



**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "S-3005" Aluminum Sliding Glass Door w/ wo reinforcement--Small Impact**

**APPROVAL DOCUMENT:** Drawing No 96-1219.07, titled "S-3005 Sliding Glass Door(small Missile Impact", sheets 1 through 5 of 5 dated 02/13/01 and latest revised on 01-07-03, prepared by W. W. Schaefer Engineering & Consulting, 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 00-1031.02 consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



**NOA No 02-0722.02  
Expiration Date: October 02, 2006  
Approval Date: January 30, 2003  
Page 1**

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

**DRAWINGS**

1. Manufacturer's parts and sections drawings.
2. Drawing No **96-1219.07**, titled "S-3005 Sliding Glass Door(small Missile Impact)", sheets 1 through 5 of 5 dated 02/13/01 and latest revised on 01-07-03, prepared by W. W. Schaefer Engineering & Consulting, signed and sealed by Warren W. Schaefer P. E.

Note: Sheets 2 & 3 revised for interlayer and sheet 5 have been clarified for corner screws.

**B. TESTS**

1. 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.
2. 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 PA 202-94  
3) Water Resistance Test, per PA 202-94  
4) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94.  
5) Small Missile Impact Test per SFBC PA 201-94  
6) Cyclic Wind Pressure Test per SFBC PA 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**)
3. Test reports on 1) Air Infiltration Test, per PA 202-94 (Test reports in file # **96-1219.07**)  
2) Small Missile Impact Test per SFBC PA 201-94  
3) Cyclic Wind Pressure Test per SFBC PA 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.

**C. CALCULATIONS (calcs transferred from file # **96-1219.07** & **00-1031.02**)**

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)
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.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 01-0205.02 issued to Solutia Inc. for "Saflex /Keepsafe", expiring 05-21-06.
2. Notice of Acceptance No. 98-0728.05 issued to Solutia Inc. for "Saflex IIIG PVB Polyvinyl butryal interlayer", expiring 05-21-01. (file # **96-1219.07**).
3. Notice of Acceptance No. 01-0205.02 issued to Solutia Inc. for "Saflex /Keepsake", expiring 05-21-06.
4. 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". (Test reports in file # **96-1219.07**)
4. Note: Units under the NOA96-1297.07 was tested with 1/4" laminated glass, which was deemed acceptable by this office complying with the ordinance **99-155**.

Ishaq I. Chanda  
**Ishaq I. Chanda, P.E. Product Control Examiner**

**Product Control Division**

**NOA No 02-0722.02**

**Expiration Date: October 02, 2006**

**Approval Date: January 30, 2003**

**Efco Corporation**

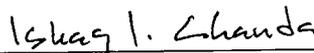
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**  
***(For File ONLY. Not part of NOA.)***

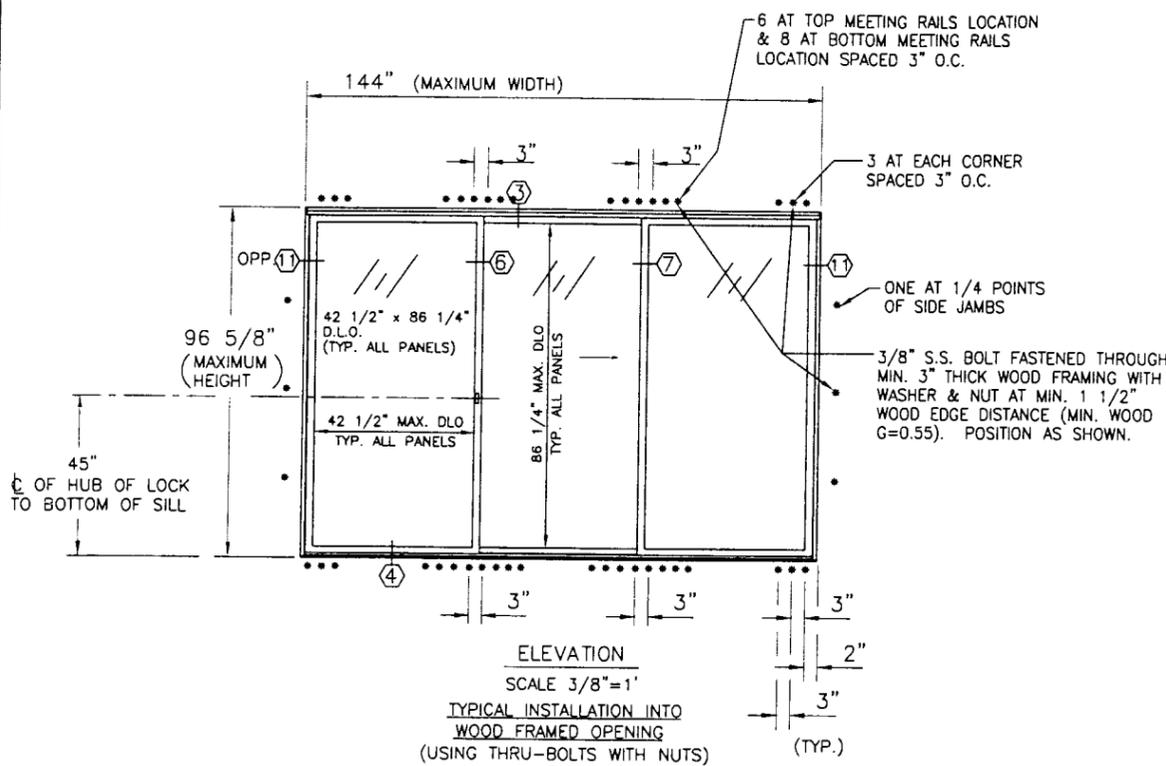
- E. STATEMENTS** (transferred from file # 96-1219.07 & 00-1031.02)
1. Statement letter of change of engineer and engineering review of calculation and drawing taken over by Warren Schaefer, P.E., signed and sealed by Warren Schaefer, P.E.
  2. Statement letter of confirmation that "Engineer of Records- Richard DiBlasi" still in engineering practice, issued by Efco Corp, signed by Steve Cantrell.
- F. OTHERS**
1. This Notice of Acceptance revises NOA # 00-1031, expiring 10-02-2006, previous file associate with this approval is 96-1219.07.
  2. Test proposal dated 09-24.01 approved by BCCO.
  3. Only Tempered laminated glazing complies w/ASTM-1300.

