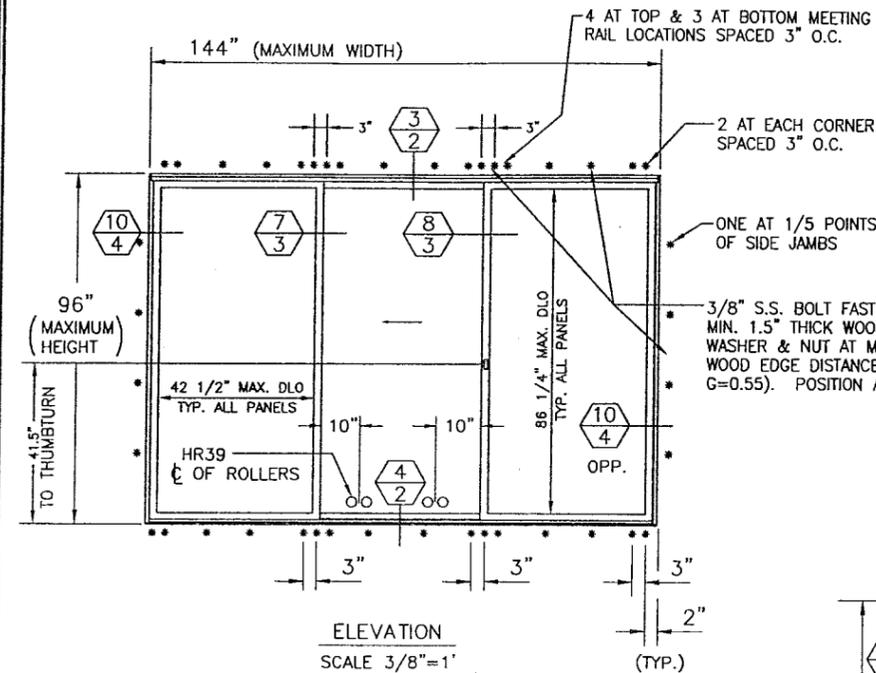
1. Statement letter of conformance, dated July 26, 2005, signed and sealed by Warren W. Schaefer, P.E.
2. Laboratory compliance letter, as part of the above referenced test reports, issued by Hurricane Test Laboratory, Inc, **HTL -0046-0418-02 and HTL-0046-0524-03**, dated 06/12/03.  
*"Submitted under NOA# 03-113.01"*

**G. OTHERS**

1. Notice of Acceptance No. **03-1113.01**, issued to EFCO Corporation for their Series 3014 Aluminum Sliding Glass Door-w & w/o Reinforcement – Large Missile Impact, approved on 01/15/04 and expiring on 10/02/05.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No 05-1212.14

Expiration Date: October 02, 2010  
Approval Date: July 13, 2006



ALLOWABLE DESIGN PRESSURE  
SEE GLAZING DETAIL &  
PRESSURE TABLE ON SHEET 5

ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	1	3200	HEAD (5.875 X 2.875 X 0.125 O/ALL)	EFCO
2	1	3201	SILL (4.456 X 4.108 X 0.125 O/ALL)	EFCO
3	2	3202	JAMB (4.456 X 1.375 X 0.08 O/ALL)	EFCO
4	2	3211	LOWER FIX PANEL RAIL (1.75 X 3.35 X 0.08 O/ALL)	EFCO
5	2	3210	LOWER SASH RAILS (1.75 X 2.671 X 0.08 O/ALL)	EFCO
6	2	3209	UPPER SASH RAILS (1.75 X 1.823 X 0.08 O/ALL)	EFCO
7	1	3204	SASH MEET. RAILS (2.002 X 4.299 X 0.125 O/ALL)	EFCO
8	1	3170	FIXED PANEL MEET RAIL (2.189 X 2.174 X 0.15 O/ALL)	EFCO
9	12	3765	GLAZ. BEAD (0.608 X 0.938 X 0.08 O/ALL)	EFCO
10	AS REQD		3/8" SILICONE GLAZING DOW CORNING 995	DOW
11	3	HBB1	JAMB CAMS	ENGINEERED POLYMERS
12	3	STC6	#6-18 x 3/8" PL TH SMS	
13	1	3178	FIXED PANEL CLIP	EFCO
14	1	3179	THRESHOLD	EFCO
15	1	3182	HEAD CLOSURE	EFCO
16	1	3150	HEAD CLOSURE	EFCO
17	1	3151	HEAD CLOSURE	EFCO
18	1	HSQ2	SOBINCO HARDWARE	BRONZE CRAFT
19	2	HR39	SASH ROLLERS	REFLECTOLITE
20	4	SFQ2	#6-18 x 1/2" PL FH SMS	
21	1	HSQ3	SOBINCO THUMBTURN	BRONZE CRAFT
22	4	MFG3	#10-24 x 1 3/4" PL OH	
23	AS REQD	WF02	TRI-SEAL WSTP	ULTRAFAB
24	AS REQD	WM76	0.25 X 0.5 POLYURETHANE GLAZING TAPE	TREMCO
25	1 PAIR	HO68	FRAME GASKET (HEAD)	REED RUBBER
26	1 PAIR	HO69	FRAME GASKET (SILL)	REED RUBBER
27	4	LB32	SASH GUIDES	CENTRAL PLASTICS
28	40	SLQ3	#8-18 x 1 1/4" PL PH	
29	AS REQD		SILICONE GE 1200	DOW CORNING
30	7	MTU1	#10-24 x 3/8" PL TH	
31	1	3184	SUBSILL (4.831 X 0.625 X 0.125 O/ALL)	EFCO
32	1	3896	KEEPER	EFCO
33	1	3897	HARDWARE HOUSING	CENTRAL PLASTICS
34	1	HB12	SASH STOP 6" LENGTH	
35	6	STK5	#10-16 x 3/4" PL PH TEK	
36	1	3171	MEET. RAIL CLOSURE	EFCO
37	2	IQS1	HOLE PLUGS (3/8")	HEYCO
38	1	WNA1	ARROW SHIM	TREMCO
39	4	SFP1	#10-12 x 1" PL FH	
40	1	3208	SASH SIDE RAIL 3.348 X 4.75 X 0.08 O/ALL	EFCO
41	1	3205	MEETING RAIL (2.315 X 4.456 X 0.125 O/ALL)	EFCO
42	1	3937	MEET RAIL CLOSURE (0.615 X 1.924 X 0.125 O/ALL)	EFCO

