



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

EFCO Corporation
1000 County Road; P.O. Box 609
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 and accepted by Miami-Dade County PERA -Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "D300/318" Outswing Aluminum Entrance Door

APPROVAL DOCUMENT: Drawing No. **1185, Rev B1**, titled "D300/318 Outswing Small Missile Impact Door", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated SEP 30, 2011, signed and sealed by Warren 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 Section.

MISSILE IMPACT RATING: Small Missile Impact

Limitations:

1. Refer to lock item No(s) Vs design pressure in sheet 1. Lock item # 47 is applicable to Single door only.
2. When Door mulled with Curtain Wall (C.W.) System, lower design pressure of doors or C. W. shall control. Mullion loads & installation anchors to be reviewed by AHJ.
3. Min Three (3) Hinges required. Butt Hinges are located from 6-7/8" from top & 10-5/8" from bottom and one at mid panel. The Pivot hinges are located at top & bottom of panel and one intermediate at mid panel. Nominal panel is 1" shorter than frame height (FH) and 2" shorter than frame width (FW).

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series 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 # **08-0131.07** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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

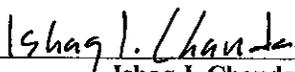


NOA No 11-1006.09
Expiration Date: April 10, 2013
Approval Date: November 17, 2011
Page 1

11/8/11

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

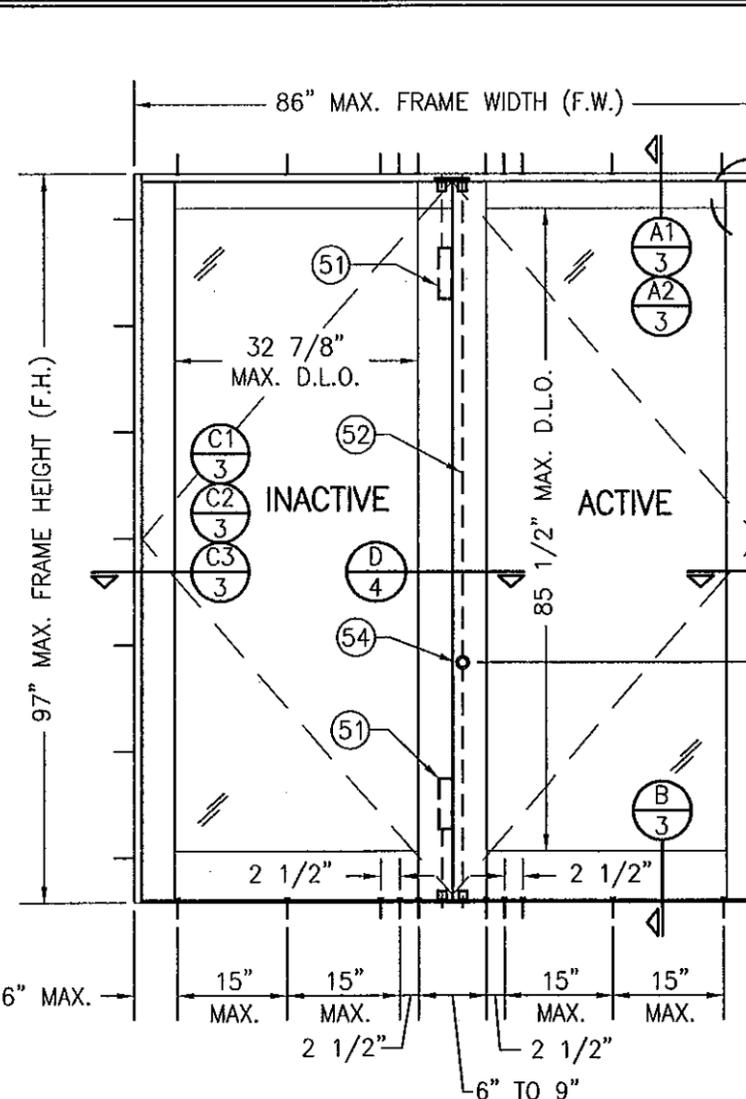
- A. DRAWINGS** (transferred from file # **08-0131.07**)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **1185, Rev B1**, titled "D300/318 Outswing Small Missile Impact Door", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated SEP 30, 2011, signed and sealed by Warren Schaefer, P.E.
- B. TESTS** (Original in file # 02-1219.08 / 08-0131.07) original test conducted per SFBC, PA 201. 202 & 203-94, now known as FBC, TAS 201, 202 & 203-94.
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) Small Missile Impact Test per FBC, TAS 201-94
 - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 5) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an outswing aluminum door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0046-1217-01 dated 12/11/01, HTL 0046-0315-02 dated 3/20/02 and HTL 0046-1018-02 dated 10/8/02, all signed and sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Statement letter of compliance to FBC 2007 and 2010, dated SEP 26, 2011, prepared, signed and sealed by Warren Schaefer, P.E.
 2. Anchor Calculations and structural analysis complying w/ FBC 2004 & 2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 05/08/2008, signed and sealed by Warren Schaefer, P.E. (submitted as part of file # **08-0131.07**)
 3. Glazing complies w/ ASTM E-1300-02 & -04
- D. QUALITY ASSURANCE**
1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **11-0624.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB Interlayer**", expiring on 12/11/16.
 2. Notice of Acceptance No. **09-0127.13** issued to Solutia, for "Solutia interlayer for laminated glass", expiring on 03/04/2014.
- F. STATEMENTS**
1. Statement letter of compliance to FBC 2007 and 2010, dated SEP 26, 2011, prepared, signed and sealed by Warren Schaefer, P.E.
 2. Statement letter of conformance & no financial interest, dated 05/08/08, signed and sealed by Warren Schaefer, P.E. (from file # **08-0131.07**)
 3. Laboratory compliance statement, part of above referenced test reports.
- G. OTHER**
1. This NOA revises NOA # **08-0131.07**, expiring on April 10, 2013.