Test result tables contained in previous file. 96-1219.07

**TESTS RESULTS:**

TEST	TEST LOADS	DESIGN LOADS
<b>For OXO configuration with Reinforcement</b>		
AIR INFILTRATION @ 1.57 PSF SFBC PA 202-94 (0.34 CFM/FT <sup>2</sup> )	0.061 CFM/FT <sup>2</sup> HTL-0046-0818-96	-----
AIR INFILTRATION @ 6.24 PSF SFBC PA 202-94	0.077 CFM/FT <sup>2</sup> HTL-0046-0818-96	-----
UNIFORM STATIC PRESSURE AT DESIGN LOAD SFBC PA 202-94 POSITIVE	+180.0PSF HTL-0046-0818-96	+180.0 PSF HTL-0046-0818-96
UNIFORM STATIC PRESSURE AT DESIGN LOAD SFBC PA 202-94 NEGATIVE	-180.0 PSF HTL-0046-0818-96	-180.0 PSF HTL-0046-0818-96
WATER RESISTANCE (PSF) ASTM E547/E331	+15.0 PSF HTL-0046-0818-96	+100.0 PSF HTL-0046-0818-96
UNIFORM STATIC PRESSURE AT FULL TEST LOAD ASTM E330 PA 202-94 POSITIVE 30 Seconds	+270.0 PSF HTL-0046-0818-96	+180.0 PSF HTL-0046-0818-96
UNIFORM STATIC PRESSURE AT FULL TEST LOAD ASTM E330 PA 202-94 NEGATIVE 30 Seconds	-270.0 PSF HTL-0046-0818-96	-180.0 PSF HTL-0046-0818-96
FORCED-ENTRY RESISTANCE (FER) SFBC 3603.2(b)(5) and AAMA 1303.5-76	NO ENTRY HTL-0046-0818-96	-----
SMALL MISSILE IMPACT TEST SFBC PA 201-94	SATISFACTORY HTL-0046-0818-96	-----
CYCLIC WIND PRESSURE TEST SFBC PA 203-94 POSITIVE (4,500 cycles)	+180.0 PSF HTL-0046-0818-96	+180.0 PSF HTL-0046-0818-96
CYCLIC WIND PRESSURE TEST SFBC PA 203-94 NEGATIVE (4,500 cycles)	-180.0 PSF HTL-0046-0818-96	-180.0 PSF HTL-0046-0818-96
<b>Design Pressure Rating (Positive)</b>		<b>+100.0 PSF</b>
<b>Design Pressure Rating (Negative)</b>		<b>-180.0 PSF</b>

  
**Ishaq I. Chanda, P.E. Product Control Examiner**  
**Product Control Division**  
**NOA No 02-0722.02**  
**Expiration Date: October 02, 2006**  
**Approval Date: January 30, 2003**

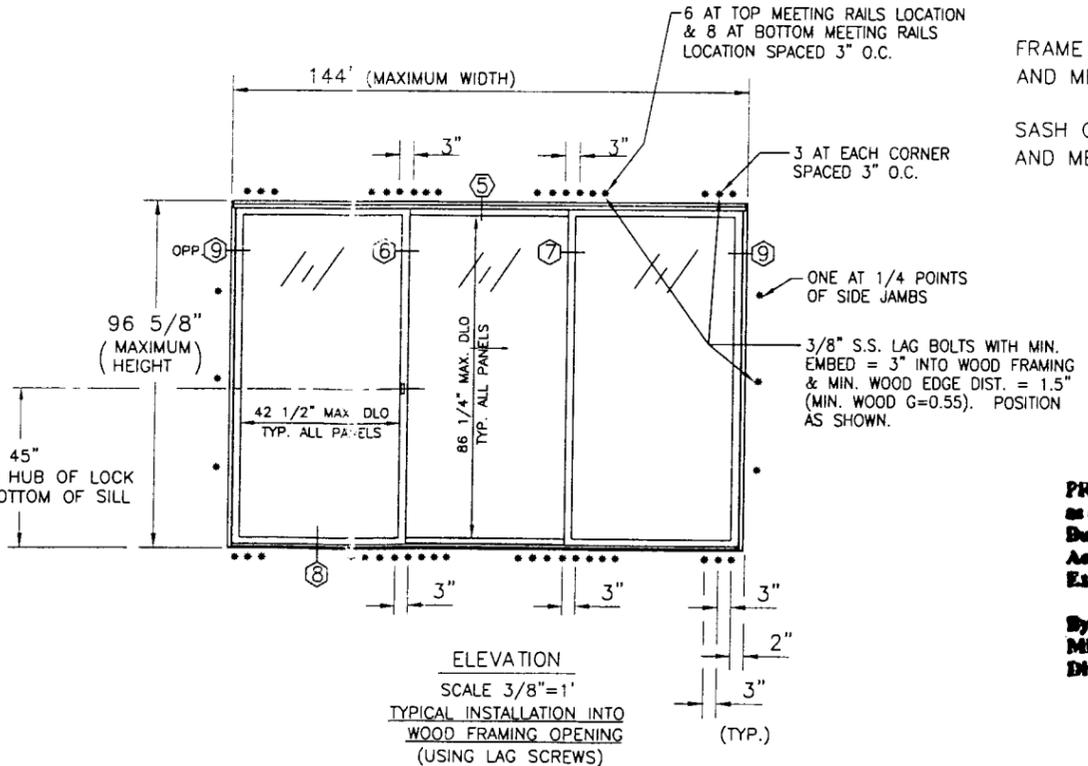
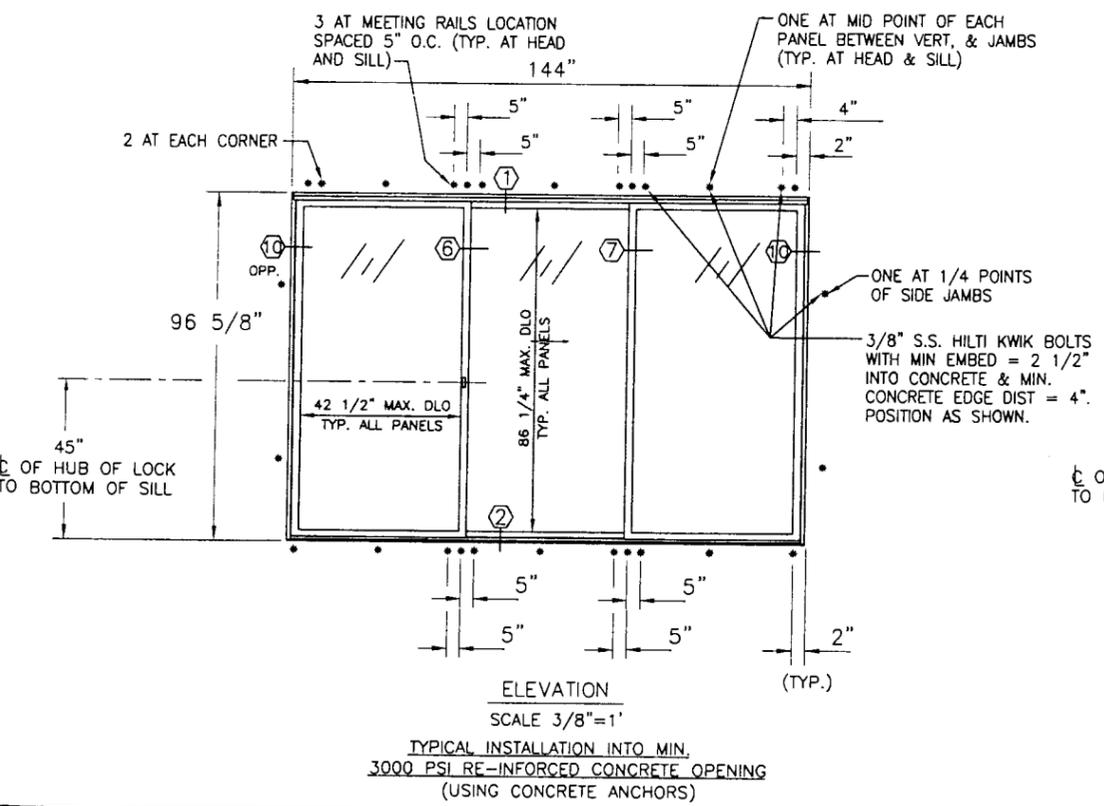