ALTERNATE LOCK HARDWARE: "SASH CONTROL" LOCK ASSEMBLY PART #HSS5 & KEEPER PART #HSTO

NOTE: FRAME AND DOOR MATERIAL ARE ALUMINUM 6063-T6  
FRAME CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.  
SASH CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.

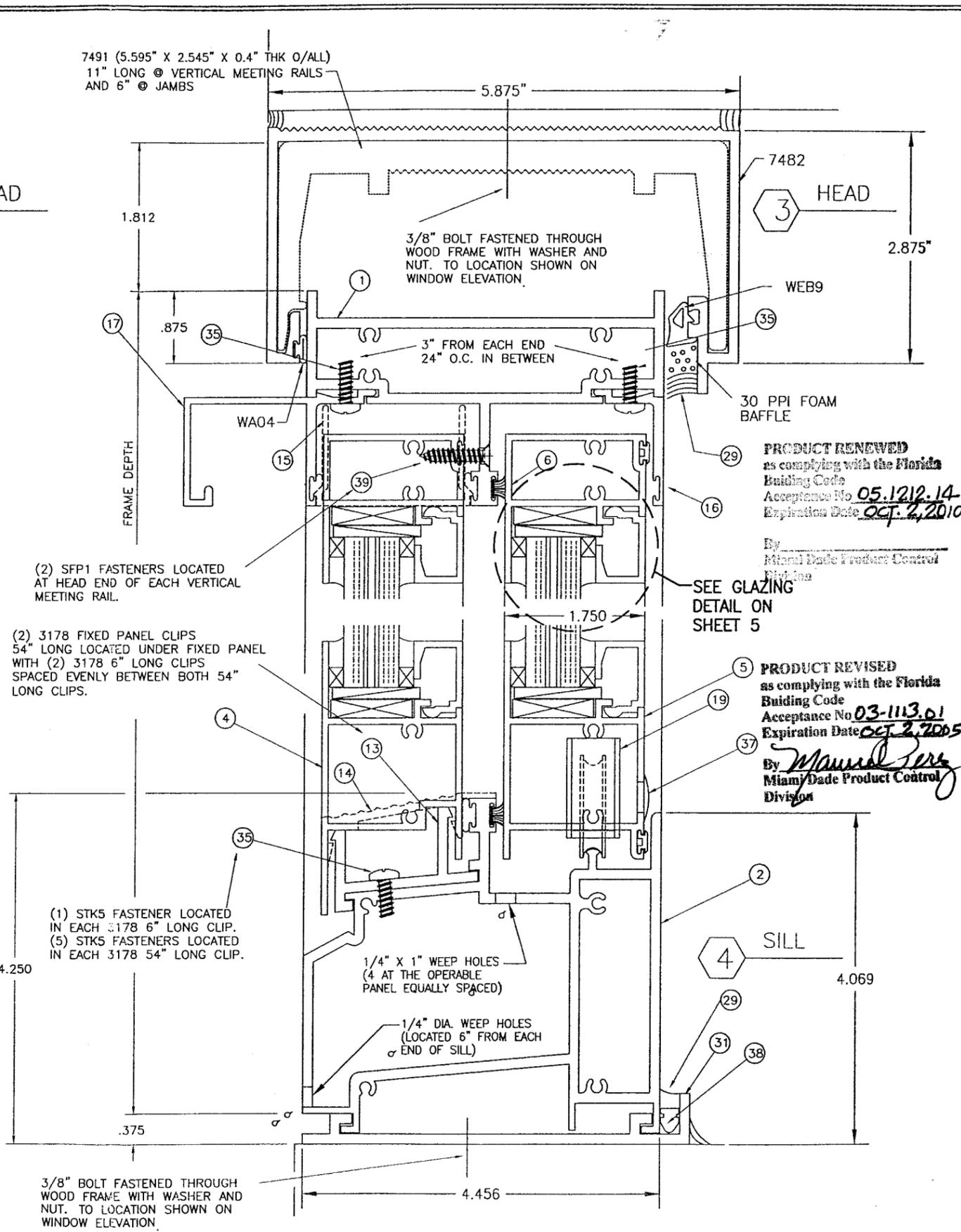
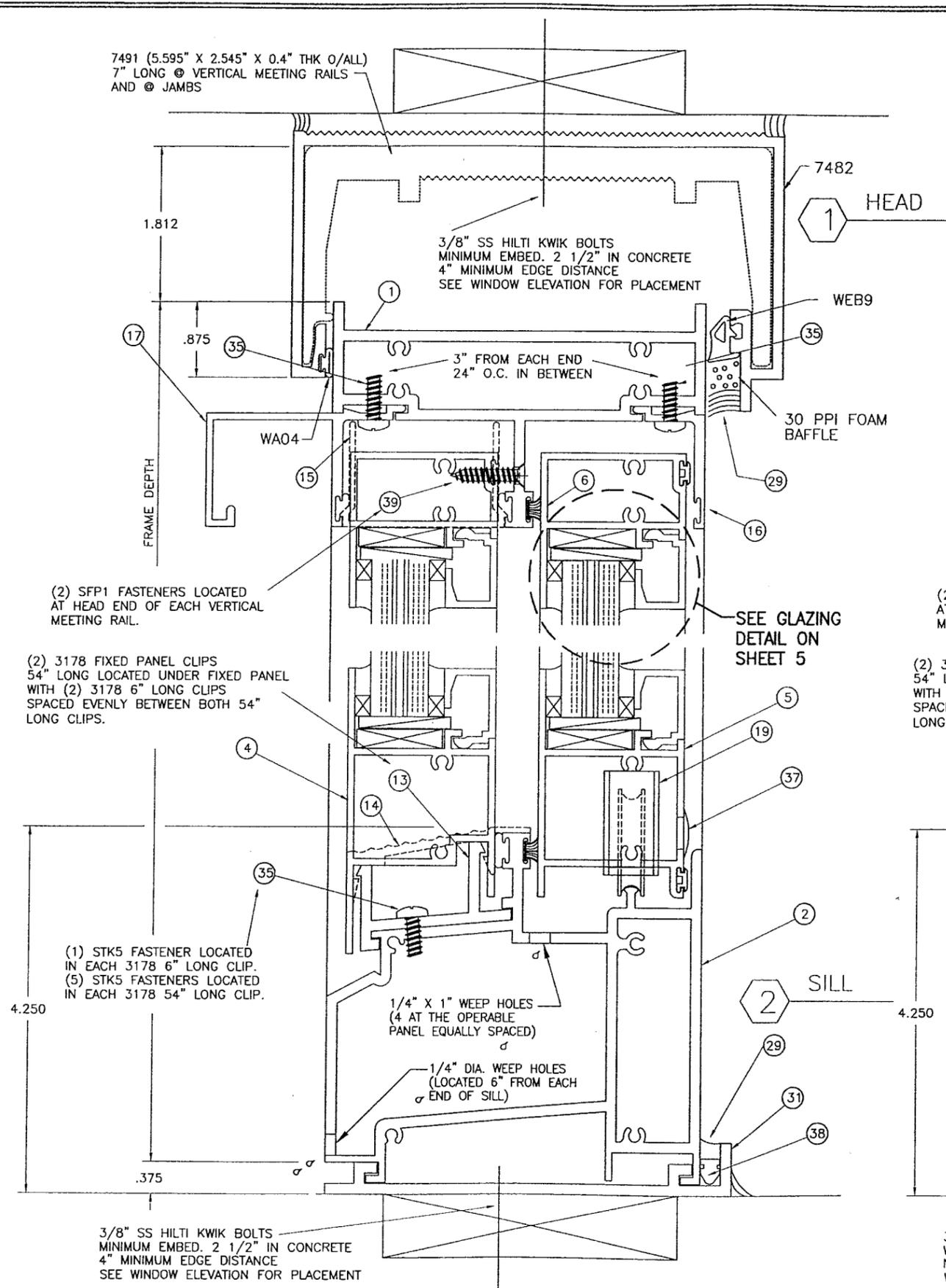
PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No. 05-1212-14  
Expiration Date OCT. 2, 2010  
By *Manuel Jerez*  
Miami Dade Product Control Division

PRODUCT REVISED  
as complying with the Florida Building Code  
Acceptance No. 03-1113-01  
Expiration Date OCT. 2, 2005  
By *Manuel Jerez*  
Miami Dade Product Control Division

