



**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 "3005" Aluminum Sliding Glass Door w/wo reinforcement-S.M.I.

APPROVAL DOCUMENT: Drawing No **96-1219.07**, dated 02/13/01, with revision "B2" dated 10/21/03, titled "S-3005 Sliding Glass Door (small 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: Small Missile Impact

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# 02-0722.02** and 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 **Theodore Berman, P.E.**

Handwritten signature
1/24/2004


**NOA No 03-1113.03
Expiration Date: October 02, 2006
Approval Date: February 05, 2004
Page 1**

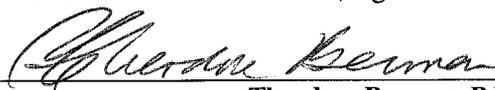
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings.
2. Drawing No **96-1219.07**, dated 02/13/01, with revision B2 dated 10/21/03, titled "S-3005 Sliding Glass Door (small 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) Uniform Static Air Pressure Test, Loading per TAS 202-94
2) Large Missile Impact Test per FBC TAS 201-94
3) Cyclic Wind Pressure Test per FBC TAS 203-94
along with installation diagram and marked-up drawings of an aluminum sliding glass door, prepared by Hurricane Test Laboratory, Inc. test No. **HTL-0046-0623-02**, dated 06/27/02 and 07/03/02, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
2) Large Missile Impact Test per FBC TAS 201-94
3) Cyclic Wind Pressure Test per FBC TAS 203-94
along with installation diagram and marked-up drawings of an aluminum sliding glass door, prepared by Hurricane Test Laboratory, Inc. test No. **HTL-0046-0820-02**, dated 09/27/02, signed and sealed by Vinu J. Abraham, P.E.
3. Additional tests for the revision per proposal submitted and accepted by BCCO dated 09-24.01. Test report HTL-01-092 (**HTL 0046-0216-02**), issued by Hurricane Testing lab, signed & sealed by Vinu Abraham, P. E. for Efco Series "S-3005 aluminum sliding glass doors. Test reports on 1) Uniform Static Air Pressure Test, Loading per TAS 202-94 (Structural only)
2) Small Missile Impact Test per TAS 201-94 (Ball bearing)
3) Cyclic Wind Pressure Test per TAS 203-94.
"Submitted under NOA# 02-0722.02"
4. Test reports on 1) Air Infiltration Test, per PA 202-94 (Test reports in file # **96-1219.07**)
2) Uniform Static Air Pressure Test, Loading per TAS 202-94
3) Water Resistance Test, per TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94.
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Test per FBC, TAS 203-94
along with installation diagram and marked-up drawings of an aluminum sliding glass door configuration OXO with and without Reinforcement, prepared by Hurricane Test Laboratory, Inc. No. **HTL-0046-0818-96**, dated from 08/27/96 to 10/04/96, signed and sealed by Timothy S. Marshall, PE (Test reports in file # **96-1219.07**) *"Submitted under NOA# 02-0722.02"*
5. Test reports on 1) Air Infiltration Test, per TAS 202-94 (Test reports in file # **96-1219.07**)
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Test per FBC, TAS 203-94
along with installation diagram and marked-up drawings of an aluminum sliding glass door configuration OXO with and without Reinforcement, prepared by Hurricane Test Laboratory, Inc. No. **HTL-0046-0818-96** dated from 08/27/96 to 10/04/96, signed and sealed by Timothy S. Marshall, P.E.
"Submitted under NOA# 02-0722.02"



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1113.03
Expiration Date: October 02, 2006
Approval Date: February 05, 2004

Efco Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor calculations verification calculation, prepared by Efco Corporation, originally dated 06-03-1997, reviewed and revised by Warren W. Schaefer, P.E., signed & sealed by Warren W. Schaefer, P.E.(additional anchor revision was made per office telephone conversation dated 02-26-01)
“Submitted under NOA# 02-0722.02”
2. Glass and anchor calculations, prepared by Efco Corporation, dated 10/96, revised on 01/97 and 5/97, signed and sealed by Richard Diblasi, P.E.
“Submitted under NOA# 02-0722.02”
3. ASTM-1300-E1300-98 analysis.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

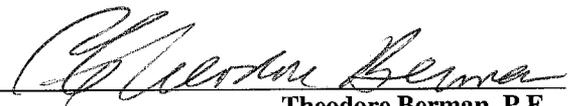
1. Notice of Acceptance No. 01-0205.02 issued to Solutia Inc. for “Saflex /Keepsafe”, expiring 05-21-06.
2. Aggregate Certification, dated November 10, 1995, by CSR Rinker Materials for No. 6 coarse mineral aggregate per ASTM D-1863-86 "Standard Specification for Mineral Aggregate Used on Built-Up Roofs".
“Submitted under NOA# 02-0722.02”

F. STATEMENTS (transferred from file # 96-1219.07 & 00-1031.02)

1. Laboratory compliance letter for Test Report no. **HTL- 0046-0623-02** and **HTL-0046-0820-02**, issued by Hurricane Test Laboratory, Inc., dated June 25, 2003, signed and sealed by Vinu J. Abraham, P.E.
2. Statement letter of change of engineer and engineering review of calculation and drawing taken over by Warren Schaefer, P.E., signed and sealed by Warren Schaefer, P.E.
“Submitted under NOA# 02-0722.02”
3. Statement letter of confirmation that “Engineer of Records- Richard DiBlasi” still in engineering practice, issued by Efco Corp, signed by Steve Cantrell.
“Submitted under NOA# 02-0722.02”

F. OTHERS

1. Notice of Acceptance No. **02-0722.02**, issued to Efco Corporation for their Series “3005” Aluminum Sliding Glass Door, approved on 01/30/03 and expiring on 10/02/06.
2. Test proposal dated 09-24.01 approved by BCCO.
“Submitted under NOA# 02-0722.02”
3. Only Tempered laminated glazing complies w/ASTM-1300.
“Submitted under NOA# 02-0722.02”
4. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