ITEM	# REQD	PART #	DESCRIPTION	MFG.	ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	1	3089	HEAD	EFCO	15	2	HEP4	FIXED SASH SETTING CHAIR	CENTRAL PLASTICS
2	1	3884	EXTERIOR HEAD CLOSURE	EFCO	16	2	HR33	OPERABLE SASH ROLLER	
3	1	3880	INTERIOR HEAD CLOSURE	EFCO	17	AS REQD		.125 x .375 BUTYL TAPE	TREMCO
4	1	3090	SILL	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	MFM1	#8-32x3/4" PL TH MS	
14	2	7584	WEEP BAFFLE RETAINER	EFCO	28	1	HSP7	DEAD LOCK (MS 1847-09)	ADAMS RITE
29	AS REQD				29	AS REQD		D.C. 795 SILICONE	JOV CORNING
30	1	HSR1	STRIKE PLATE & SHIMS	ADAMS RITE	30	1	HSR1	STRIKE PLATE & SHIMS	ADAMS RITE
31	1	STK0	#8-18x3/4" PL PH SMS	TEK/2	31	1	STK0	#8-18x3/4" PL PH SMS	TEK/2
32	4	RAP5	BAFFLE RETAINER DRIVE-NUT		32	4	RAP5	BAFFLE RETAINER DRIVE-NUT	
33	2	HCW6	30 PPI FOAM BAFFLE		33	2	HCW6	30 PPI FOAM BAFFLE	
34	AS REQD	LB32	SASH GLIDES	CENTRAL PLASTICS	34	AS REQD	LB32	SASH GLIDES	CENTRAL PLASTICS
35	1 SET	H064	FRAME GASKET (HEAD)	REED RUBBER	35	1 SET	H064	FRAME GASKET (HEAD)	REED RUBBER
36	1 SET	H063	FRAME GASKET (SILL)	REED RUBBER	36	1 SET	H063	FRAME GASKET (SILL)	REED RUBBER
37	1	3923	SUBSILL	EFCO	37	1	3923	SUBSILL	EFCO
38	1	HV02	SASH STOP	CENTRAL PLASTICS	38	1	HV02	SASH STOP	CENTRAL PLASTICS
39	AS REQD				39	AS REQD		1.500 x 4.000 x 1.500 10 GAUGE STEEL REINFORCEMENT CHANNEL	
40	AS REQD	HND4 HNG5	GLAZING BLOCKS	REED RUBBER	40	AS REQD	HND4 HNG5	GLAZING BLOCKS	REED RUBBER
41	AS REQD		LAG SCREWS - ANCHORS		41	AS REQD		LAG SCREWS - ANCHORS	
42	3	STT6	#8-18x9/16" PL PH SMS	TEK/2	42	3	STT6	#8-18x9/16" PL PH SMS	TEK/2
43	3	HBB1	JAM CAM		43	3	HBB1	JAM CAM	
44	1	SLQ3	#8-18x1 1/4" PL PH SMS		44	1	SLQ3	#8-18x1 1/4" PL PH SMS	
45	1	STV3	#10-16x1 1/4" HWH SMS		45	1	STV3	#10-16x1 1/4" HWH SMS	
46	AS REQD	STSO	#12-14x3/4" PL PH SMS	TEK/3	46	AS REQD	STSO	#12-14x3/4" PL PH SMS	TEK/3
48	1	1283	COVER	EFCO	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	-180 PSF	-180 PSF



