



**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)

**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-Large Missile Impact 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 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 # 00-1031.03** 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 03-1113.01
Expiration Date: October 02, 2005
Approval Date: January 15, 2004
Page 1**

EFCO Corporation

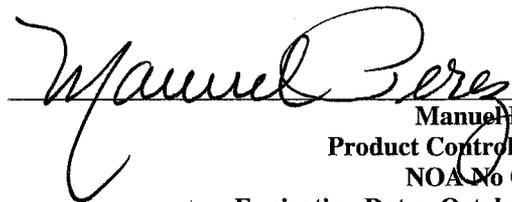
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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 TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 3) Water Resistance Test, per TAS 202-94
 - 4) Large Missile Impact Test per SFBC, TAS 201-94,
 - 5) Cyclic Wind Pressure Loading per SFBC, TAS 203-94
 - 6) Forced Entry Test, per SFBC 3603.2 (b) and TAS 202-94along 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.
2. Test reports on
 - 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 2) Forced Entry Test, per SFBC 3603.2 (b) and TAS 202-94
 - 3) Large Missile Impact Test per FBC, TAS 201-94
 - 4) Cyclic Wind Pressure Loading per SFBC, TAS 203-94along 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# 00-1031.03*
3. Test reports on
 - 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 2) Cyclic Wind Pressure Loading per SFBC, TAS 203-94
 - 3) Large Missile Impact Test per FBC, TAS 201-94along 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# 00-1031.03*


Manuel Perez, P.E.
Product Control Examiner
NOA No 03-1113.01

Expiration Date: October 02, 2005
Approval Date: January 15, 2004

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. 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***
2. 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# 00-1031.03***

D. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office

E. MATERIAL CERTIFICATIONS

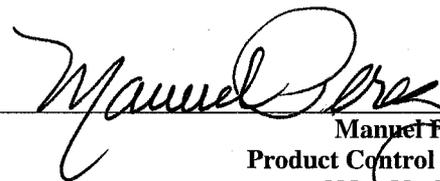
1. Notice of Acceptance No. **02-120503** issued to Security Impact Glass Holding L.L.C. for their "SAF-GLAS Polycarbonate Laminate" dated 01/02/03, expiring on 12/16/07.