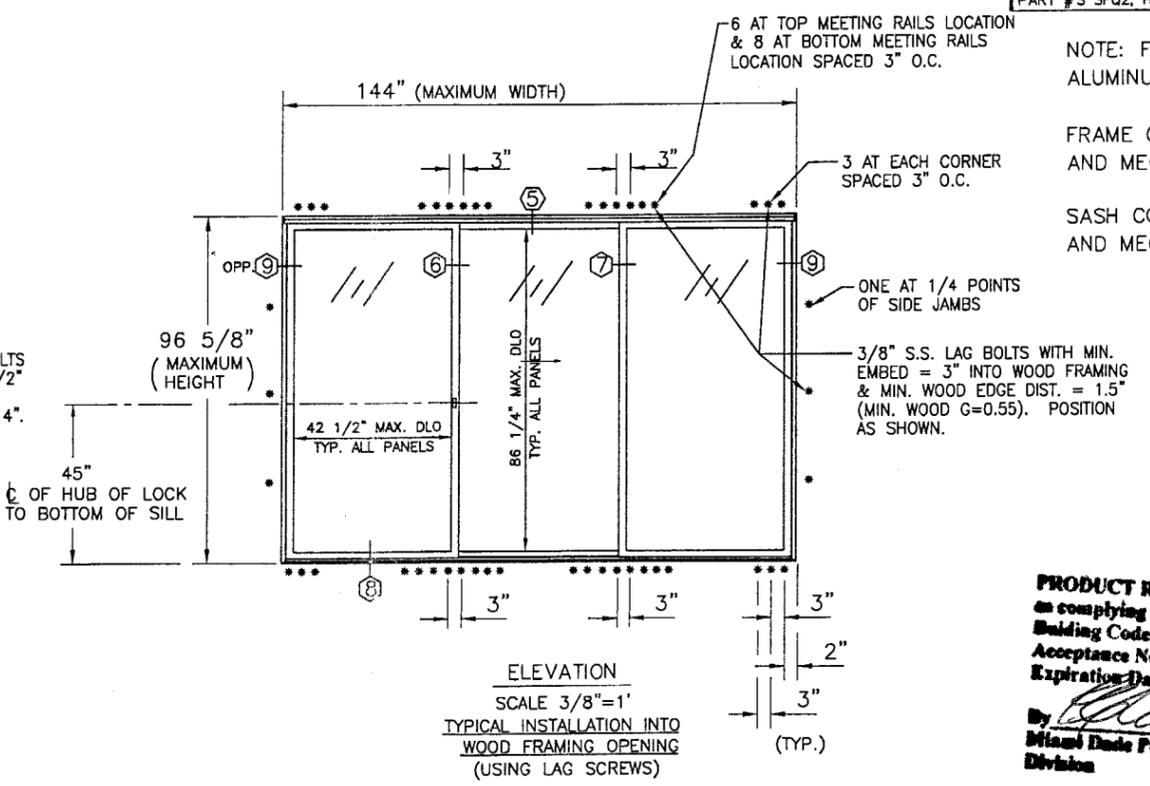
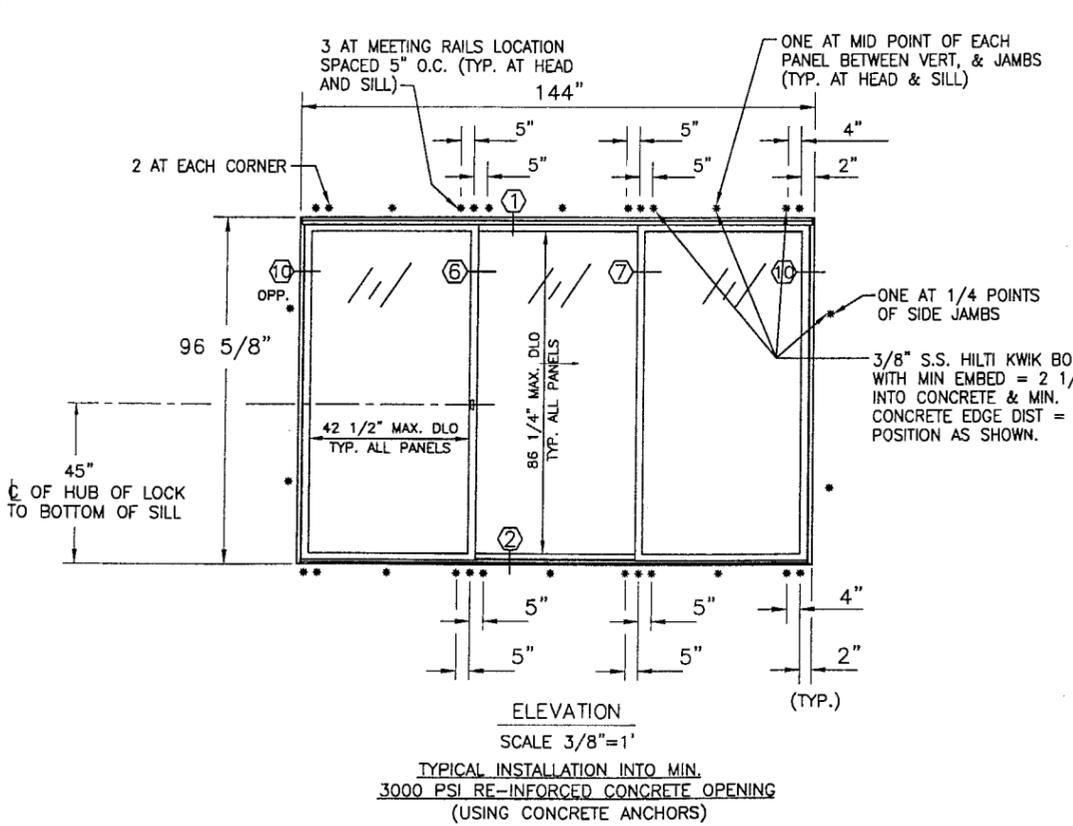
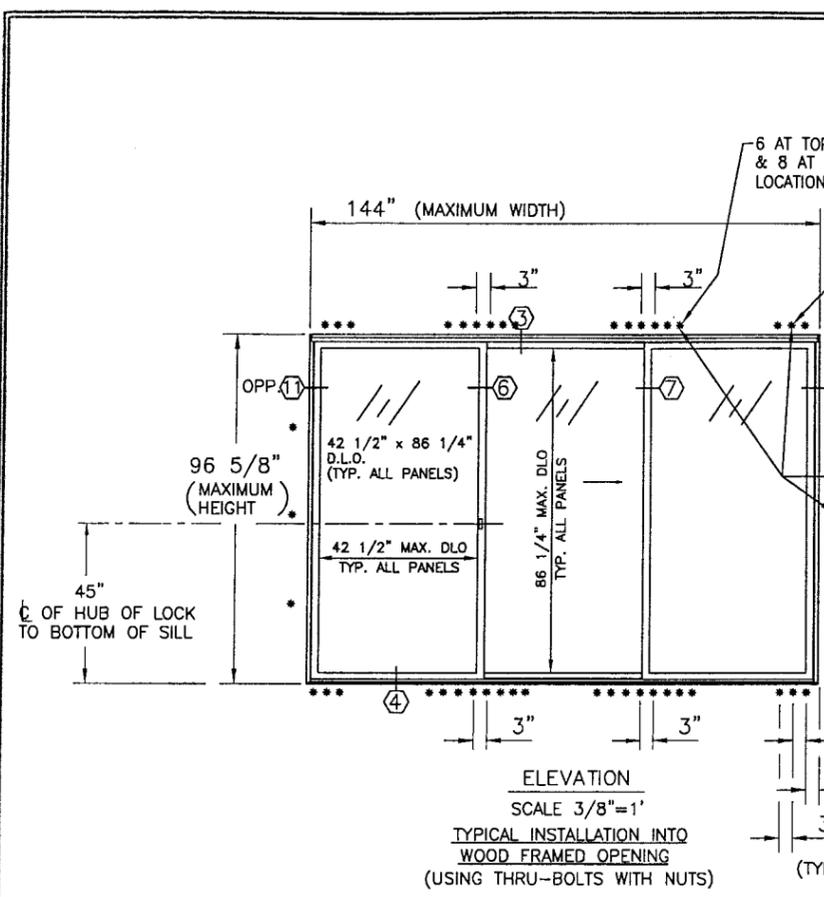