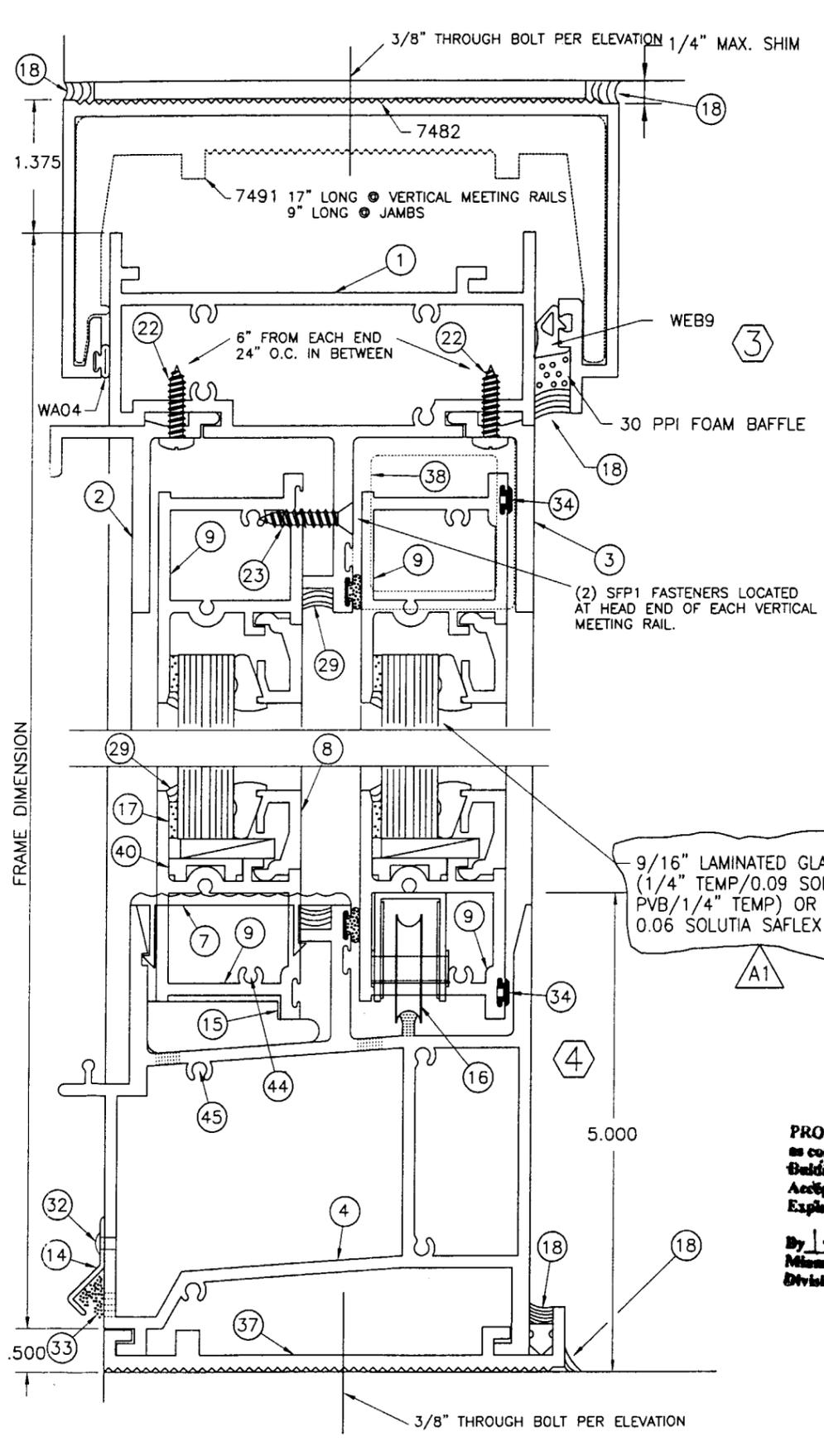
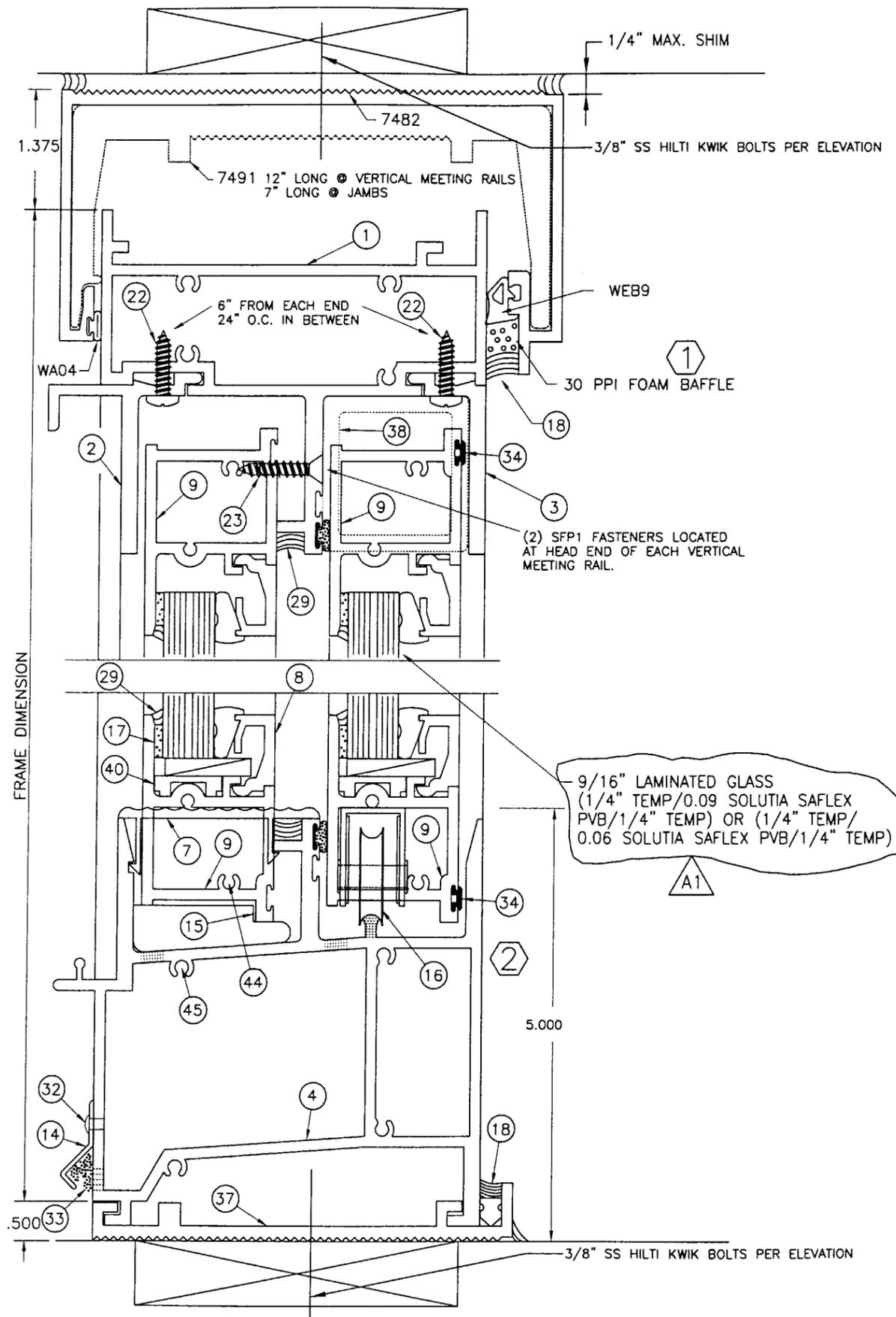
NOTE: FRAME AND DOOR MATERIAL ARE ALUMINUM 6063-T6

FRAME CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.

SASH CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Addendum No 02-0722-02  
Expiration Date 02/07/2006  
By *Ishqar I. Chaudhry*  
Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 02/13/01
NO.	REVISION DESCRIPTION
DRAWING TITLE <b>S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)</b>	
MANUFACTURER <b>EFCO CORPORATION</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>	
600 SANDREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION <b>JAN 07 2003</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>96-1219-07</b>	REV.
SHEET NO. <b>1</b>	OF <b>5</b>



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)

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)

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 02-0722.02  
 Expiration Date OCT 02, 2006  
 By Ishag L. Chaudhry  
 Miami Dade Product Control  
 Division