F. STATEMENTS

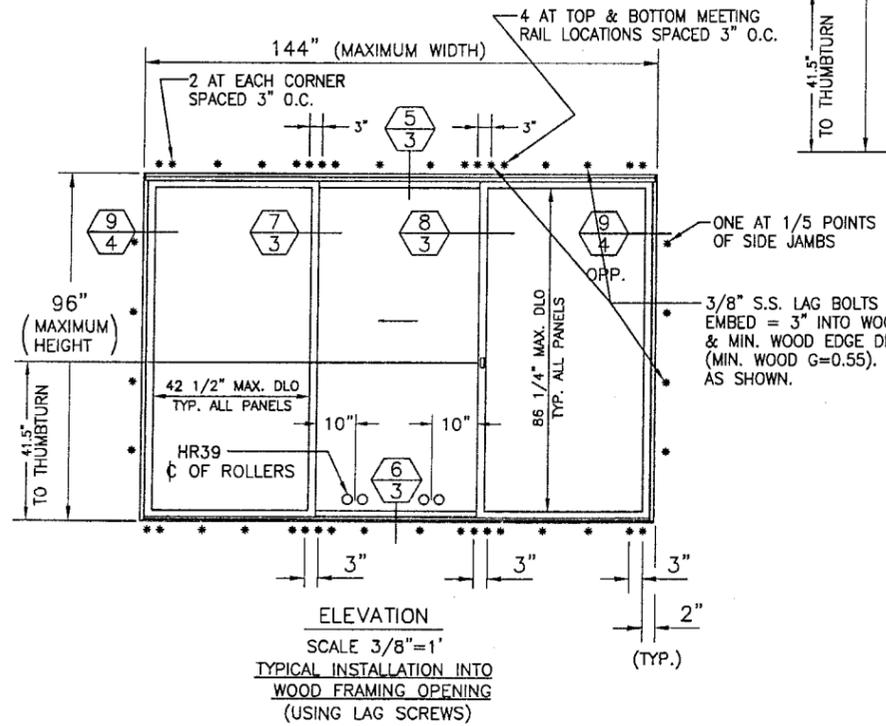
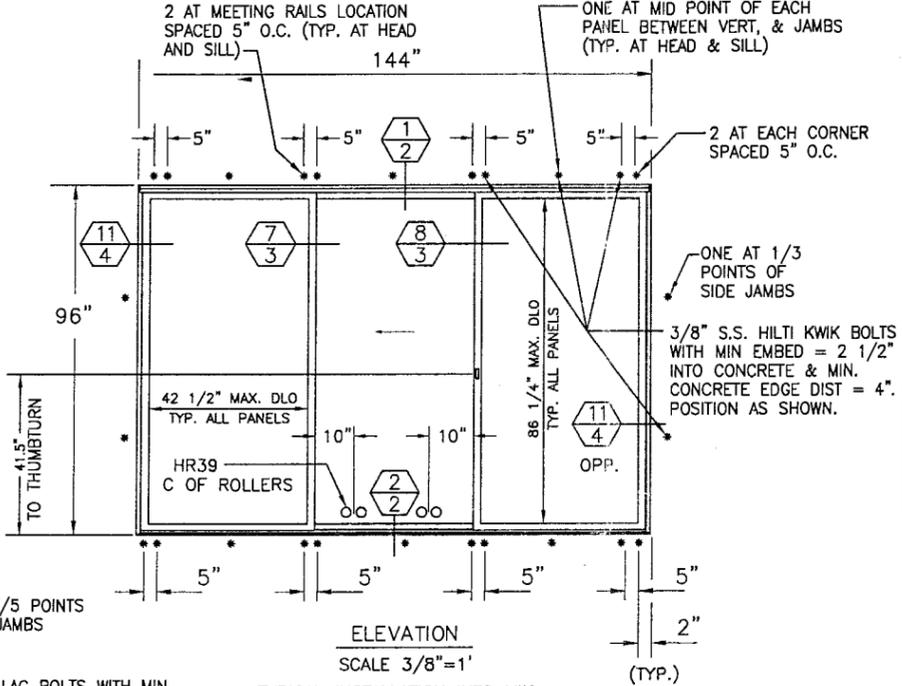
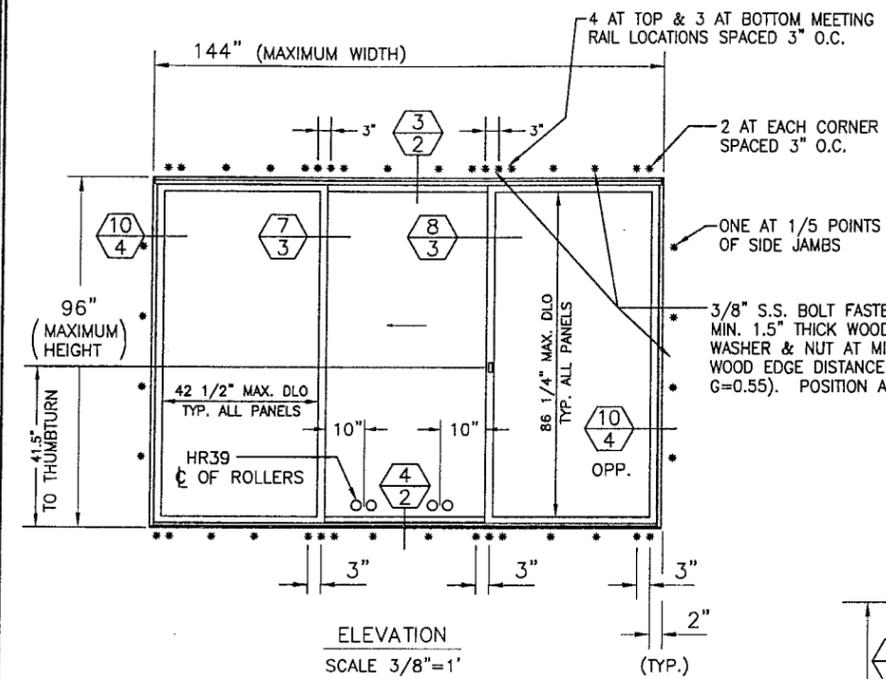
1. Laboratory compliance letter, as part of the above referenced test reports, issued by Hurricane Test Laboratory, Inc, **HTL -0046-0418-02 and HTL-0046-0524-03**, dated 06/12/03.

G. OTHERS

1. Letter from the consultant stating that the product is in compliance with Florida Building Code (FBC).
2. Notice of Acceptance No. **00-1031.03**, issued to EFCO Corporation for their Series 3014 Aluminum Sliding Glass Door-w & w/o Reinforcement – Large Missile, approved on 07/05/01 and expiring on 10/02/05.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 03-1113.01
Expiration Date: October 02, 2005
Approval Date: January 15, 2004



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	WFO2	TRI-SEAL WSTP	ULTRAFAB
24	AS REQD	WM76	0.25 X 0.5 POLYURETHANE GLAZING TAPE	TREMCO
25	1 PAIR	HO68	FRAME GASKET (HEAD)	RED RUBBER
26	1 PAIR	HO69	FRAME GASKET (SILL)	RED 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	
34	1	HB12	SASH STOP 6" LENGTH	CENTRAL PLASTICS
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 REVISED
as complying with the Florida
Building Code
Acceptance No. 03-1113.01
Expiration Date OCT 3, 2005
By *Manuel Jerez*
Miami Dade Product Control
Division