Theodore Berman, P.E.
Deputy Director, Product Control Division

NOA No 03-1113.03

Expiration Date: October 02, 2006

Approval Date: February 05, 2004



ITEM	# REQD	PART #	DESCRIPTION	MFG.	ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	1	3089	HEAD	EFCO	15	2	HEP4	FIXED SASH SETTING CHAIR	CENTRAL PLASTICS
2	1	3884	EXTERIOR HEAD CLOSURE	EFCO	16	2	HR33	OPERABLE SASH ROLLER	
3	1	3880	INTERIOR HEAD CLOSURE	EFCO	17	AS REQD		.125 x .375 BUTYL TAPE	TREMCO
4	1	3090	SILL	EFCO	18	AS REQD		# 1200 SILICONE	G.E.
5	1	3309	OXO MTG. RAIL	EFCO	19	1	3894	WEATHERSTRIP BLOCK	EFCO
6	1	3093	FIXED JAMB	EFCO	20	1	F278	EXT. STD. DOOR PULL(3901)	EFCO
7	1	3887	THRESHOLD	EFCO	21	1	F273	INT. STD. DOOR PULL(3901)	EFCO
8	8	3764	GLAZING BEAD	EFCO	22	AS REQD	STK5	#10-16x3/4" PL PH SMS	TEK/3
9	4	3517	HORIZONTAL SASH RAILS	EFCO	23	4	SFP1	#10-16x1" PL FH SMS	
10	1	3308	OPERABLE MTG. RAIL	EFCO	24	AS REQD	WF02	FRAME WEATHERSTRIP	TRI-SEAL
11	1	3519	OPERABLE SASH SIDE RAIL	EFCO	25	2	SPP4	#6-18x1" PL PH SMS	
12	1	3280	FIXED MEETING RAIL	EFCO	26	1	HSR5	THUMB TURN	
13	1	3518	FIXED SASH SIDE RAIL	EFCO	27	2	MF1	#8-32x3/4" PL TH MS	
14	2	7584	WEEP BAFFLE RETAINER	EFCO	28A	1	HSP7	DEAD LOCK (MS 1847-09)	ADAMS RITE
					28B	1	HSS6	LOCK ASSEMBLY	SASH CONTROL
					29	AS REQD		D.C. 795 SILICONE	DOW CORNING
					30A	1	HSR1	STRIKE PLATE & SHIMS	ADAMS RITE
					30B	1	HST1	LOCK KEEPER	SASH CONTROL
					31	1	STK0	#8-18x3/4" PL PH SMS	TEK/2
					32	4	RAP5	BAFFLE RETAINER DRIVE-NUT	
					33	2	HCW6	30 PPI FOAM BAFFLE	
					34	AS REQD	LB32	SASH GLIDES	CENTRAL PLASTICS
					35	1 SET	H064	FRAME GASKET (HEAD)	REED RUBBER
					36	1 SET	H063	FRAME GASKET (SILL)	REED RUBBER
					37	1	3923	SUBSILL	EFCO
					38	1	HV02	SASH STOP	CENTRAL PLASTICS
					39	AS REQD		1,500 x 4,000 x 1,500 10 GAUGE STEEL REINFORCEMENT CHANNEL	
					40	AS REQD	HND4 HNS0	GLAZING BLOCKS	REED RUBBER
					41	AS REQD		LAG SCREWS - ANCHORS	
					42	3	STT6	#8-18x9/16" PL PH SMS	TEK/2
					43	3	HBB1	JAM CAM	
					44	1	SLQ3	#8-18x1 1/4" PL PH SMS	
					45	1	STV3	#10-16x1 1/4" HWH SMS	
					46	AS REQD	STSO	#12-14x3/4" PL PH SMS	TEK/3
					48	1	1283	COVER	EFCO

HR33 ROLLERS LOCATED ON OPERABLE PANEL AT BOTTOM OF VERTICAL STILES

DESIGN PRESSURE RATING (NO REINFORCEMENT)		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+100 PSF	+115 PSF
NEGATIVE	-115 PSF	-115 PSF

DESIGN PRESSURE RATING (W/STEEL REINFORCEMENT)		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+100 PSF	+180 PSF
NEGATIVE	-130 PSF	-180 PSF

NO.	REVISION DESCRIPTION	DATE
B1	ADDED ITEMS 28B & 30B	10/21/03
B2	ADDED ALT. LOCK HARDWARE	10/21/03

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. 03-1113.03 Expiration Date 10/02/06
 By *Warren W. Schaefer*
 Miami Dade Product Control Division