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

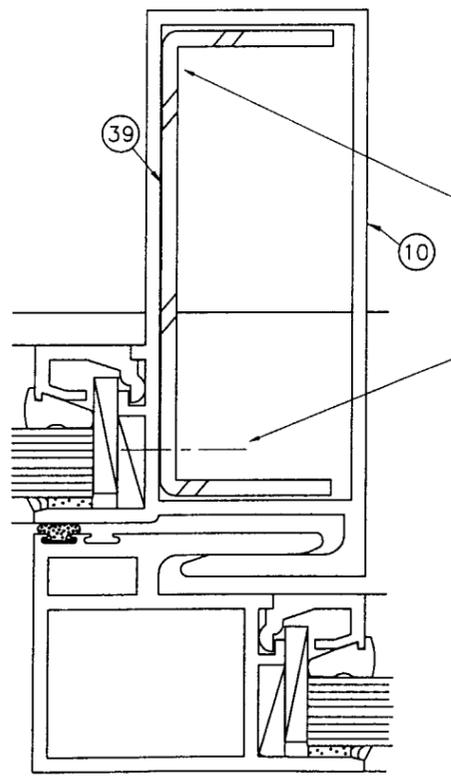
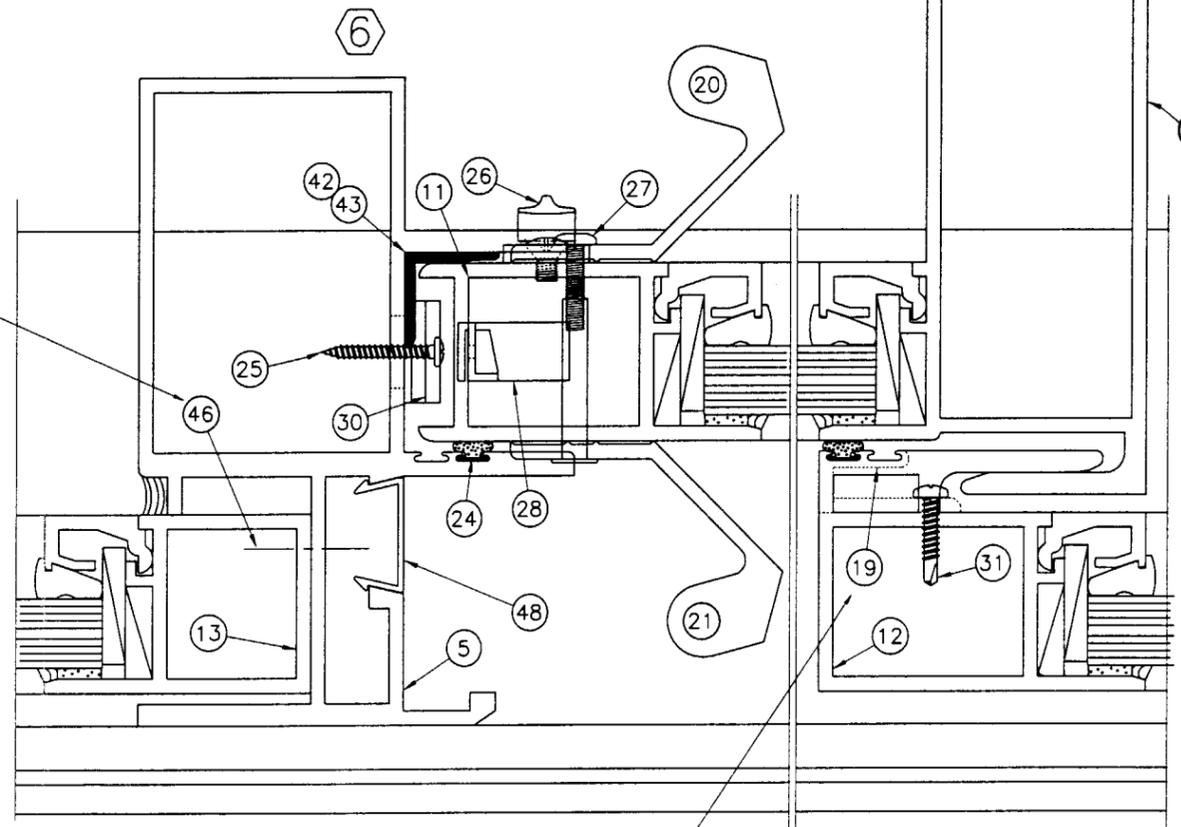
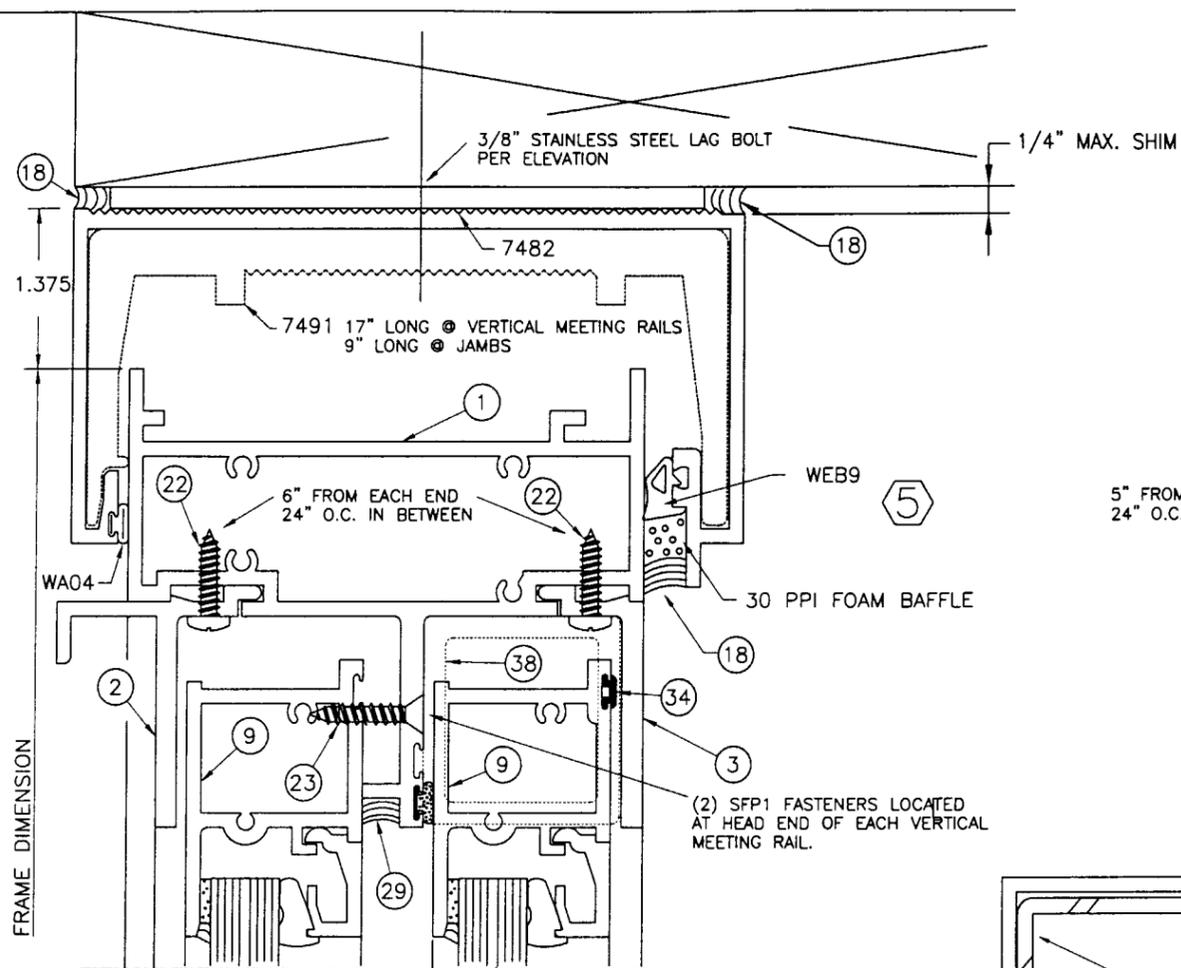
DRAWING TITLE: S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)