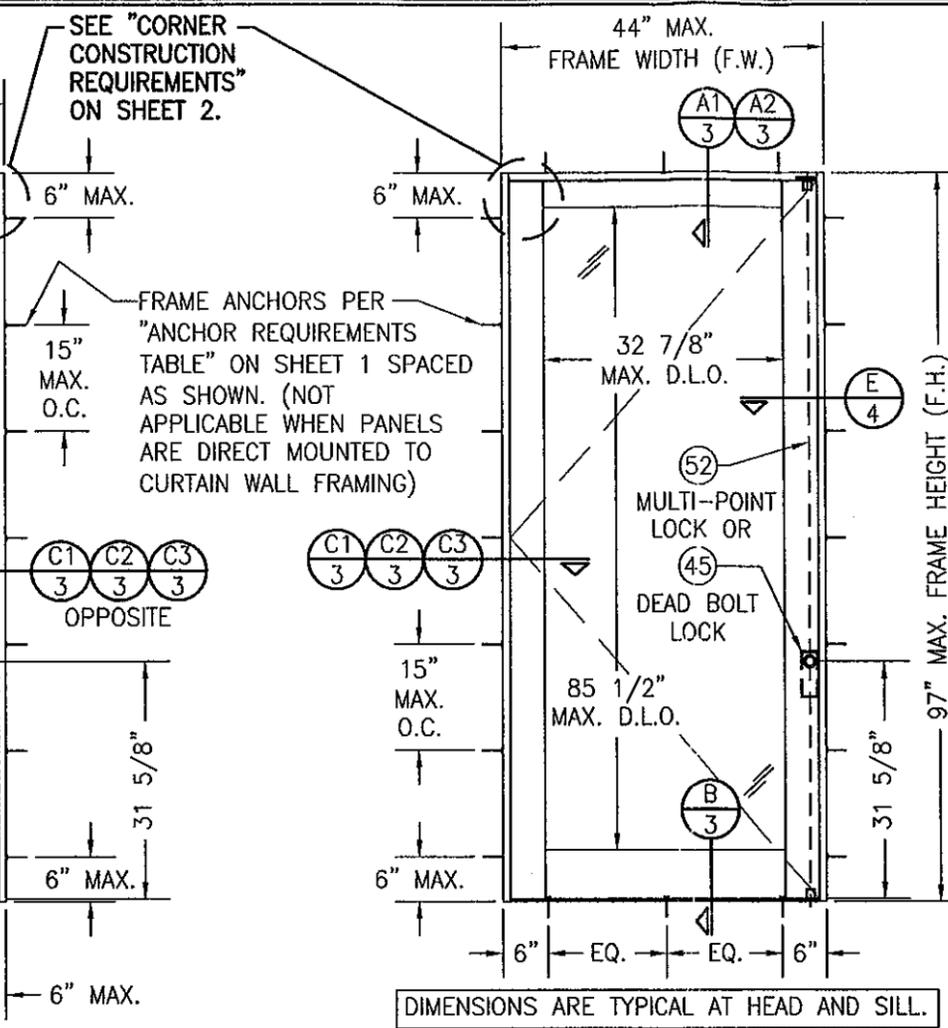
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-1006.09
Expiration Date: April 10, 2013
Approval Date: November 17, 2011