DRAWN BY: W.W.S. CHECKED BY: W.W.S.
 PLOT: 1=1.5 DATE: 02/13/01

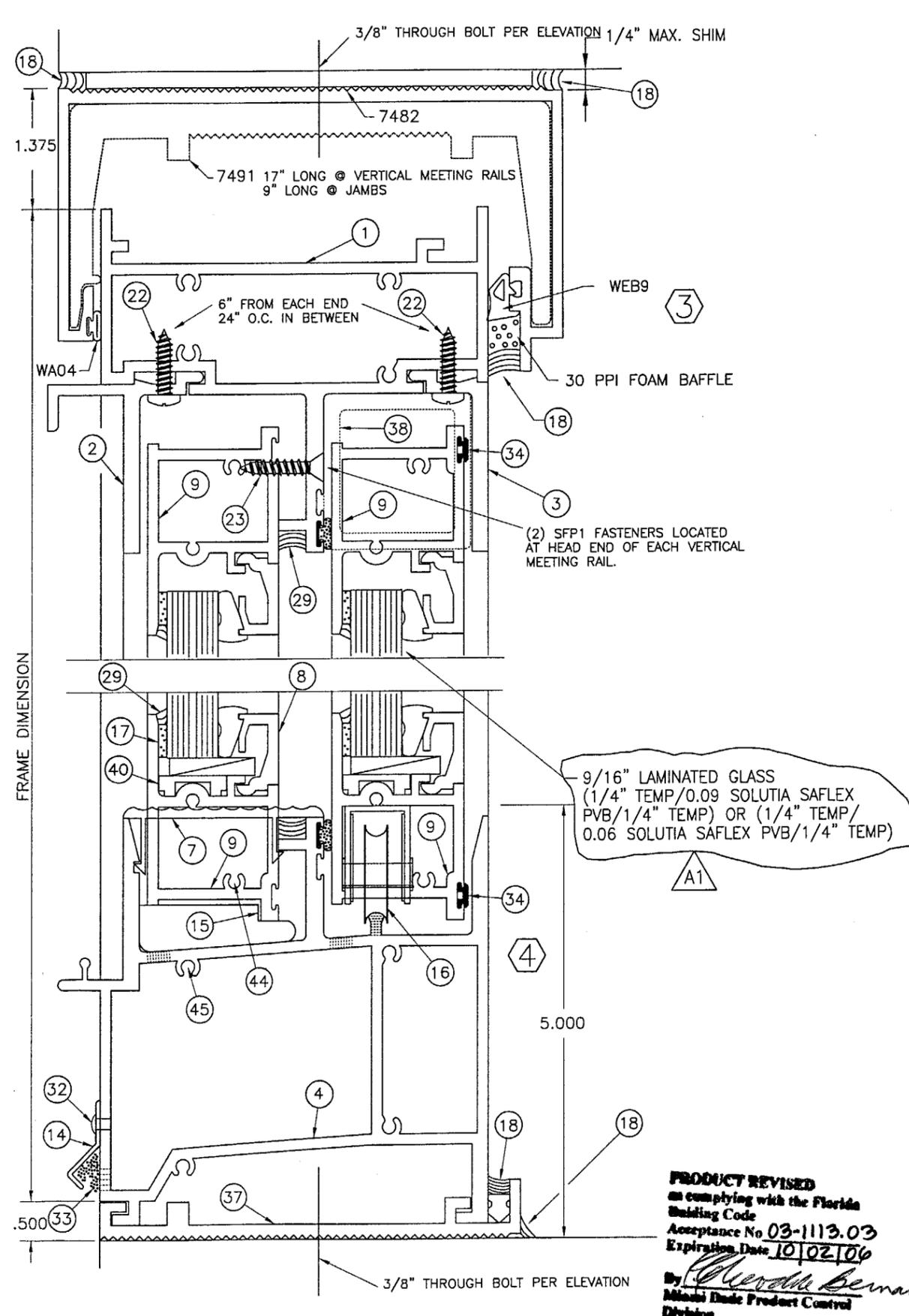
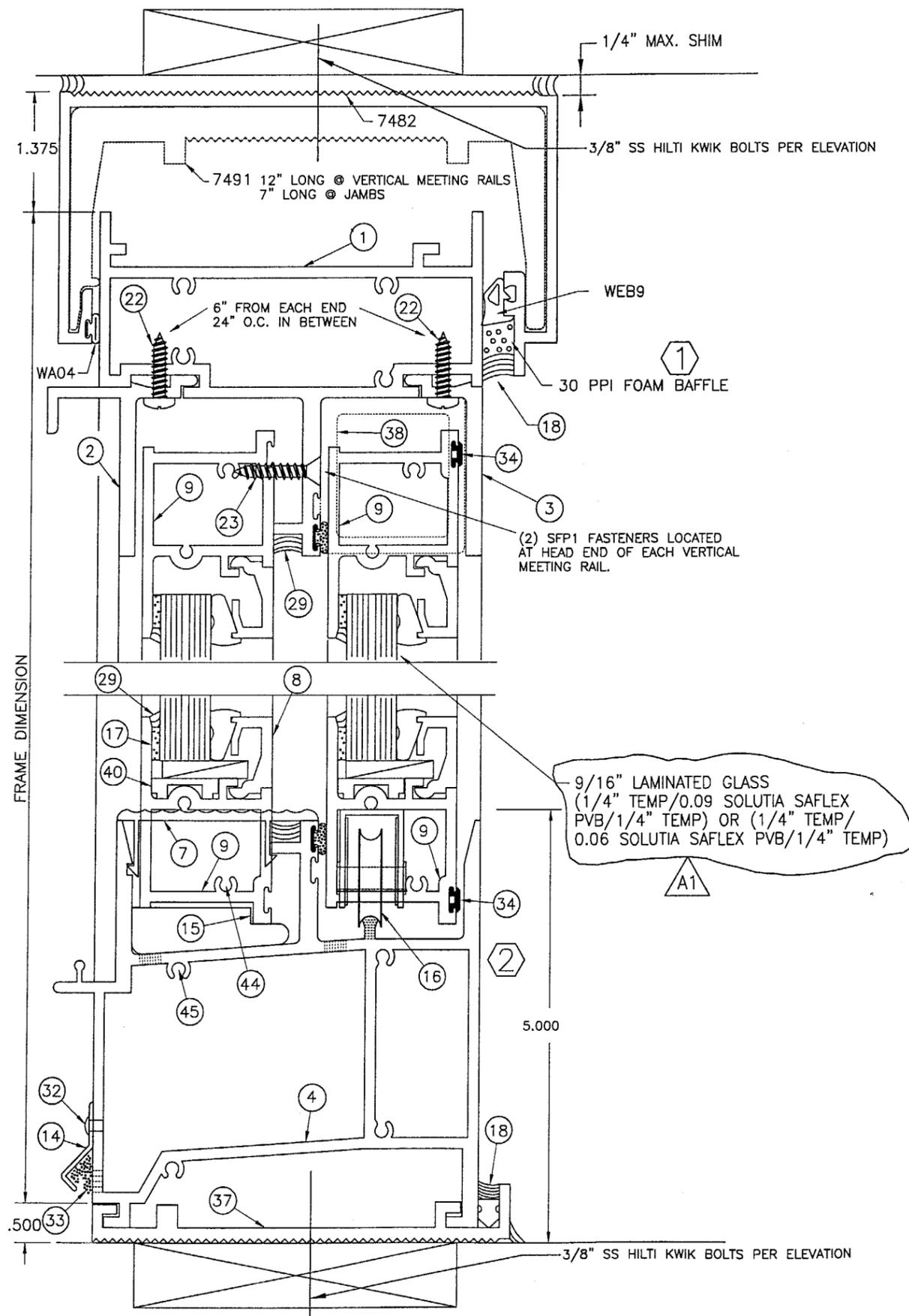
DRAWING TITLE: S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)

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

DRAWING NO. 96-1219-07 REV. B
 SHEET NO. 1 OF 5



9/16" LAMINATED GLASS
 (1/4" TEMP/0.09 SOLUTIA SAFLEX
 PVB/1/4" TEMP) OR (1/4" TEMP/
 0.06 SOLUTIA SAFLEX PVB/1/4" TEMP)