DRAWN BY: W.W.S. CHECKED BY: W.W.S.
PLOT: i=1.5 DATE: 03/28/01

REVISION DESCRIPTION BY DATE
A1 ADDED ALT. LOCK HARDWARE KPS 10/22/03
A2 REVISED PRESSURE TABLE KPS 10/22/03
A3 ADDED GLAZING DETAIL & GLASS TYPES "B" & "C" KPS 10/22/03

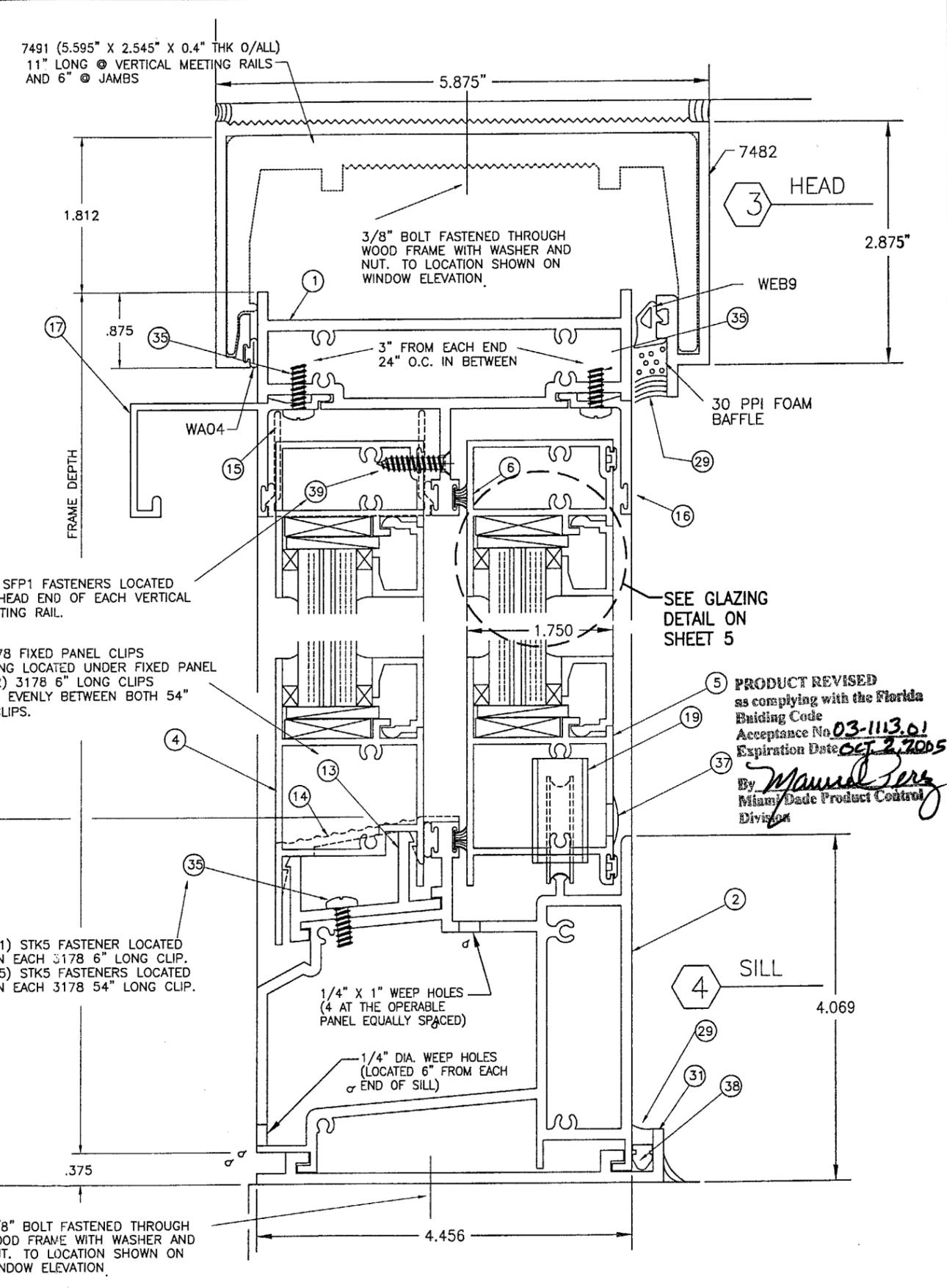
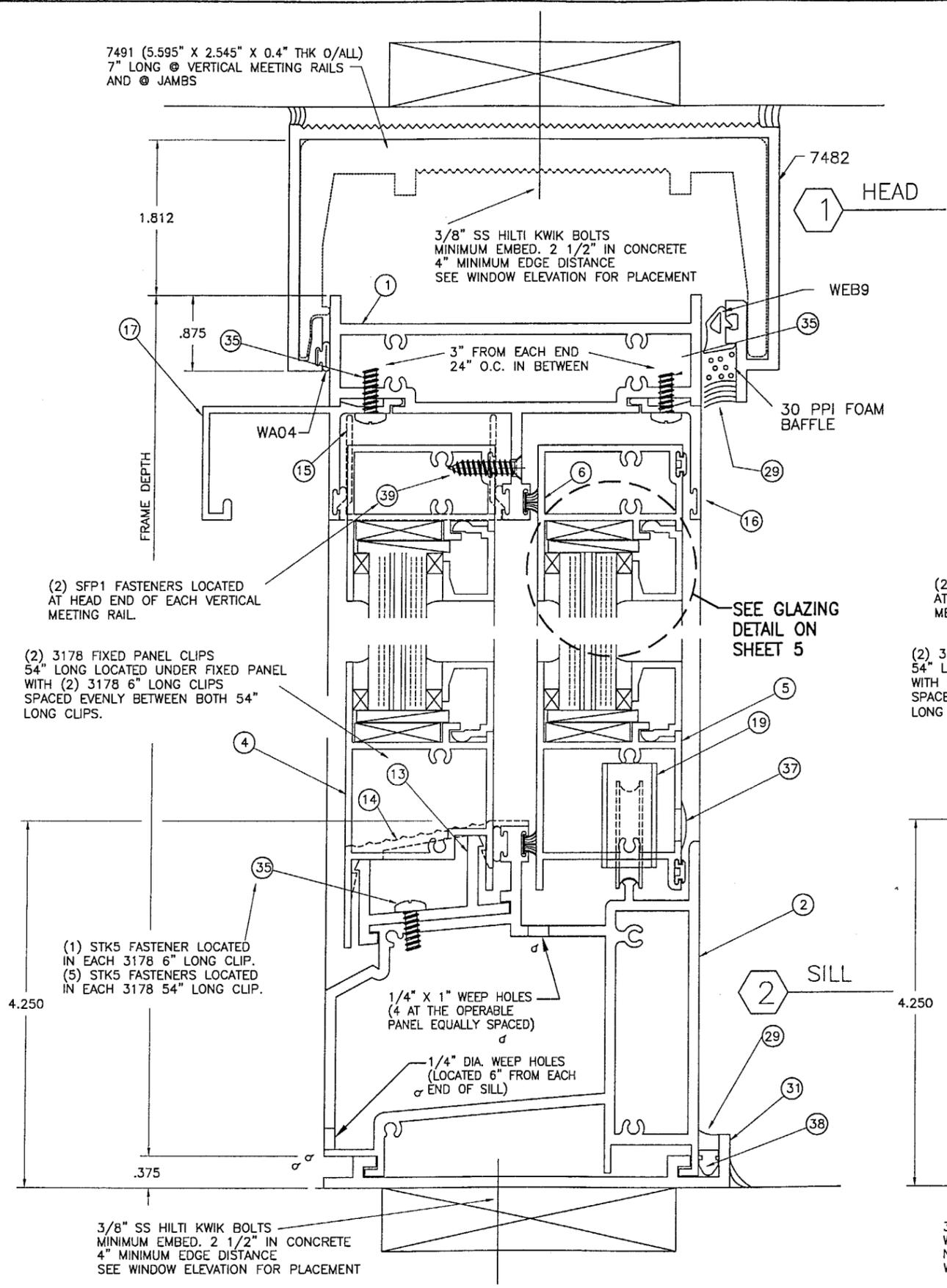
DRAWING TITLE: S-3014 SLIDING GLASS DOOR (LARGE MISSILE IMPACT)