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

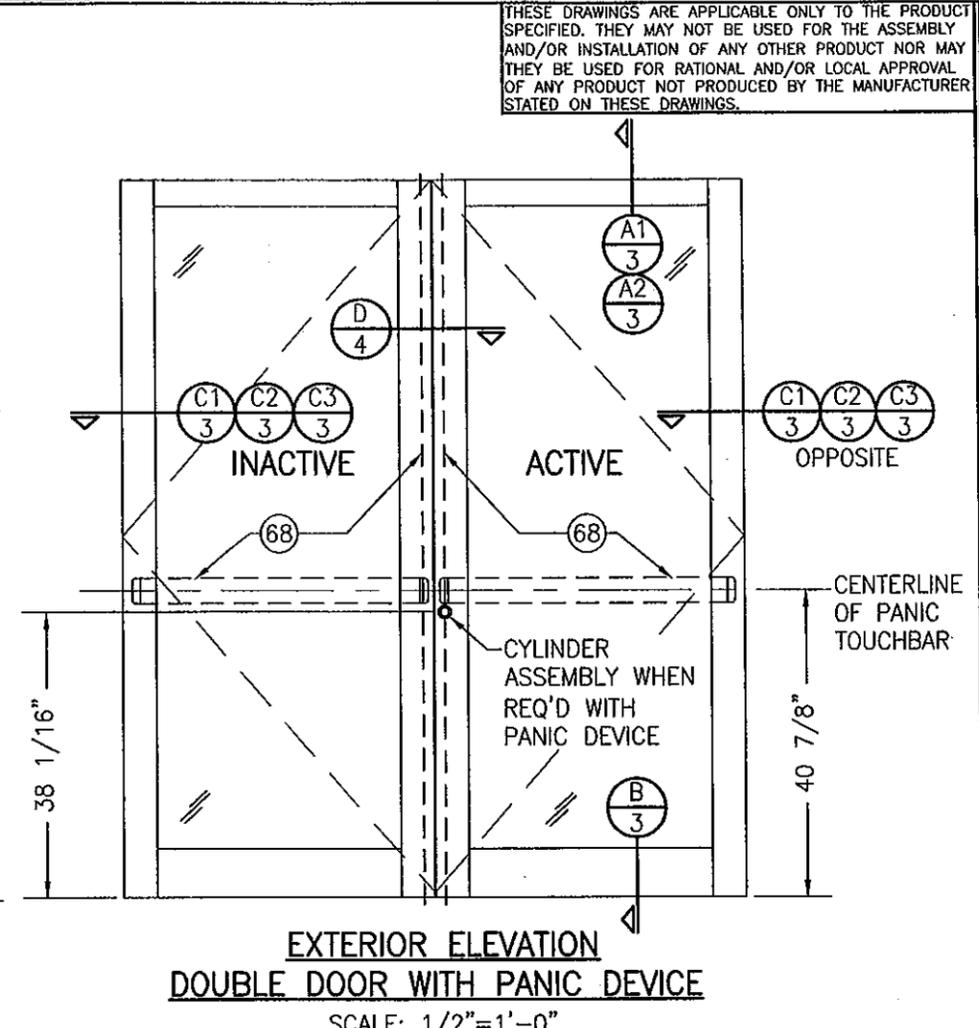
DRAWN BY:	T.J.W.	CHECKED BY:	W.W.S.
PLOT:	1-24	DATE:	05/20/08
DATE:	05/08/08	DATE:	09/27/11
BY:	W.W.S.	BY:	W.W.S.
REVISION DESCRIPTION	NO.	NO.	NO.
UPDATE TO PRESENT STANDARDS	A1	UPDATE TO CURRENT STANDARDS	B1



**EXTERIOR ELEVATION
DOUBLE OPERABLE DOOR**
SCALE: 1/2"=1'-0"



**EXTERIOR ELEVATION
SINGLE OPERABLE DOOR**
SCALE: 1/2"=1'-0"



**EXTERIOR ELEVATION
DOUBLE DOOR WITH PANIC DEVICE**
SCALE: 1/2"=1'-0"
ONLY PANELS SHOWN.
SEE OTHER ELEVATIONS FOR DIMENSIONS
AND DETAILS FOR DOOR ASSEMBLY & INSTALLATION.