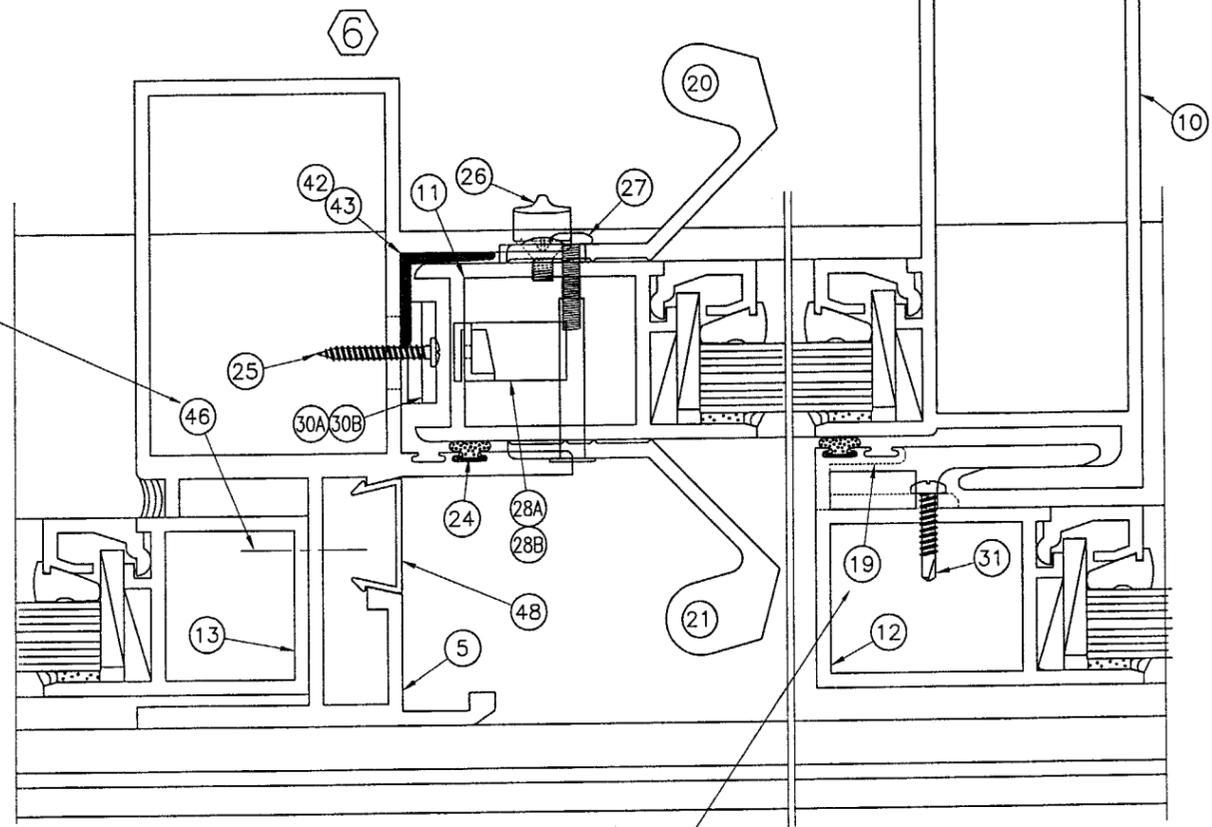
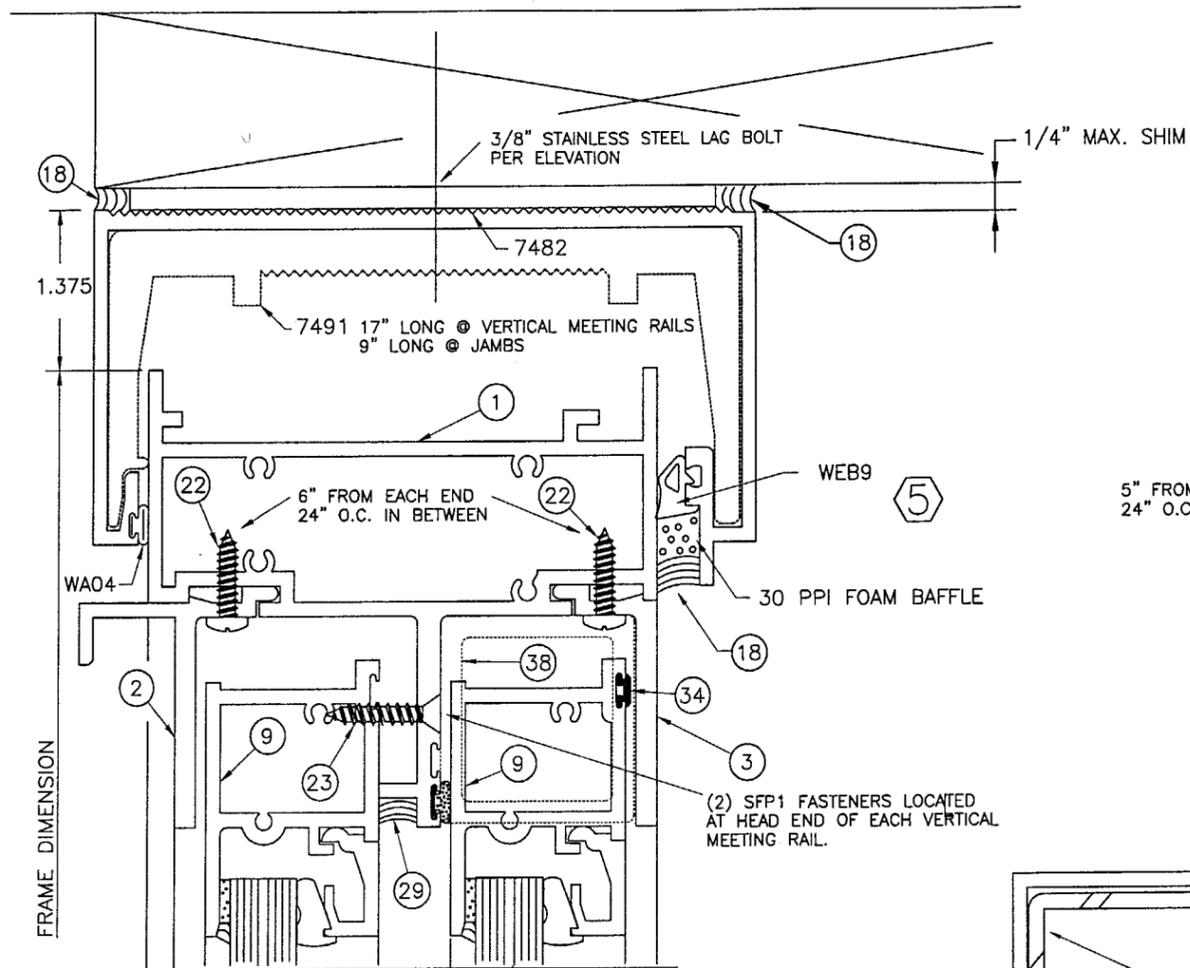
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 0.06 SOLUTIA SAFLEX PVB/1/4" TEMP)

PRODUCT REVISED
 in complying with the Florida
 Building Code
 Acceptance No 03-1113.03
 Expiration Date 10/02/06
 By *Cherale Bernan*
 Miami Dade Product Control
 Division

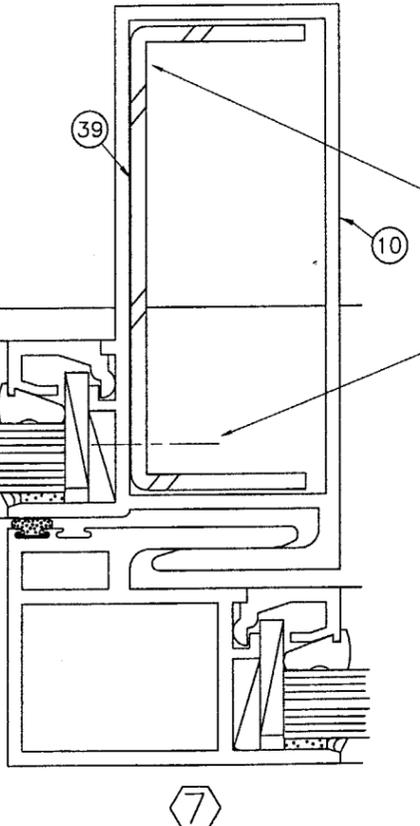
W.W. SCHAEFER JOB NO. 1038

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DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=1.5		DATE: 02/13/01	
NO.	REVISION DESCRIPTION	BY	DATE
A1	ADDED GLASS OPTION OF 0.06 INNER LAYER W/HEAT STRENGTHENED GLASS	WWS	06/19/02
DRAWING TITLE S-3005 SLIDING GLASS DOOR (SMALL 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		By <i>Warren W. Schaefer, P.E.</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 96-1219-07		REV. B	
SHEET NO. 2		OF 5	