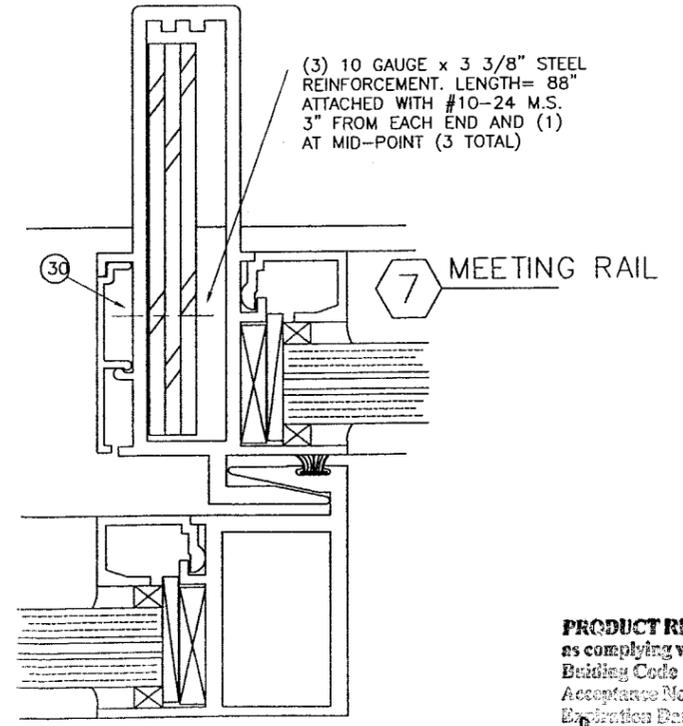
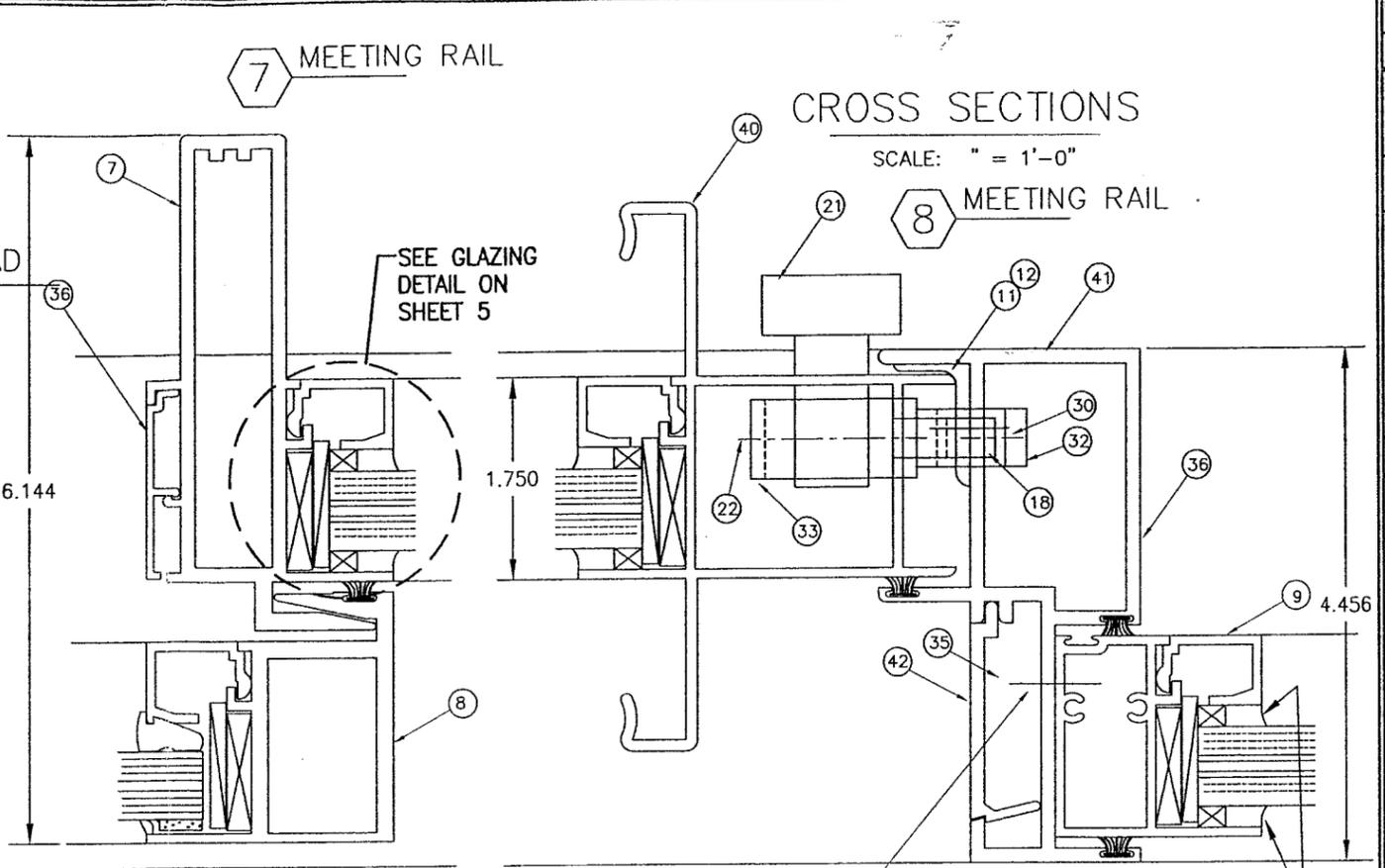