PRODUCT REVISED
in compliance with the Florida
Building Code
Assignment No. 11-1006.09
Expiration Date APR 10, 2013
Isaac I. Chavira
Special Trade Product Control

- GENERAL NOTES:**
1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT DOORS.
 5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 6. WHEN GLAZED FOR SMALL MISSILE IMPACT, THESE DOORS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
 7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
 9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

ALLOWABLE DESIGN LOAD		
WITH LOCK ITEM NO.	(*) POSITIVE (PSF)	NEGATIVE (PSF)
51/52	90	90
68	90	90
45	60	60

(*) THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 12 GA. A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.118" THICK 6063-T6 ALUMINUM CURTAIN WALL	SEE CROSS SECTIONS FOR ANCHORS REQUIRED	FULL	N/A
(3) C-90 CMU	(1) (2) 1/4" CONCRETE SCREW OR WEDGE ANCHOR	1 1/4"	2"
MIN. 3000 PSI CONCRETE	(1) (2) 1/4" CONCRETE SCREW OR WEDGE ANCHOR	1 1/4"	2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) WEDGE ANCHORS SHALL BE ITW RAMSET/RED HEAD DYNABOLTS OR HILTI KWIK-BOLT 3 (STEEL OR S.S.).
- (3) CMU IS ONLY APPLICABLE AT THE SIDES OF THE DOOR OPENING. CONCRETE WILL APPLY AT ALL SIDES.