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.  
 600 SANDTREE DRIVE, SUITE 203B  
 PALM BEACH GARDENS, FL 33403  
 PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION: **JAN 07 2003**  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

DRAWING NO. 96-1219-07	REV.
SHEET NO. 2	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)

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

**PRODUCT REVISED**  
 as complying with the Florida  
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 Acceptance No. 02-0722.02  
 Expiration Date OCT02, 2006  
 By: Shag I. Chaudh  
 Miami Dade Product Control  
 Division

WITHOUT  
 REINFORCEMENT

7

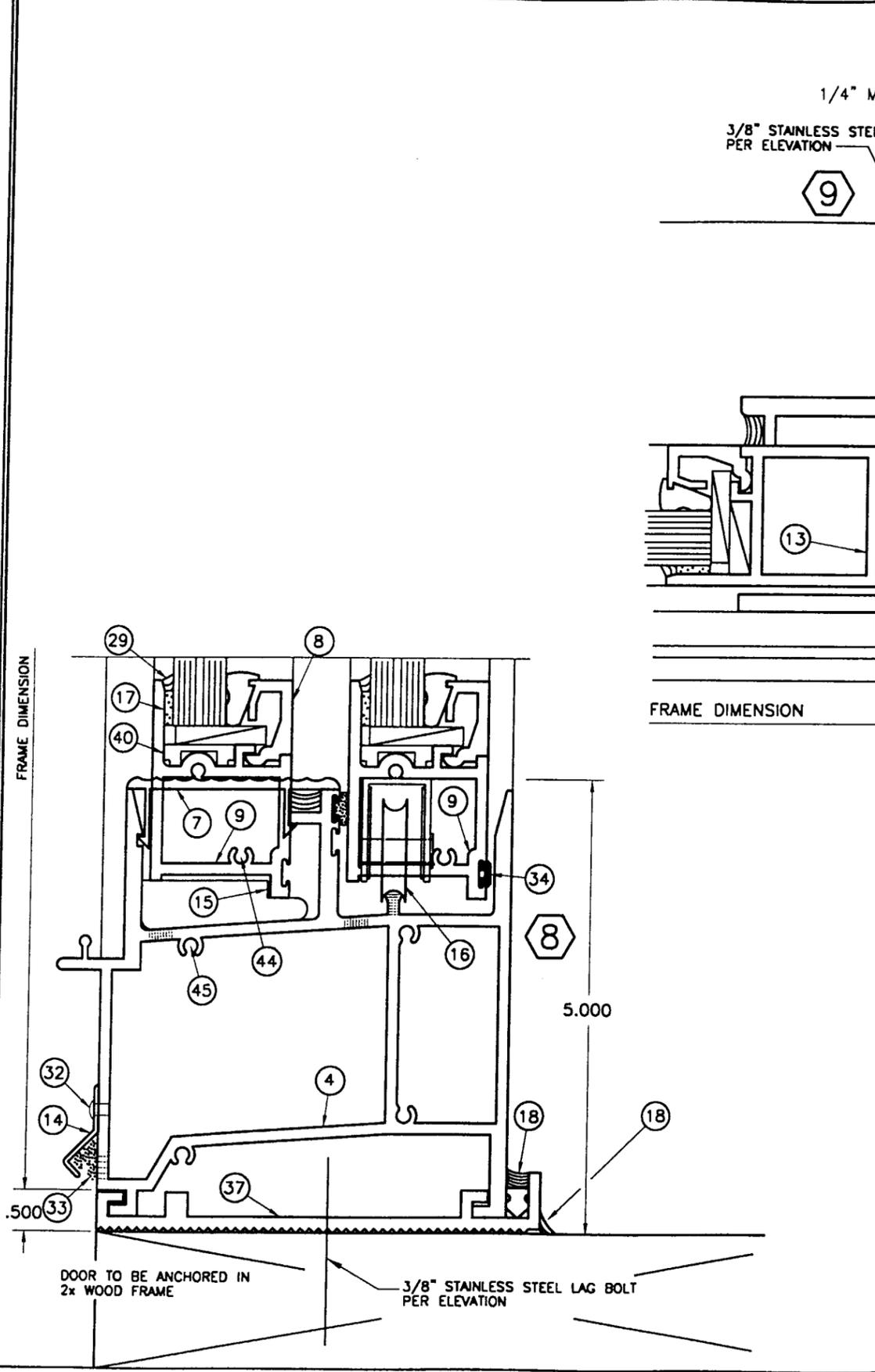
FRAME DIMENSION