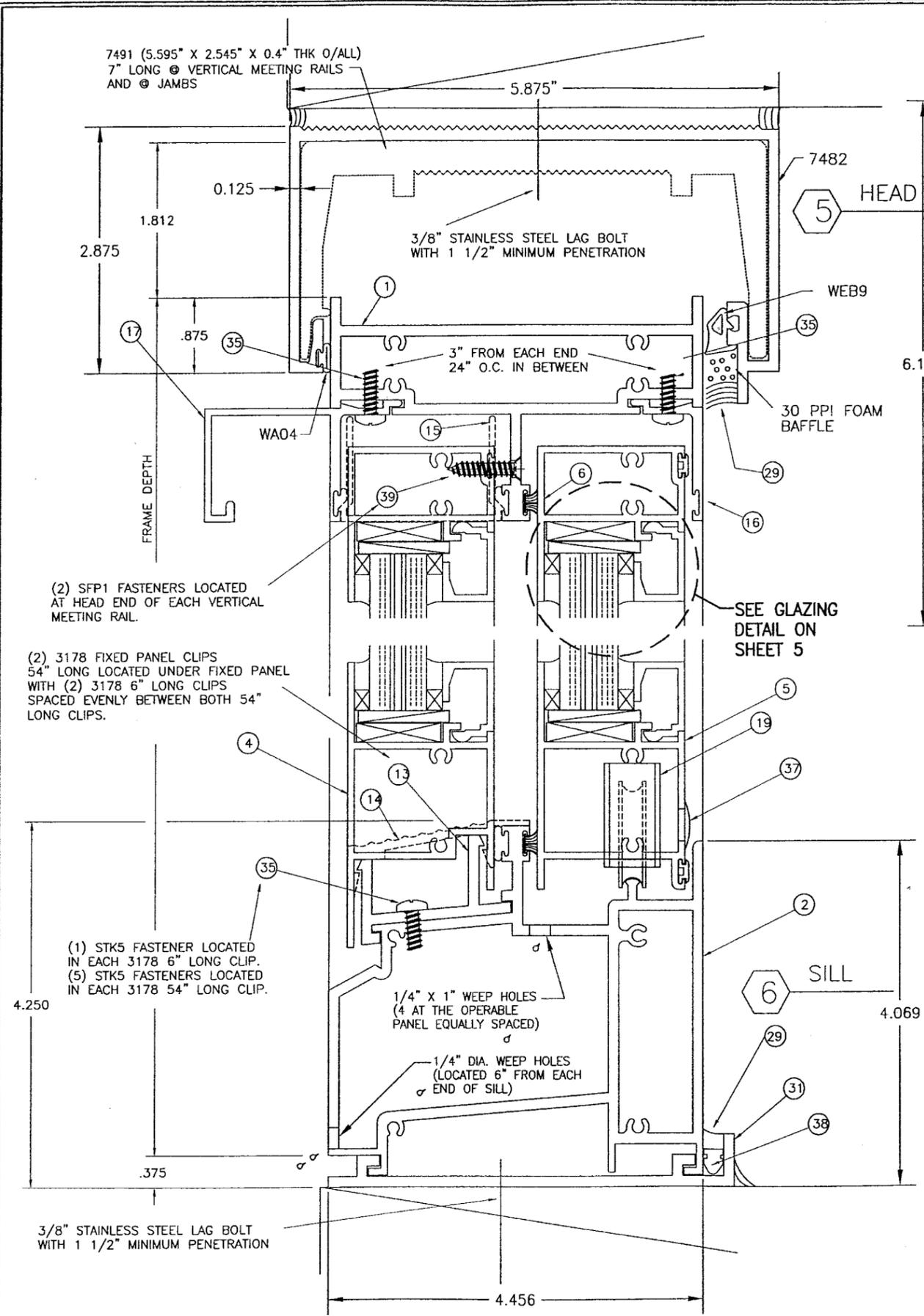
W.W. SCHAEFER JOB NO. 1042