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.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION: OCT 28 2003

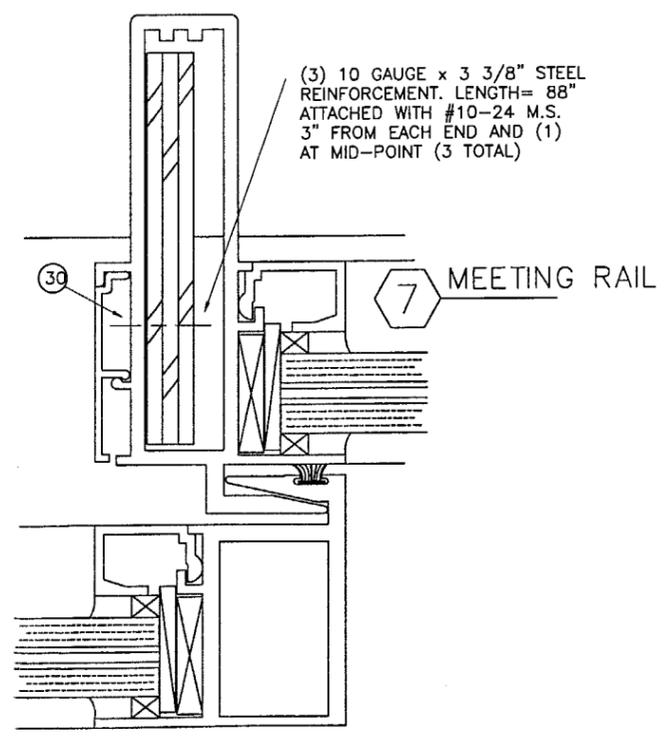