WITH REINFORCEMENT

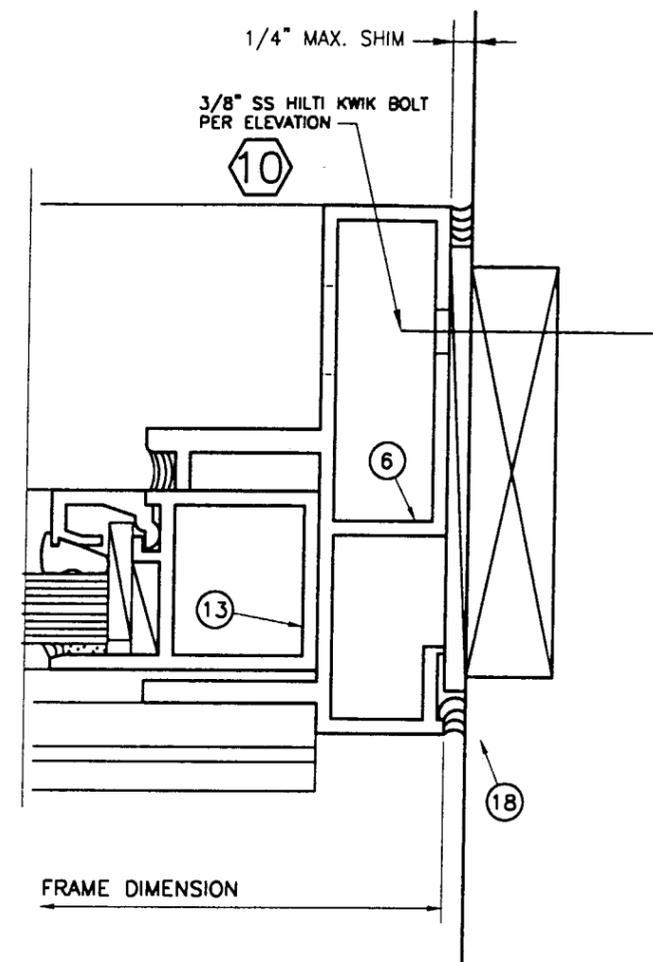
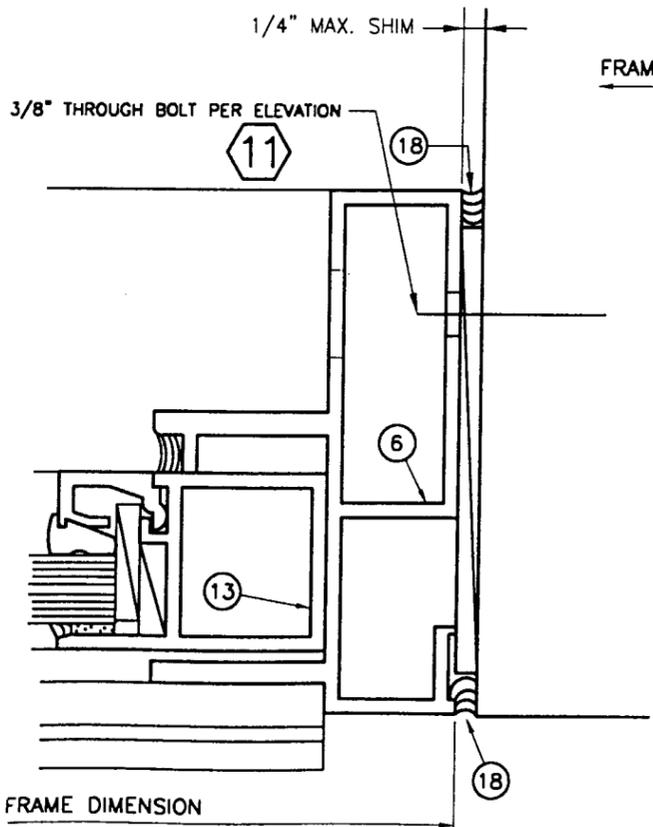
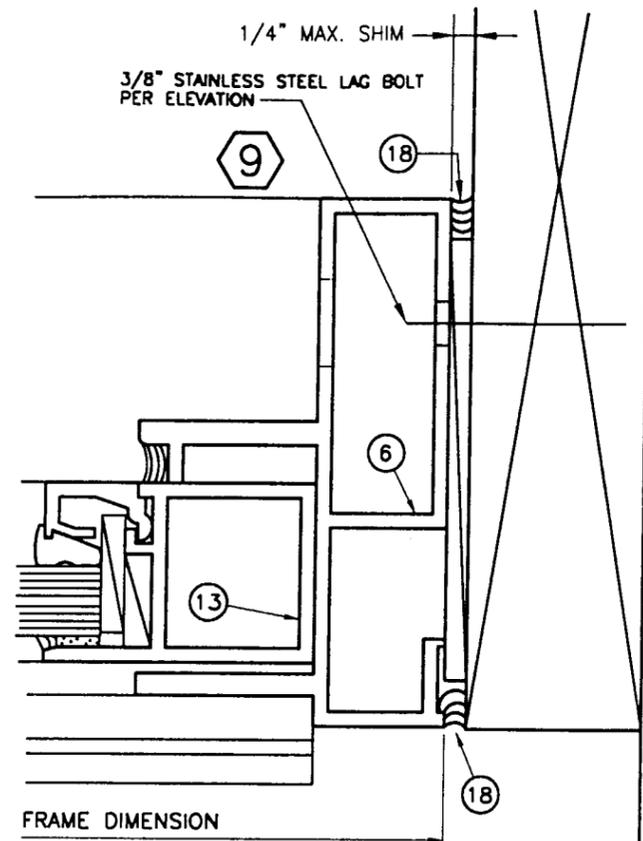
W.W. SCHAEFER JOB NO. 1038

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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	DATE	BY
A1	ADDED GLASS OPTION OF 0.06 INNER LAYER W/HEAT STRENGTHENED GLASS	06/19/02	WWS
DRAWING TITLE <b>S-3005 SLIDING GLASS DOOR (SMALL MISSILE IMPACT)</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>		MANUFACTURER <b>EFCO CORPORATION</b>	
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION <b>JAN 07 2003</b>		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. <b>96-1219-07</b>		REV.	
SHEET NO. <b>3</b>		<b>OF 5</b>	