D300/318 OUTSWING SMALL MISSILE IMPACT DOOR

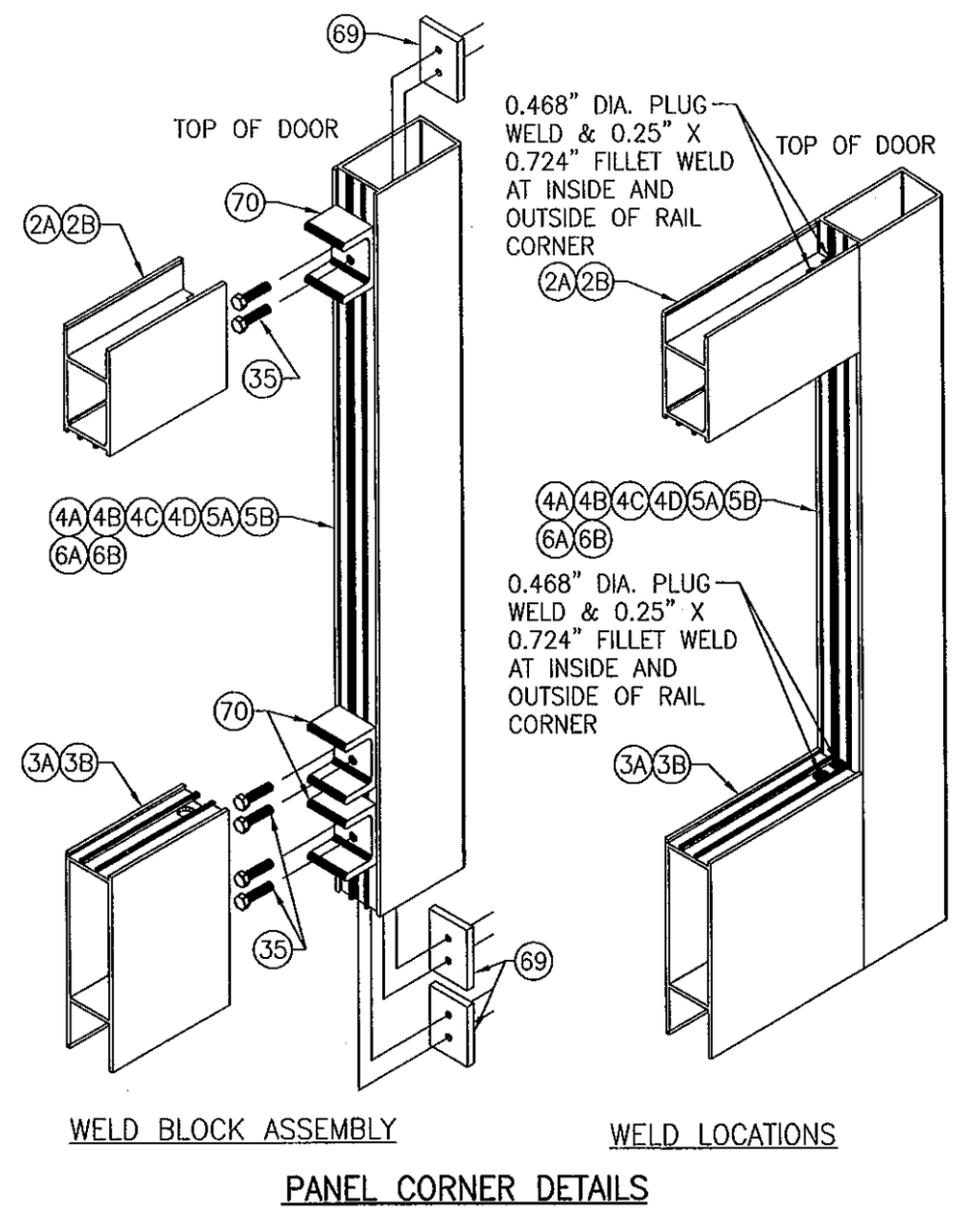
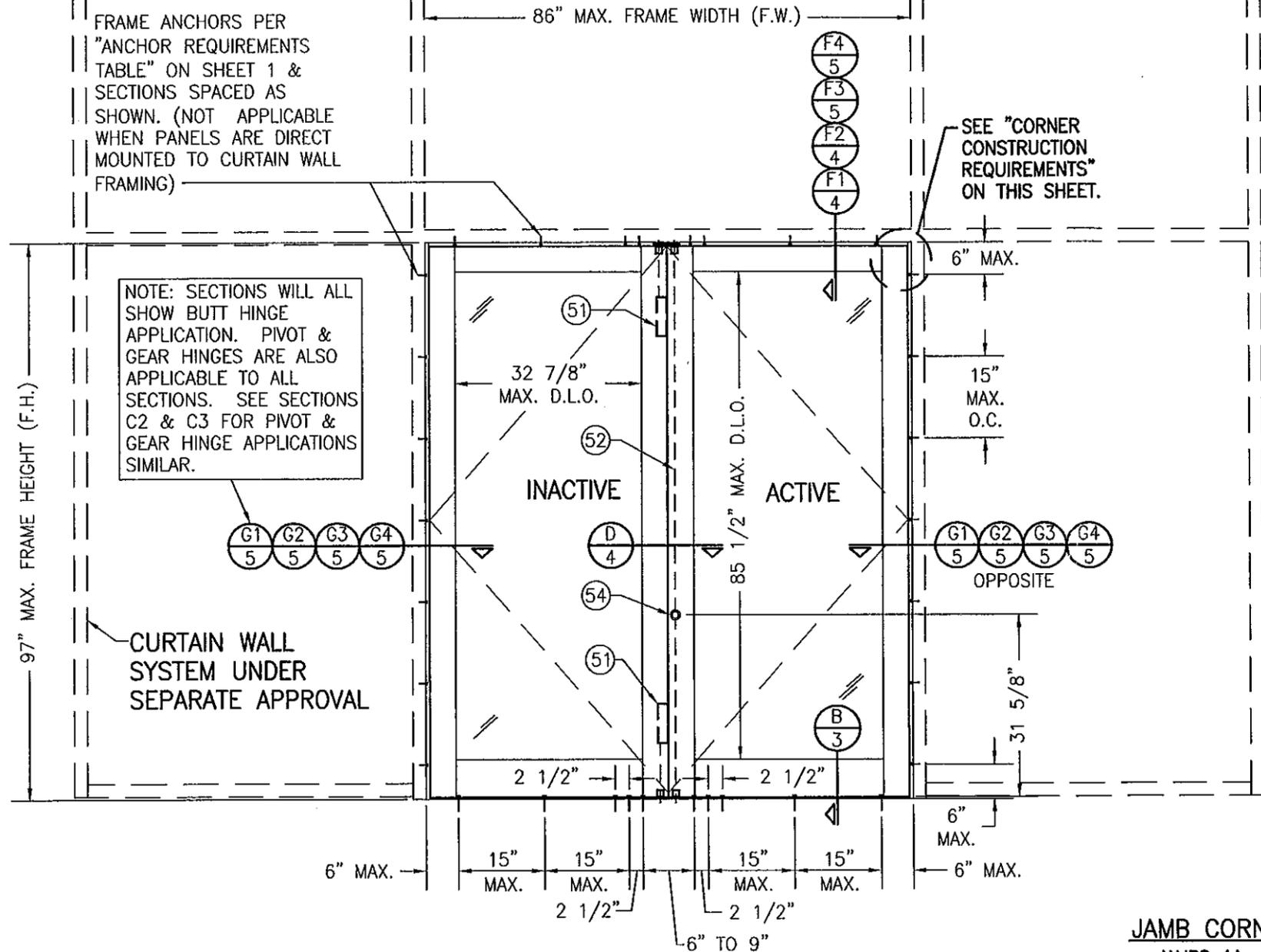
MANUFACTURER
EFCO CORPORATION
1000 COUNTY ROAD; P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

CONSULTANTS
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, 33418
PALM BEACH GARDENS, FL
PHONE: 561-744-3424

DRAWING TITLE

PROFESSIONAL ENGINEER
SEP 20 2009
W. SCHAEFER
P.E. NO. 12513

DRAWING NO. 1185
SHEET NO. 1 OF 8



JAMB CORNER CONSTRUCTION:

JAMBS 1A:

SIDE TO HEAD JAMB: HEAD JAMBS ARE SQUARE CUT & BUTTED BETWEEN ADJACENT SIDE JAMBS. EACH JAMB IS MECHANICALLY FASTENED TO THE HEAD MEMBER USING (2) 1/4-14 X 1" HWH SMS.