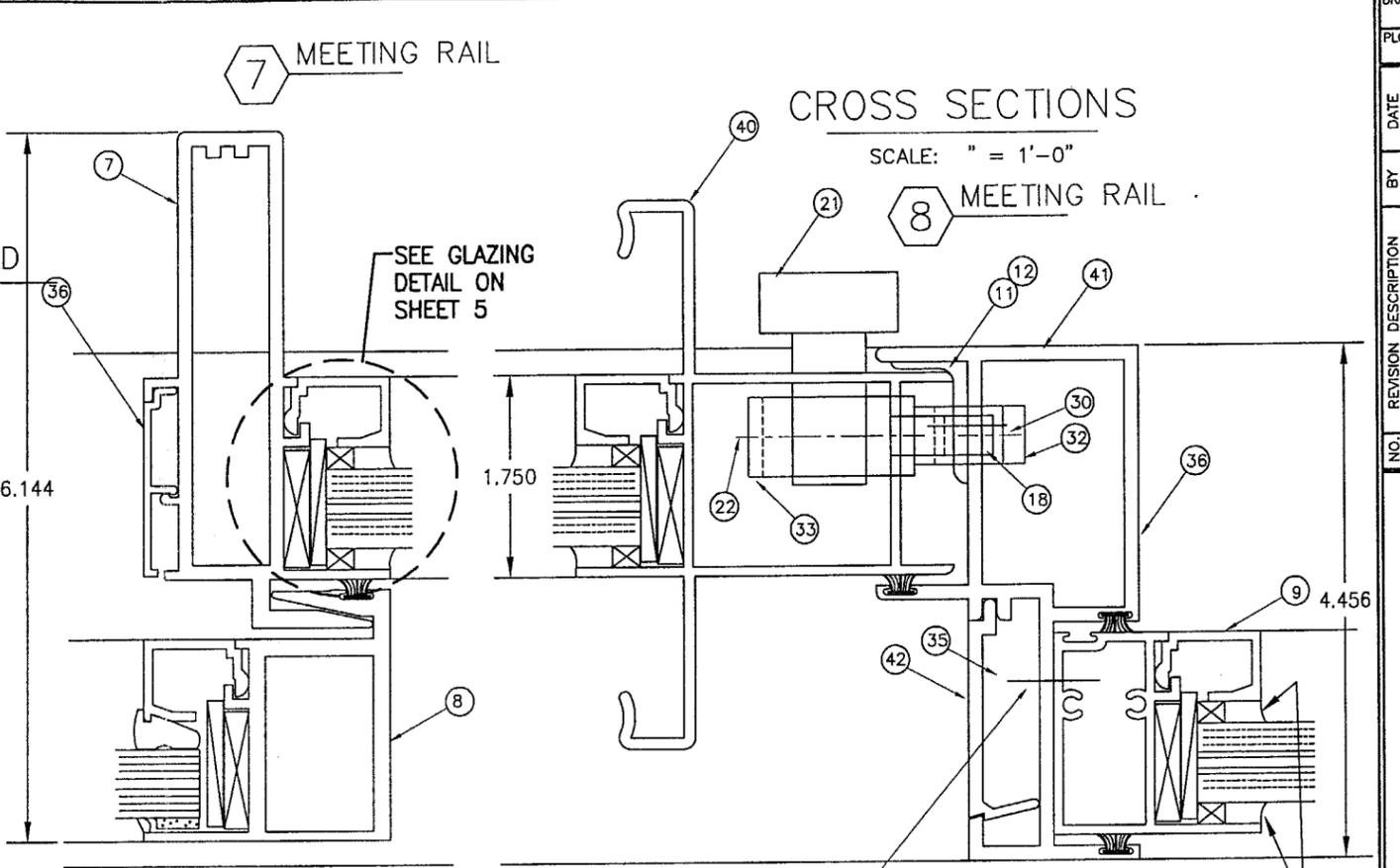
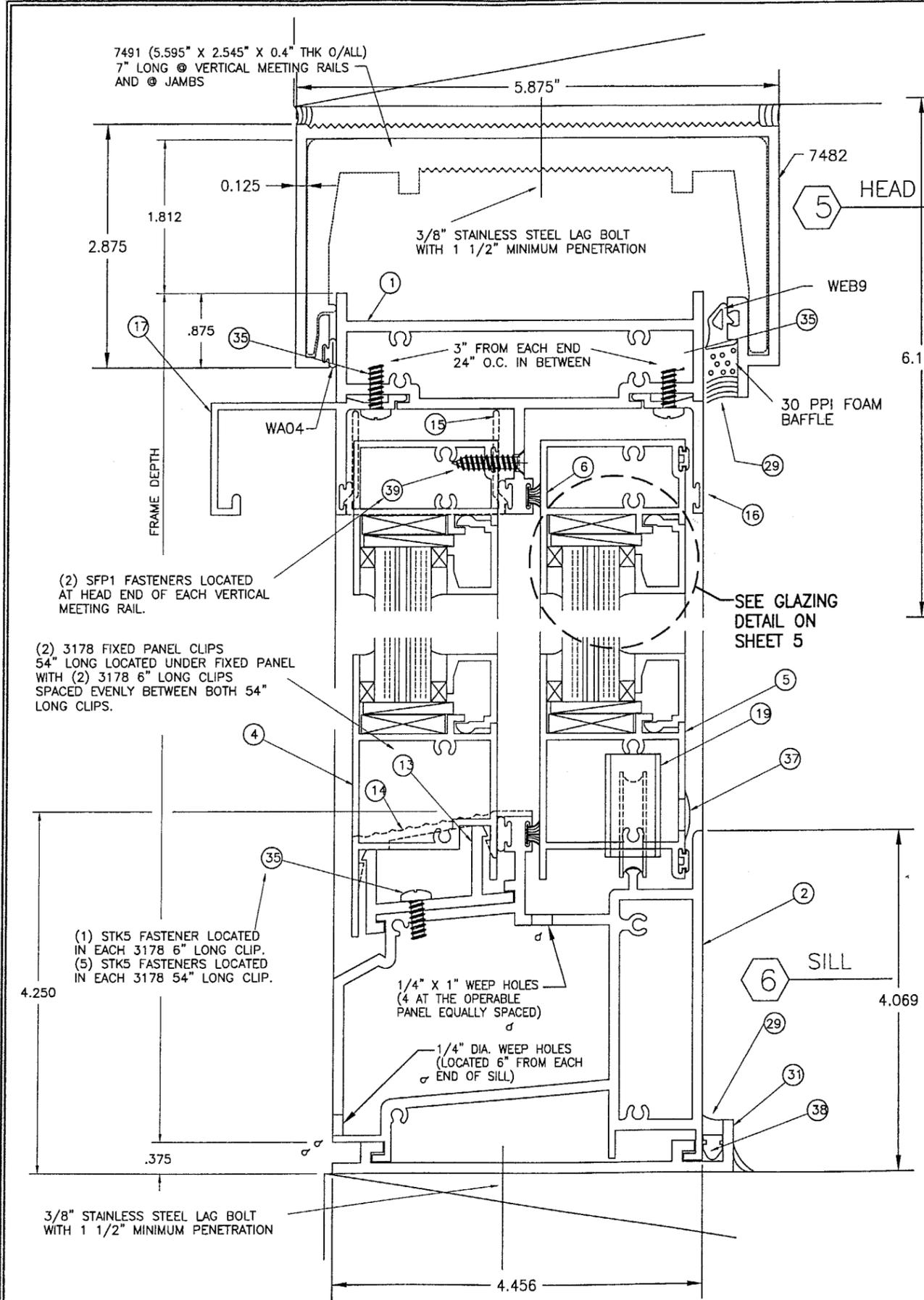
DRAWING NO. 96-1219-08 REV. A
SHEET NO. 1 OF 5