WITHOUT REINFORCEMENT
⑦



WITH REINFORCEMENT
⑦

9/16" LAMINATED GLASS
(1/4" TEMP/0.09 SOLUTIA SAFLEX
PVB/1/4" TEMP) OR (1/4" TEMP/
0.06 SOLUTIA SAFLEX PVB/1/4" TEMP)

A1

5" FROM EACH END
24" O.C. ON BETWEEN

10 GAUGE
1.500 x 4.000 x 1.500
STEEL REINFORCEMENT
LENGTH= 86.625
ATTACHED WITH #10-24 M.S.
3" FROM EACH END AND ONE AT MID-POINT
(3 FASTENERS TOTAL)

3894 WEATHERSTRIP BLOCK IS 3/4" LONG
FASTENED ABOVE INTERLOCK WITH #8x3/4" TEK SCREW

DRAWN BY:	W.W.S.	CHECKED BY:	W.W.S.
PLOT:	1=1.5	DATE:	02/13/01
NO.	REVISION DESCRIPTION	BY	DATE
A1	ADDED GLASS OPTION OF 0.06 INNER LAYER W/HEAT STRENGTHENED GLASS	WWS	06/19/02

DRAWING TITLE
S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)

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

CONSULTANTS
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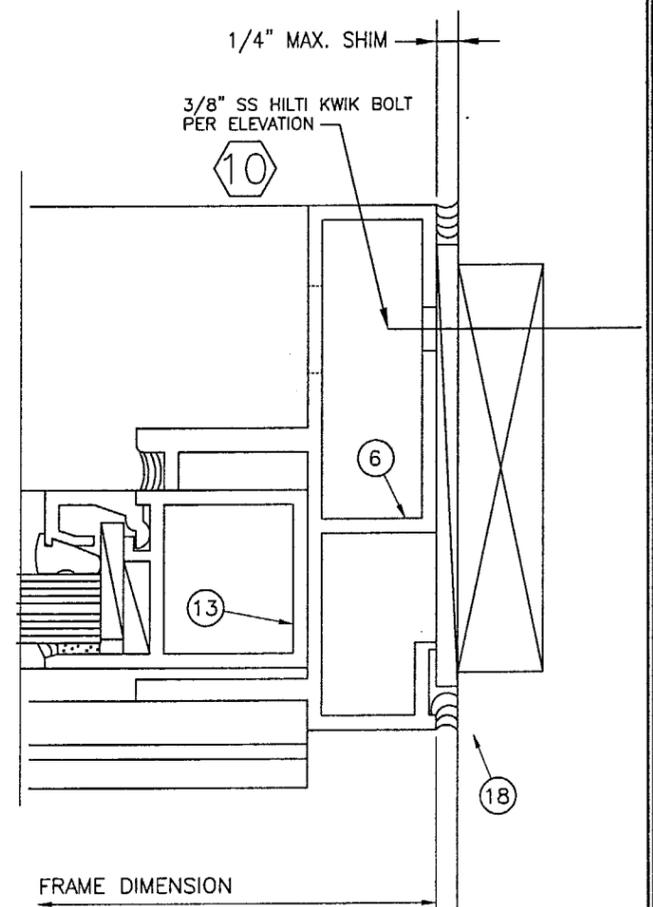
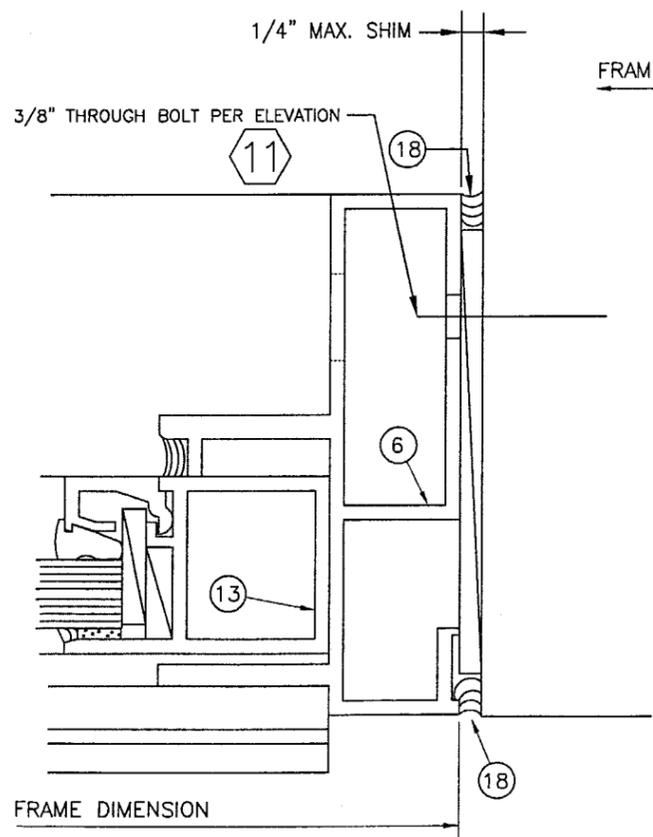
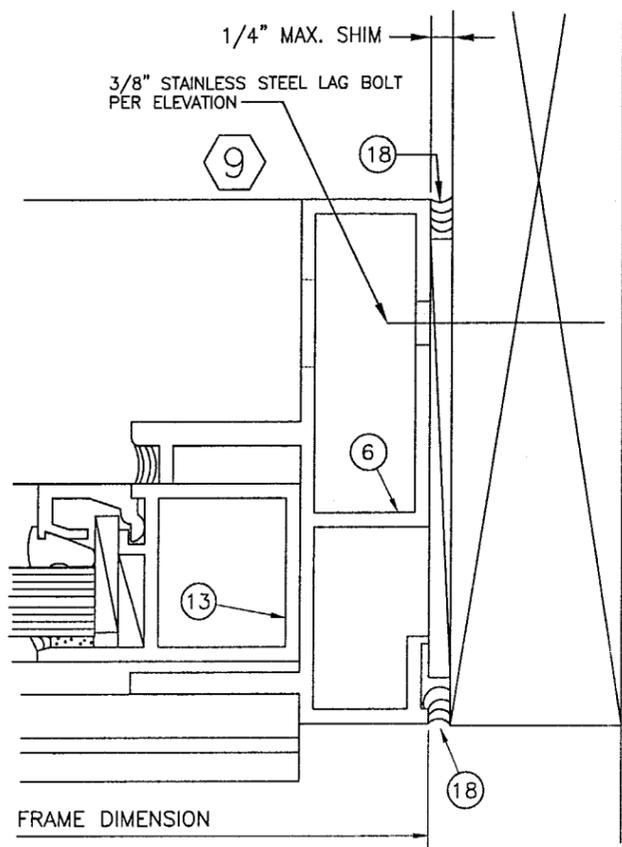
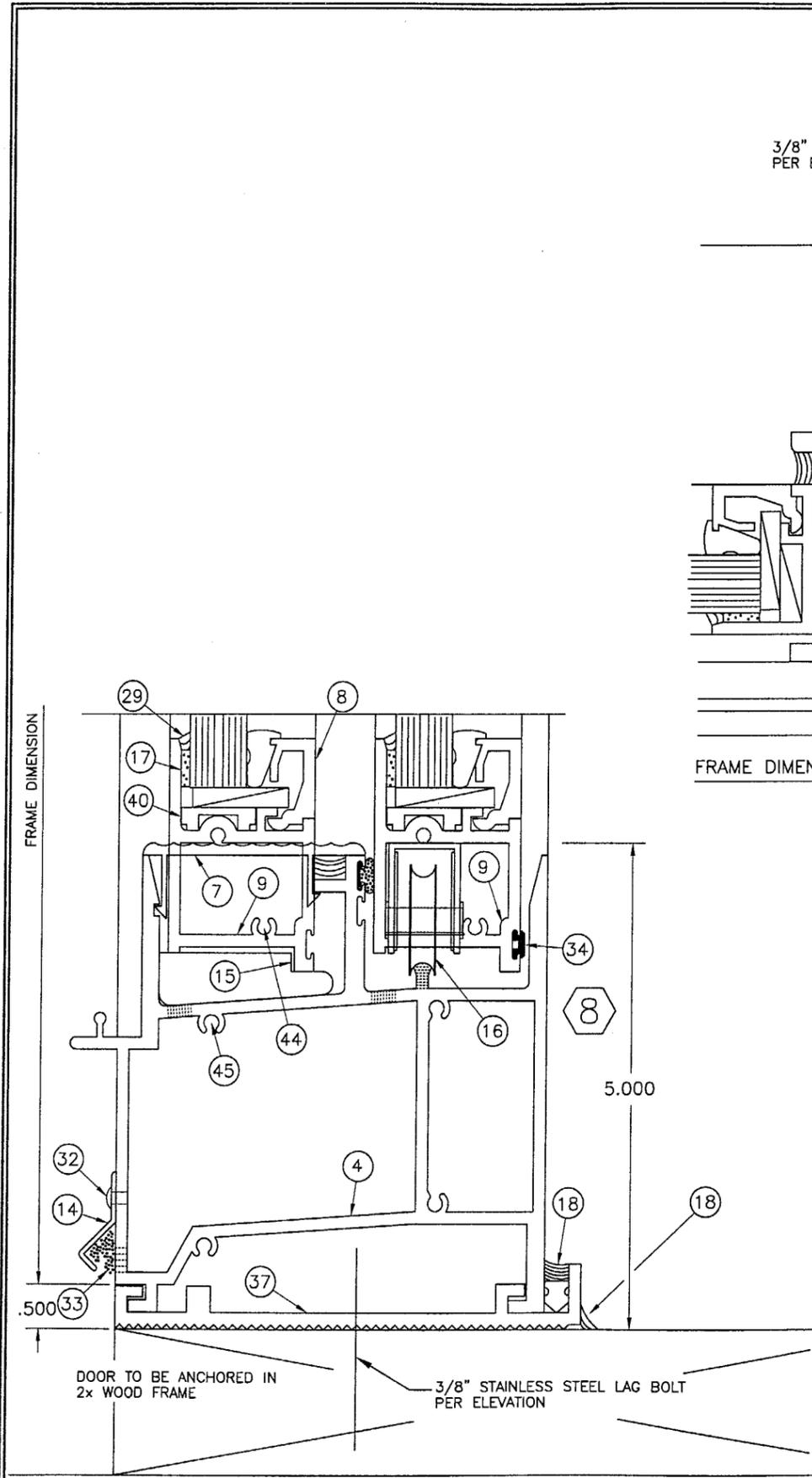
CERTIFICATION
OCT 28 2003