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DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
DATE: 10/22/03	DATE: 03/28/01
NO.:	REVISION DESCRIPTION:
A1	ADDED ALT. LOCK HARDWARE
A2	REVISED PRESSURE TABLE
A3	ADDED GLAZING DETAIL & GLASS TYPES "B" & "C"
DRAWING TITLE: S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT)	
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	
MANUFACTURER: EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION: OCT 28 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 96-1219-08	REV. A
SHEET NO. 1 OF 5	



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 03/28/01
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT)</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4803	MANUFACTURER <b>EFCO CORPORATION</b> 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169
CERTIFICATION <b>OCT 28 2003</b>	REV. NO. 5
DRAWING NO. <b>98-1219-08</b>	REV. <b>A</b>
SHEET NO. <b>2 OF 5</b>	



CROSS SECTIONS

SCALE: " = 1'-0"

DRAWN BY:	W.W.S.	CHECKED BY:	W.W.S.
PLOT:	1=1.5	DATE:	03/28/01
NO.		REVISION DESCRIPTION	
BY		DATE	

DRAWING TITLE: S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT)

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: OCT 28 2003  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

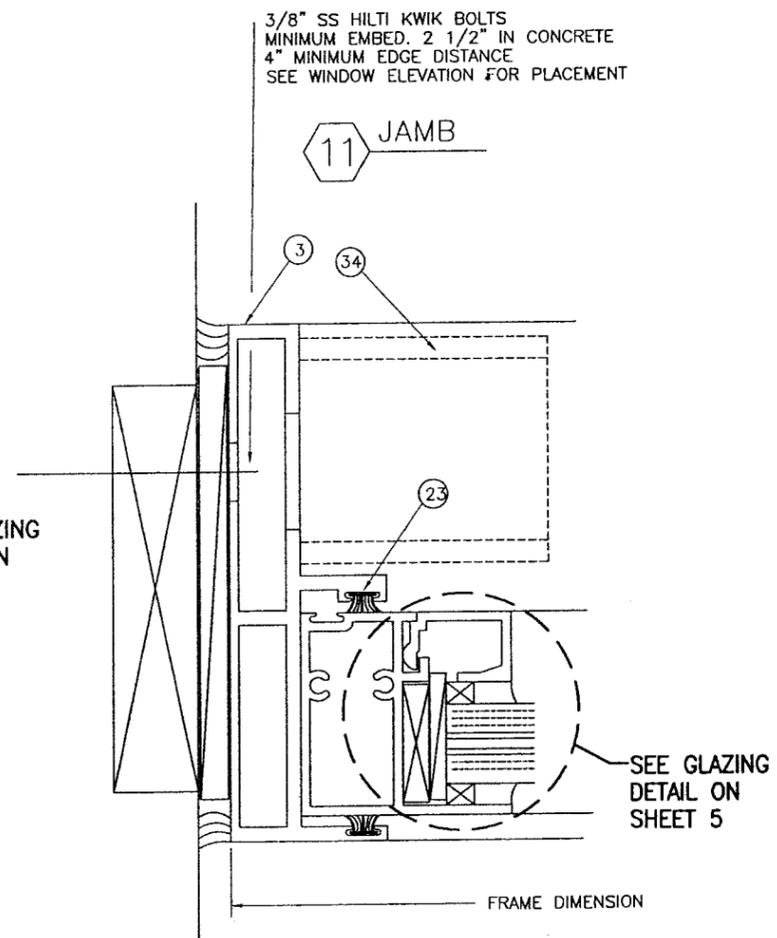
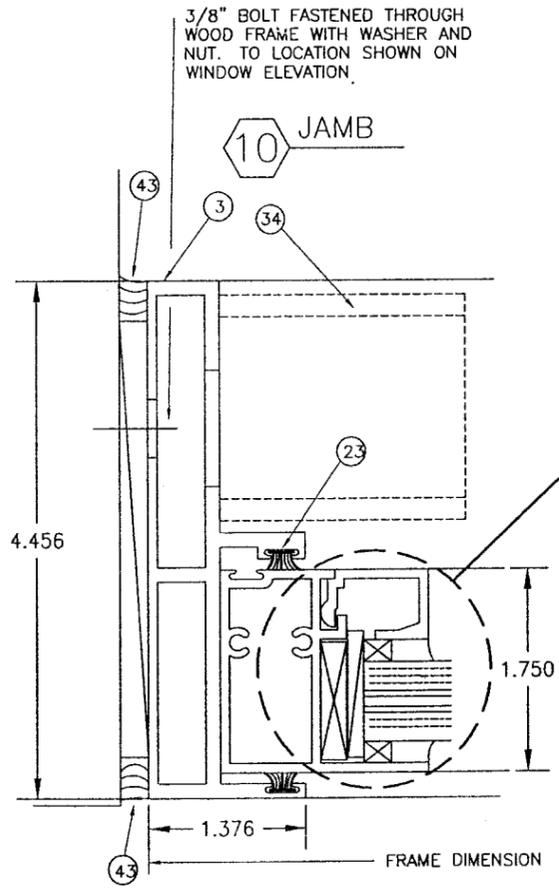
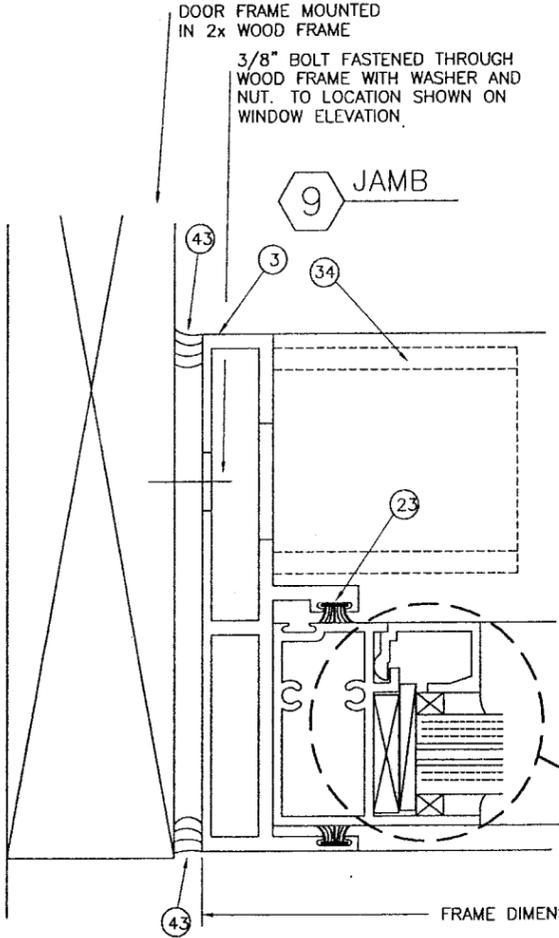
PRODUCT RENEWED as complying with the Florida Building Code  
 Acceptance No. 05-1212.14  
 Expiration Date OCT 2, 2010  
 By: *Manuel Perez*  
 Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 03-1113.01  
 Expiration Date OCT 2, 2005  
 By: *Manuel Perez*  
 Miami Dade Product Control Division