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=1.5		DATE: 03/28/01	
DATE	BY	REVISION	DESCRIPTION
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			
DRAWING NO. 98-1219-08		REV. A	
SHEET NO. 2 OF 5			

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

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



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **03-1113.01**
Expiration Date **07-2-2005**

By *Mauro Torres*
Miami Dade Product Control
Division

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.**
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
OCT 28 2003

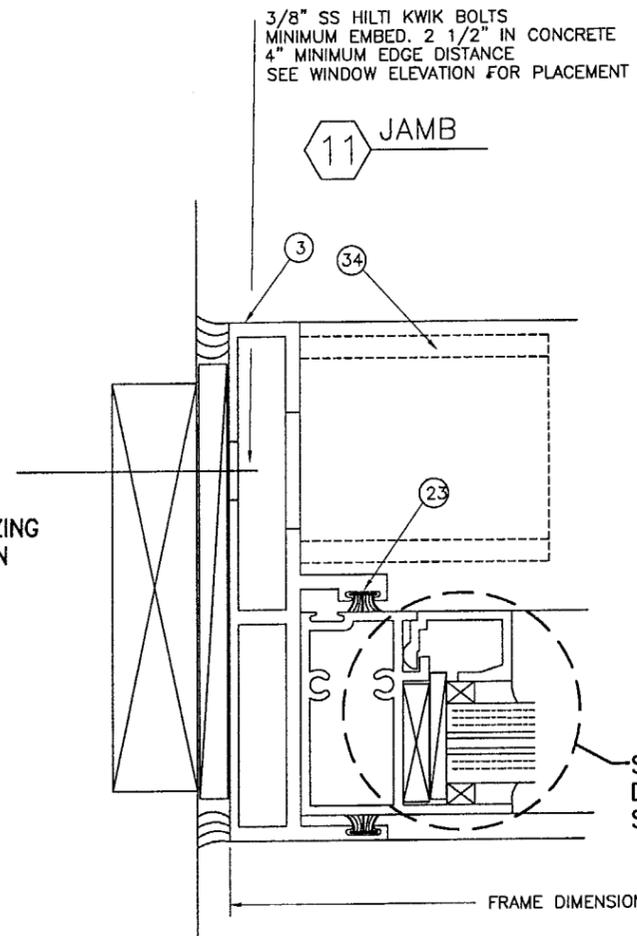
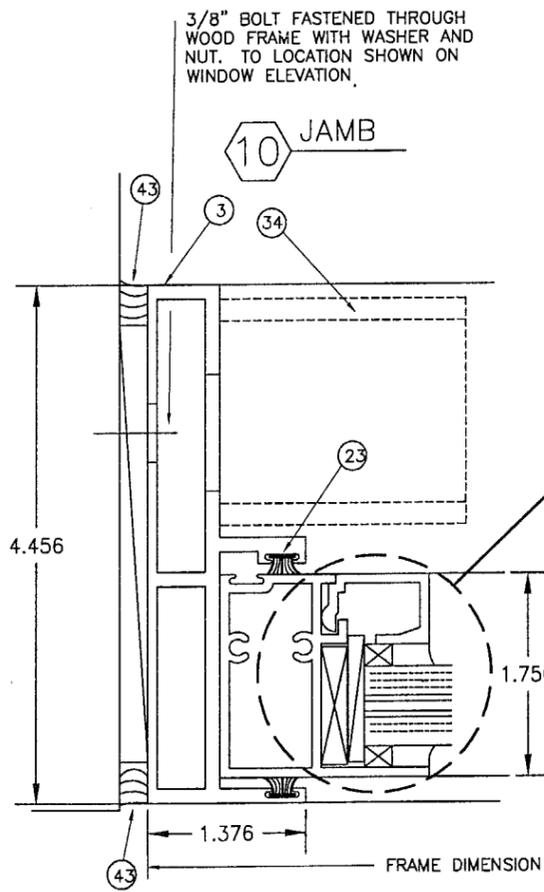
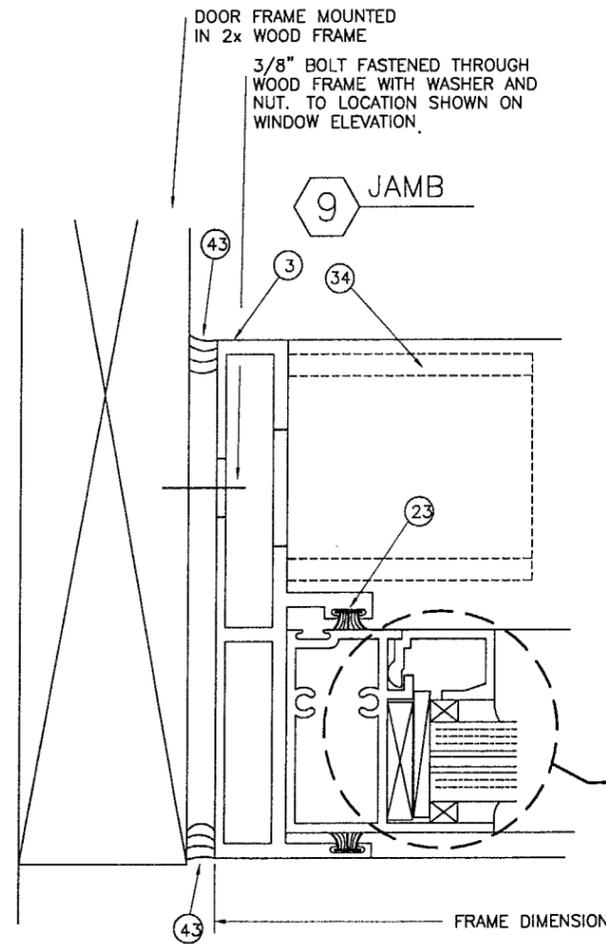
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