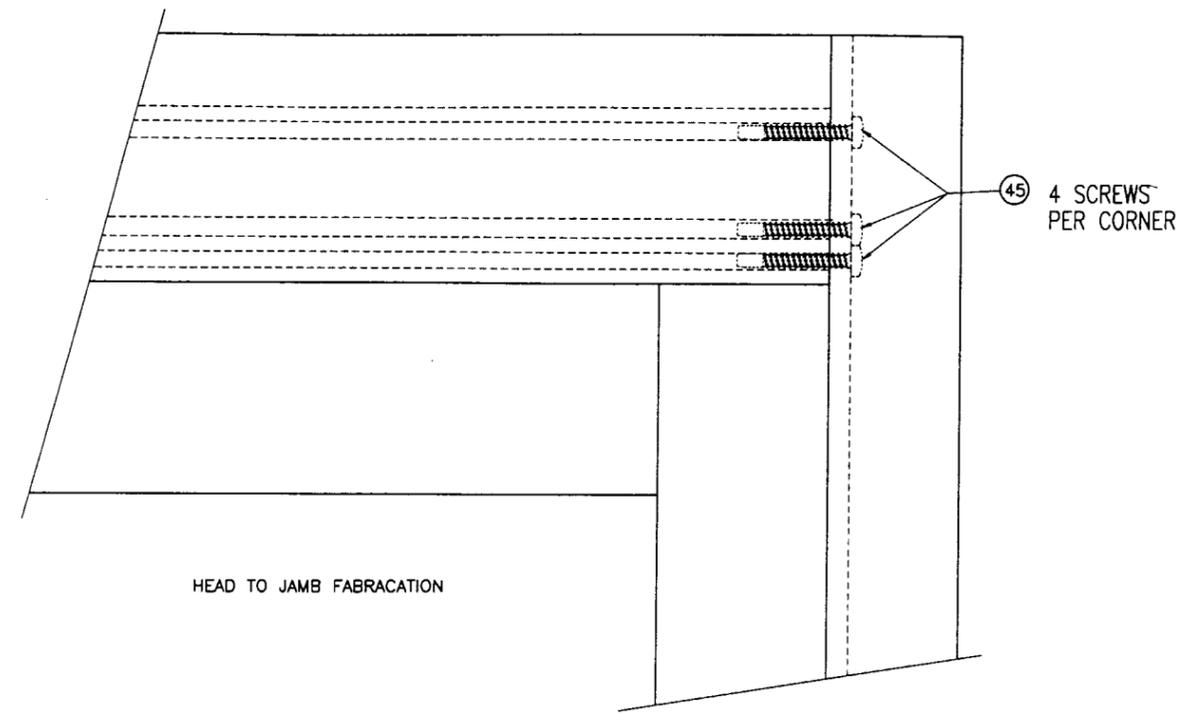
W.W. SCHAEFER JOB NO. 1038



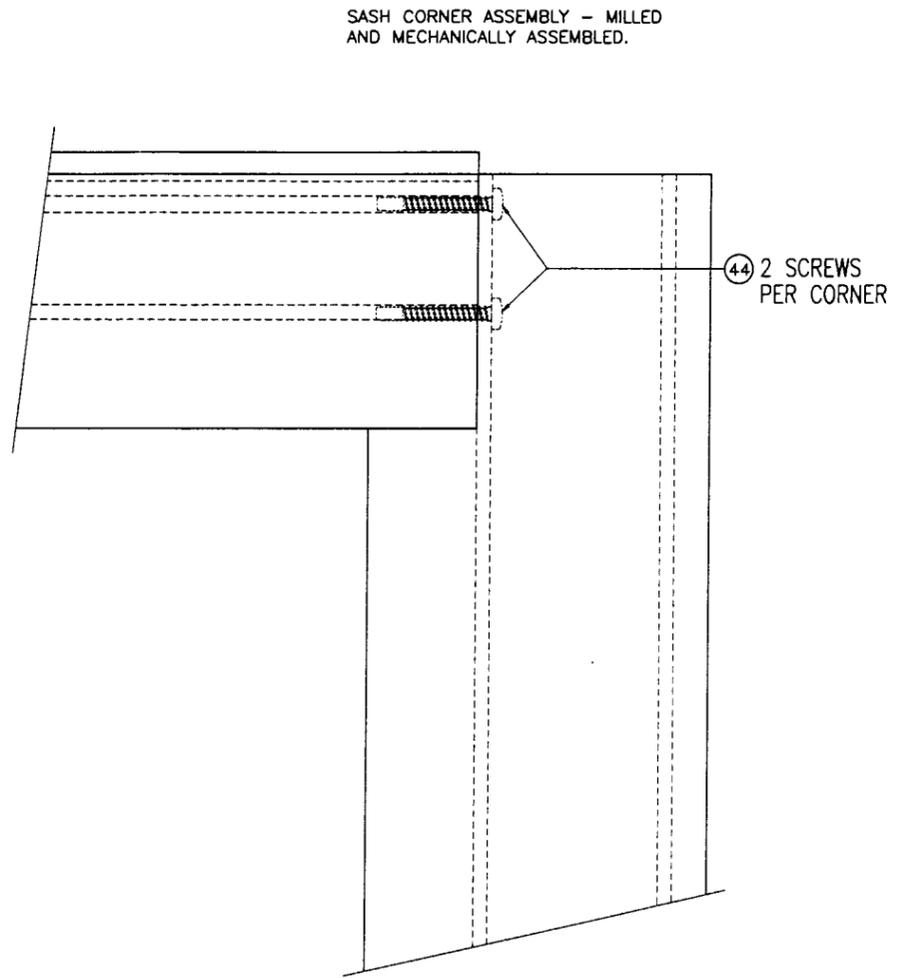
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-0722-02  
 Expiration Date OCTOBER 2006  
 By *Isaac L. Chaudh*  
 Miami Dade Product Control  
 Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=1.5		DATE: 02/13/01	
NO.	REVISION DESCRIPTION	BY	DATE
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CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION <b>JAN 07 2003</b>		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. <b>96-1219-07</b>		REV.	
SHEET NO. <b>4</b>		OF <b>5</b>	

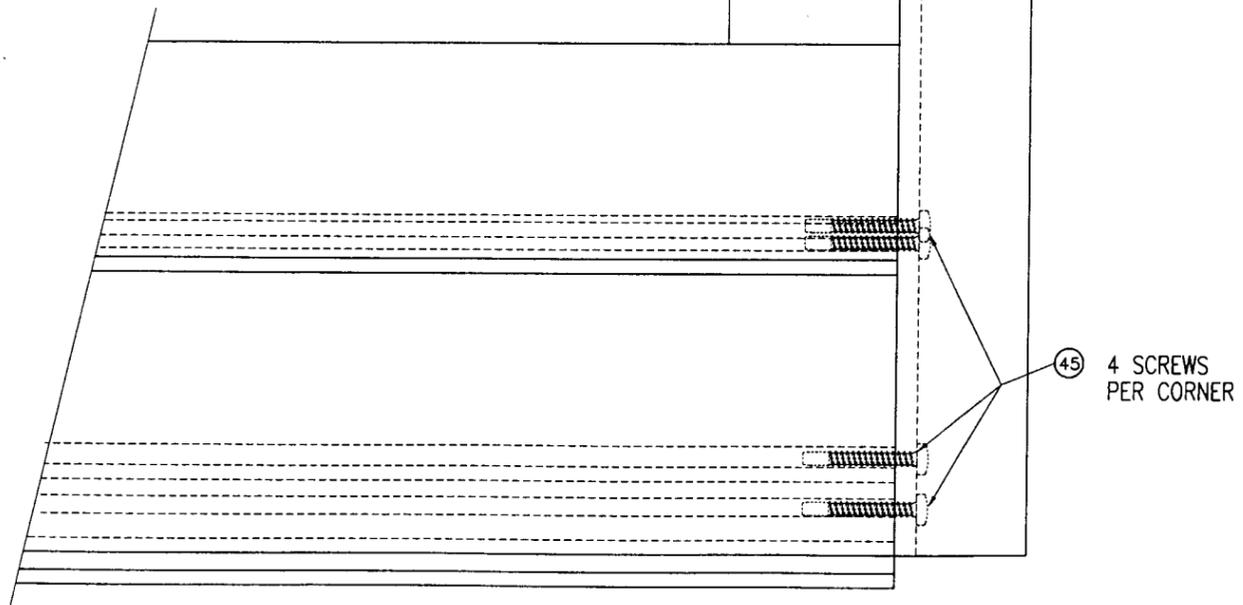
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1.5	DATE: 02/13/01
NO.	REVISION DESCRIPTION
BY	DATE



FRAME CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.



SILL TO JAMB FABRICATION



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

CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
600 SANDTREE DRIVE, SUITE 203B  
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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. 02-0722.02  
Expiration Date OCT 02, 2006

By Isaac J. Lhanda  
Miami Dade Product Control Division

CERTIFICATION  
**JAN 07 2003**

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