SIDE JAMB TO SILL: SILLS ARE SQUARE CUT & INSERTED BETWEEN ADJACENT SIDE JAMBS.

JAMBS 1B, 1C & 1D:

SIDE TO HEAD JAMB: FRAME MEMBERS ARE SQUARE CUT, BUTTED TOGETHER & SECURED TO THE OPENING WITH FRAME SCREWS (NO CORNER FASTENING).

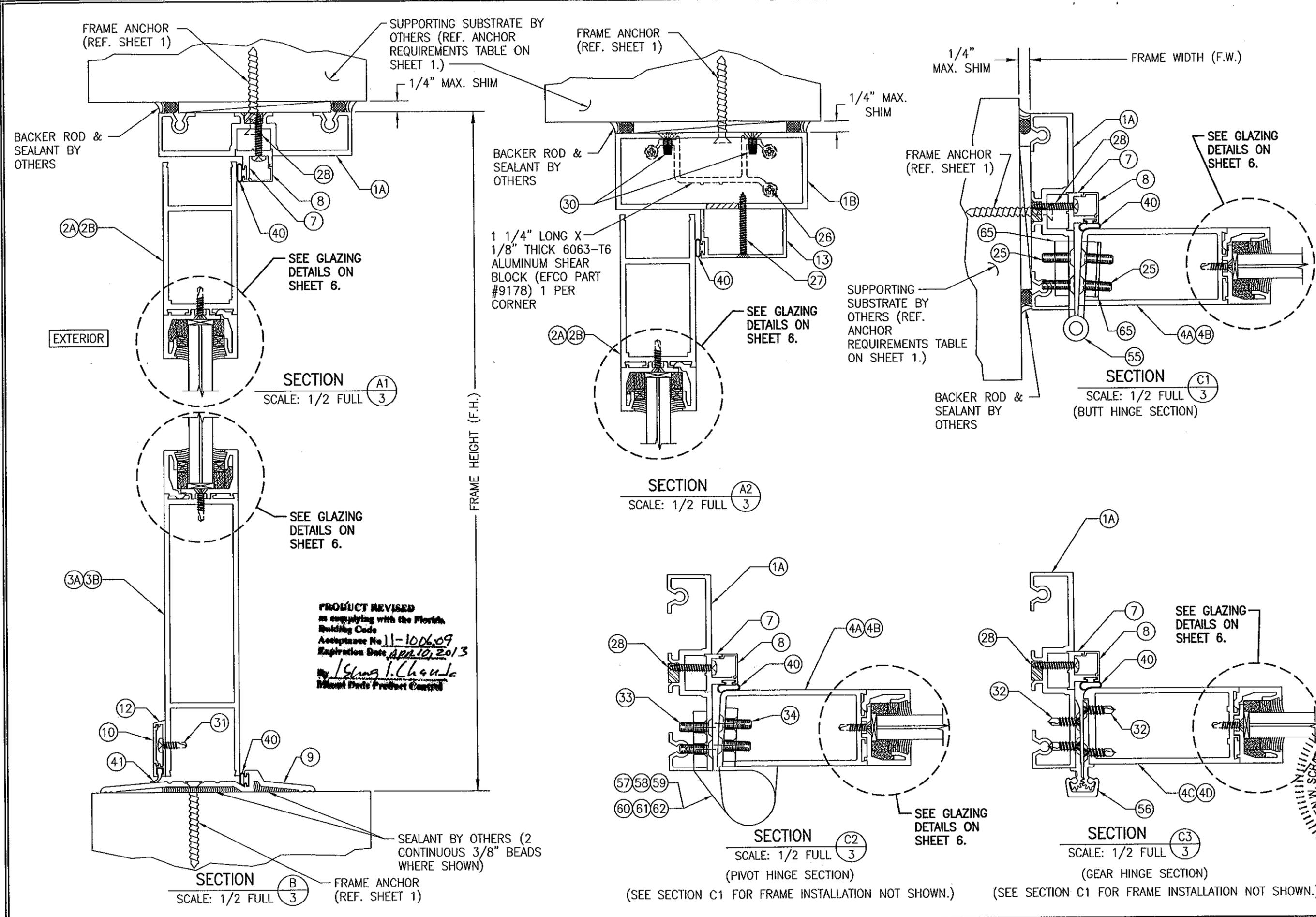
SIDE JAMB TO SILL: SILLS ARE SQUARE CUT & INSERTED BETWEEN ADJACENT SIDE JAMBS.

DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/20/08	
NO.	REVISION DESCRIPTION	DATE	BY
D300/318 OUTSWING SMALL MISSILE IMPACT DOOR MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169			
CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING TITLE D300/318 OUTSWING SMALL MISSILE IMPACT DOOR			
PROFESSIONAL ENGINEER W. SCHAEFER No. 44135 STATE OF FLORIDA No. 44135			
DRAWING NO.	REV.	SHEET NO.	
1185	B	2 OF 8	

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1006-09
 Expiration Date APR 10, 2013
 By: *Ishag I. Chande*
 Miami Dade Product Control

DIMENSIONS ARE TYPICAL AT HEAD AND SILL.

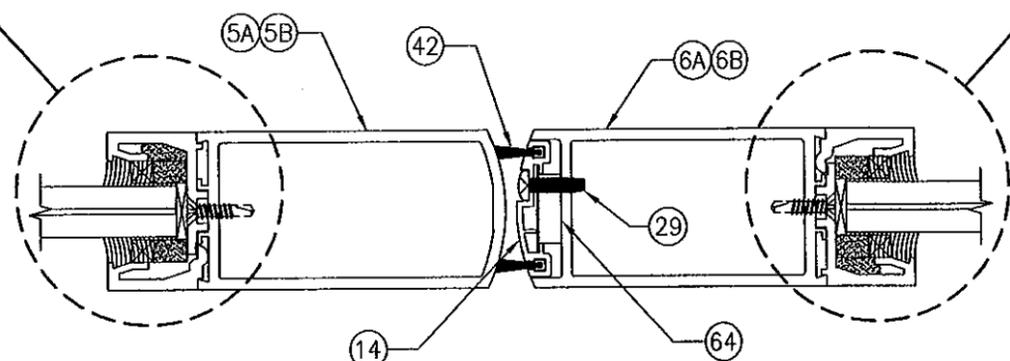
EXTERIOR ELEVATION
DOUBLE OPERABLE DOOR WITH CURTAIN WALL SYSTEM
 SCALE: 1/2"=1'-0"



PRODUCT REVISED
 in complying with the Florida
 Building Code
 Acceptance No. 11-100609
 Expiration Date APR 10, 2013
 By *[Signature]*
 Manual Data Product Control

DRAWN BY: T.J.W. CHECKED BY: W.W.S. PLOT: 1=2 DATE: 05/20/08	NO. REVISION DESCRIPTION BY DATE
D300/318 OUTSWING SMALL MISSILE IMPACT DOOR	
MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING TITLE D300/318 OUTSWING SMALL MISSILE IMPACT DOOR	
CERTIFICATION No. 44735 SEP 30 2011 STATE OF FLORIDA W. SCHAEFER PROFESSIONAL ENGINEER	
DRAWING NO. 1185	REV. B
SHEET NO. 3 OF 8	

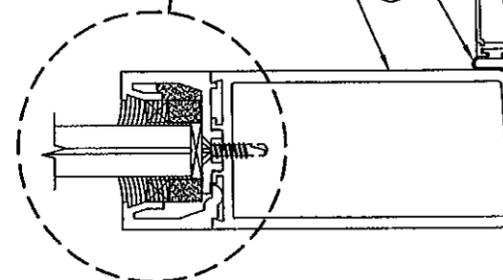
SEE GLAZING
DETAILS ON
SHEET 6.



SECTION **D**
SCALE: 1/2 FULL **4**

SEE GLAZING
DETAILS ON
SHEET 6.

SEE GLAZING
DETAILS ON
SHEET 6.



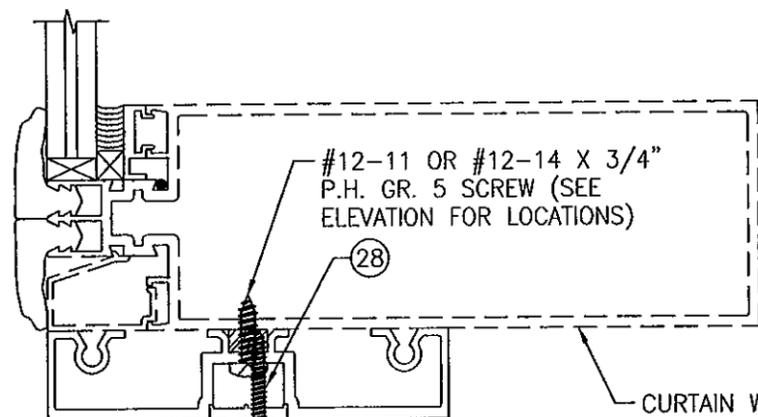
SECTION **E**
SCALE: 1/2 FULL **4**
(SHOWN WITH FRAME **1A**); ALL OTHER
FRAMES ALSO APPLICABLE)

FRAME WIDTH (F.W.) 1/4" MAX. SHIM

FRAME ANCHOR
(REF. SHEET 1)

SUPPORTING
SUBSTRATE BY
OTHERS (REF.
ANCHOR
REQUIREMENTS TABLE
ON SHEET 1.)