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)

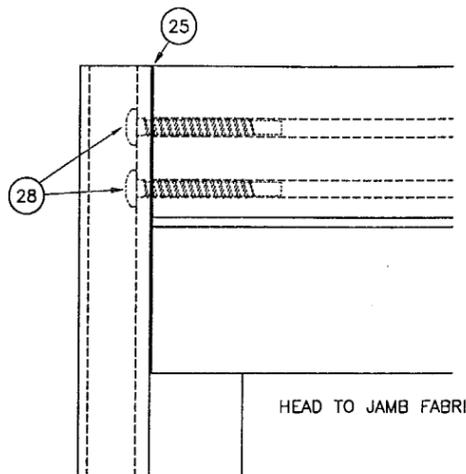
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

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

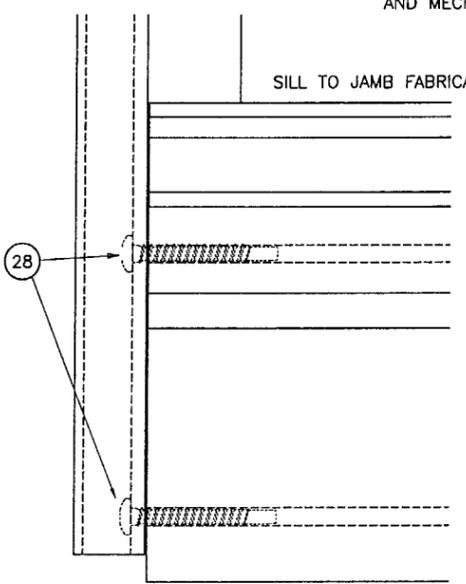
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-1113.01
 Expiration Date Oct. 3, 2005

By *Manuel...*
 Miami Dade Product Control
 Division

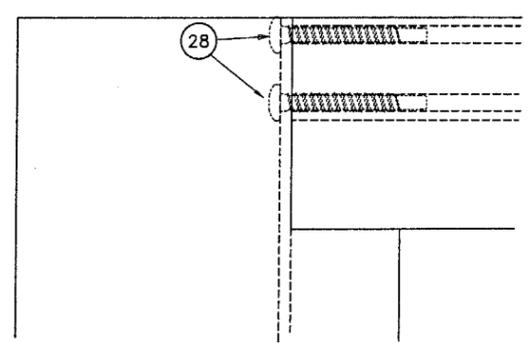
CERTIFICATION OCT 28 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 96-1219-08	REV. A
SHEET NO. 4 OF 5	



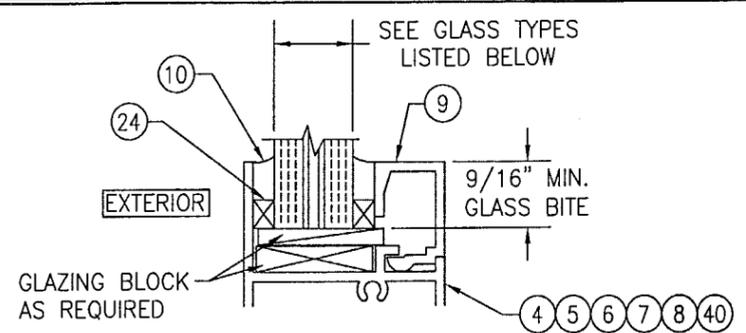
HEAD TO JAMB FABRICATION



SILL TO JAMB FABRICATION



SASH CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED



GLAZING DETAIL

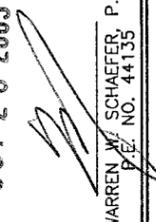
- GLASS "A" 5/8" TEMPERED VIRACON HRG-2 LAMINATED GLASS (1/4" TEMPERED/0.05" POLYURETHANE/0.08" POLYCARBONATE/0.05" POLYURETHANE/1/4" TEMPERED)
- GLASS "B" 7/16" ANNEALED SECURITY "SAF-GLAS" LAMINATED GLASS (3/16" A.N./0.015" ALIPHATIC URETHANE/0.070" POLYCARBONATE/0.015" ALIPHATIC URETHANE/3/16" A.N.)
- 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
B	86.25	42.5	42.8	42.8	42.8	42.8
		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
	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
		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 REVISED
 as complying with the Florida Building Code
 Acceptance No. D3-1113-01
 Expiration Date OCT 2, 2005
 By Warren W. Schaefer
 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 EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169			
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			
CERTIFICATION OCT 28 2003  WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO 96-1219-08	REV. A	SHEET NO. 5 OF 5