W.W. SCHAEFER JOB NO. 1042

DRAWING NO.	96-1219-08	REV.	A
SHEET NO.	3	OF	5

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 03/28/01
NO.	REVISION DESCRIPTION
BY	DATE



DRAWING TITLE: S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT)

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

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

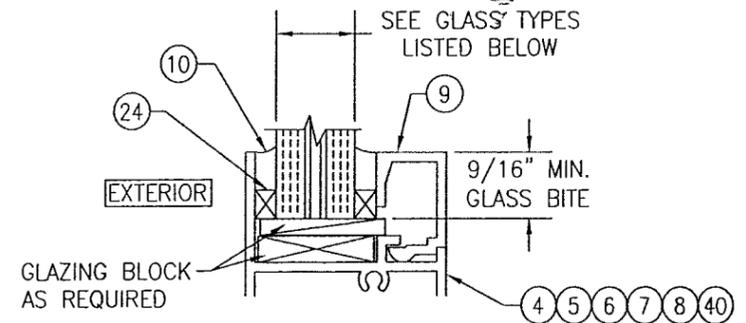
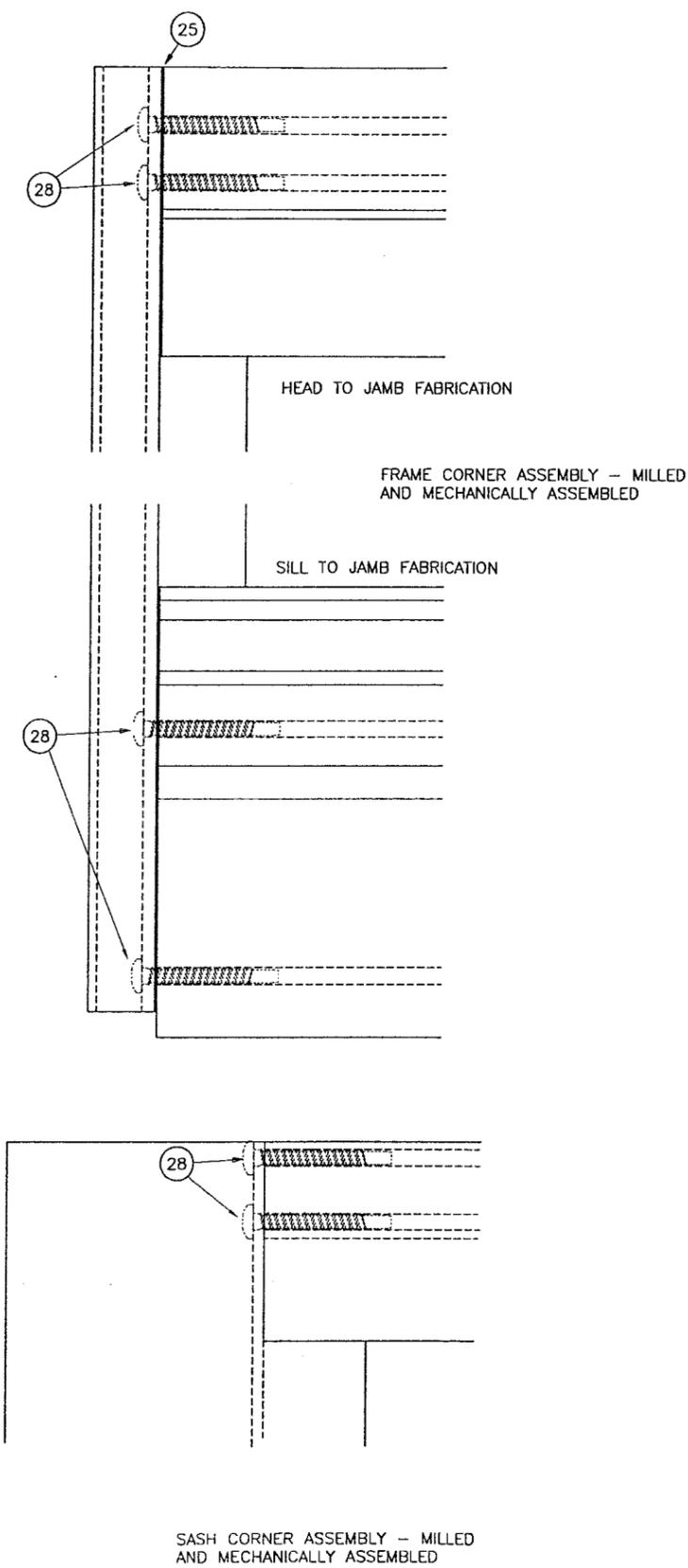
**PRODUCT RENEWED**  
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 By *Manuel Perez*  
 Miami Dade Product Control  
 Division