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No **03-1113.03**
Expiration Date **10/02/06**

By *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWING NO.	REV.
96-1219-07	B
SHEET NO.	
3 OF 5	



PRODUCT REVISED
 on complying with the Florida
 Building Code
 Acceptance No. 03-1113.03
 Expiration Date 10/02/06
 By *Quentin Berman*
 Miami Dade Product Control
 Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 02/13/01
NO.	DATE
BY	
REVISION DESCRIPTION	

DRAWING TITLE
 S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)

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

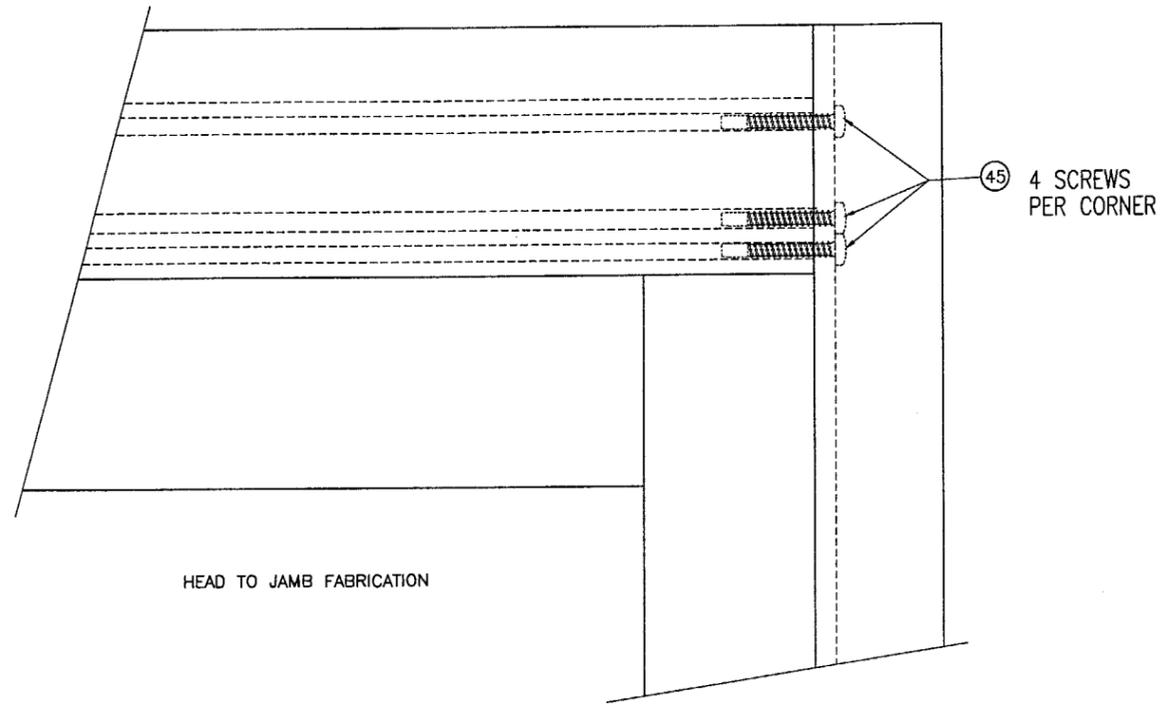
CONSULTANTS
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CERTIFICATION
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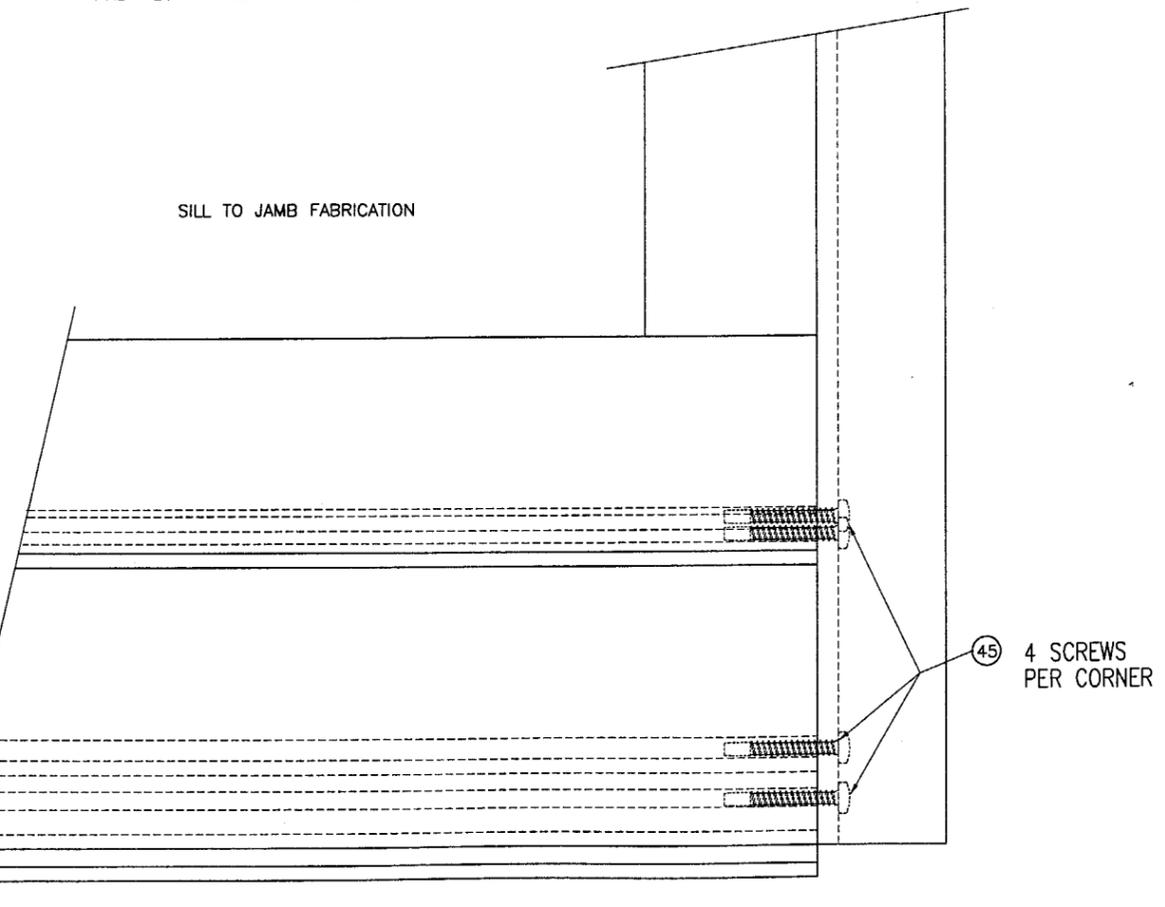
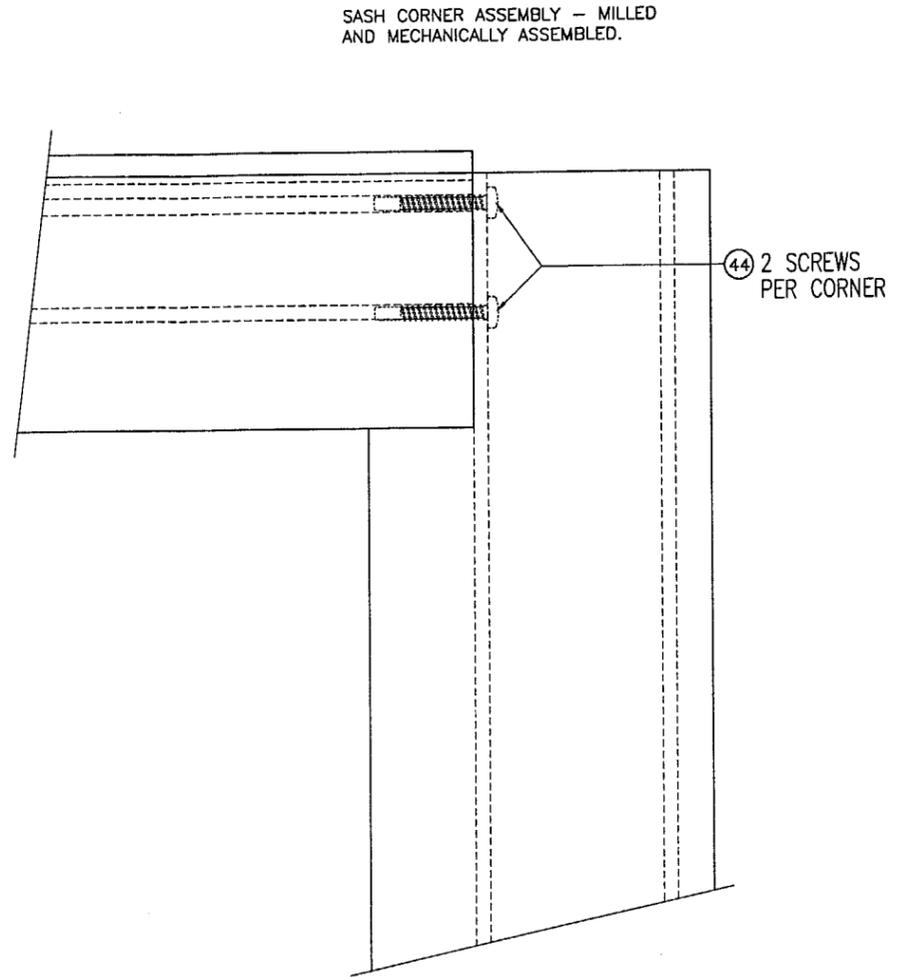
DRAWING NO. 96-1219-07	REV. B
SHEET NO. 4 OF 5	

W.W. SCHAEFER JOB NO. 1038

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 02/13/01
NO.	REVISION DESCRIPTION
BY	DATE



FRAME CORNER ASSEMBLY -- MILLED AND MECHANICALLY ASSEMBLED.



DRAWING TITLE S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)

MANUFACTURER
EFCO CORPORATION
 1000 COUNTY ROAD, P.O. BOX 609
 MONETT, MO 65708-0609
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CERTIFICATION
OCT 28 2003
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No **03-1113.03**
 Expiration Date **10/02/06**
 By *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWING NO. 96-1219-07	REV. B
SHEET NO. 5 OF 5	

W.W. SCHAEFER JOB NO. 1038