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-1113.01  
 Expiration Date OCT. 2, 2005  
 By *Manuel Perez*  
 Miami Dade Product Control  
 Division

CERTIFICATION  
 OCT 28 2003

WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44153

DRAWING NO. 96-1219-08  
 SHEET NO. 4 OF 5



**GLAZING DETAIL**

- GLASS "A" 5/8" TEMPERED VIRACON HRG-2 LAMINATED GLASS (1/4" TEMPERED/0.05" POLYURETHANE/0.08" POLYCARBONATE/0.05" POLYURETHANE/1/4" TEMPERED)
- GLASS "B" 7/16" ANNEALED SECURITY "SAF-GLAS" LAMINATED GLASS (3/16" A.N./0.015" ALIPHATIC URETHANE/0.070" POLYCARBONATE/0.015" ALIPHATIC URETHANE/3/16" A.N.)
- GLASS "C" 7/16" HEAT STRENGTHENED SECURITY "SAF-GLAS" LAMINATED GLASS (3/16" HT. ST./0.015" ALIPHATIC URETHANE/0.070" POLYCARBONATE/0.015" ALIPHATIC URETHANE/3/16" HT. ST.)

**ALLOWABLE DESIGN PRESSURE TABLE**

GLASS TYPE	MAX. D.L.O. HEIGHT (IN.)	MAX. D.L.O. WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)			
			WITHOUT REINFORCEMENT		(2) WITH REINFORCEMENT	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
A	86.25	42.5	55.0	55.0	100.0	100.0
		36.5	54.7	54.7	54.7	54.7
		30.5	55.0	55.0	74.1	74.1
		24.5	55.0	55.0	100.0	100.0
B	74.25	42.5	48.5	48.5	48.5	48.5
		36.5	55.0	55.0	59.9	59.9
		30.5	55.0	55.0	79.8	79.8
		24.5	55.0	55.0	100.0	100.0
	70.25	42.5	51.2	51.2	51.2	51.2
		36.5	55.0	55.0	62.1	62.1
		30.5	55.0	55.0	82.9	82.9
		24.5	55.0	55.0	100.0	100.0
C	86.25	42.5	55.0	55.0	85.7	85.7
		36.5	55.0	55.0	100.0	100.0
	74.25	42.5	55.0	55.0	97.0	97.0
		36.5	55.0	55.0	100.0	100.0
70.25	42.5	55.0	55.0	100.0	100.0	

(1) D.L.O. = DAY LIGHT OPENING OF DOOR PANELS.  
 (2) REINFORCEMENT CONSISTS OF MEETING RAIL REINFORCEMENT AS SHOWN IN SECTION 7 ON SHEET 3.

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 05-1212-14  
 Expiration Date OCT 2, 2010  
 By *Manuel Sere*  
 Miami Dade Product Control Division

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 03-1113-01  
 Expiration Date OCT 2, 2005  
 By *Manuel Sere*  
 Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.	PLOT: 1=1.5	DATE: 03/28/01
DATE	BY	REVISION DESCRIPTION	NO.
S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT) MANUFACTURER <b>EFCO CORPORATION</b> 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169			
DRAWING TITLE		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 <b>96-1219-08</b>	
CERTIFICATION <b>OCT 28 2003</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		REV. <b>A</b>	
SHEET NO.		OF	
5		5	