BACKER
ROD &
SEALANT
BY OTHERS

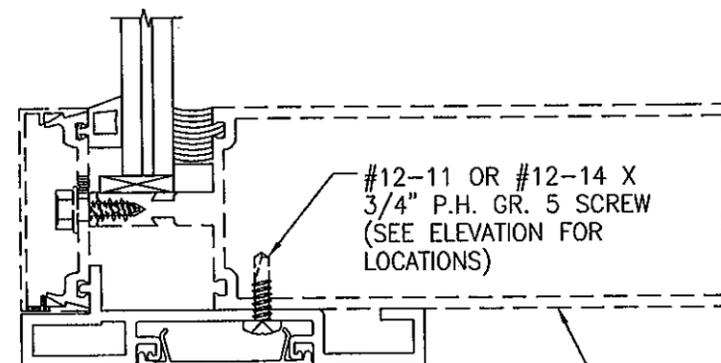


SECTION **F1**
SCALE: 1/2 FULL **4**

(STANDARD FRAME **1A**) TO GENERIC CURTAIN WALL

CURTAIN WALL
FRAMING UNDER
SEPARATE APPROVAL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1206-09
Expiration Date April, 2013
By: [Signature]
Product Control



SECTION **F2**
SCALE: 1/2 FULL **4**

(FRAME **1C**) TO EFCO 5600 CURTAIN WALL

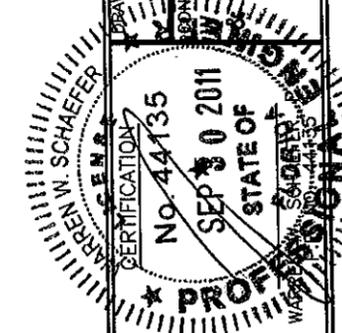
EFCO'S 5600
CURTAIN WALL
FRAMING UNDER
SEPARATE APPROVAL

DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 05/20/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	

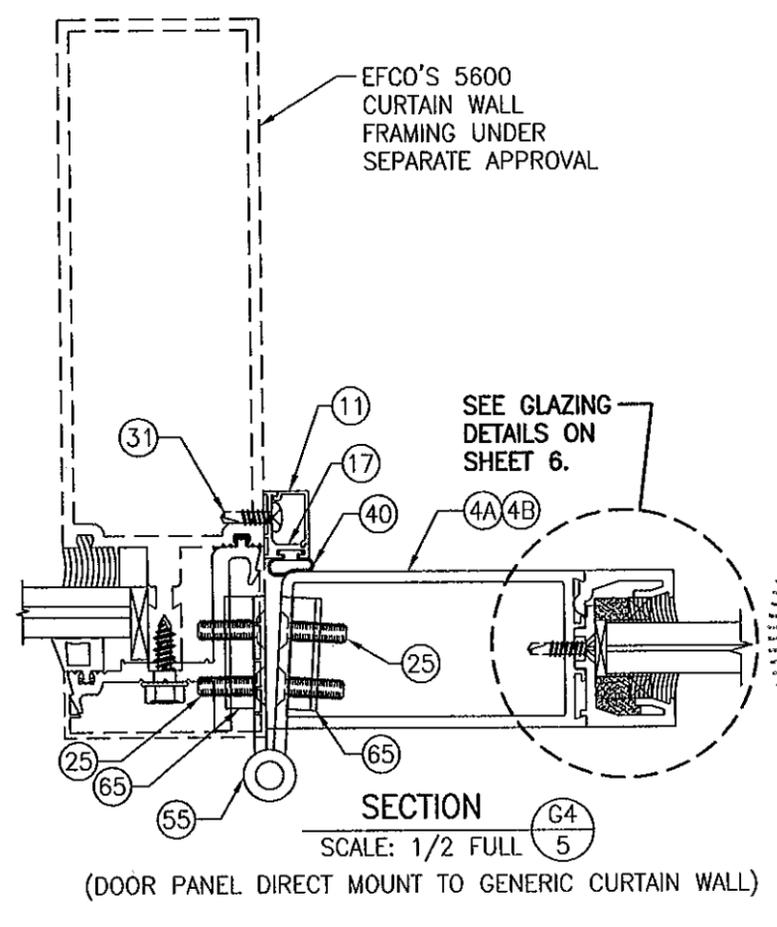
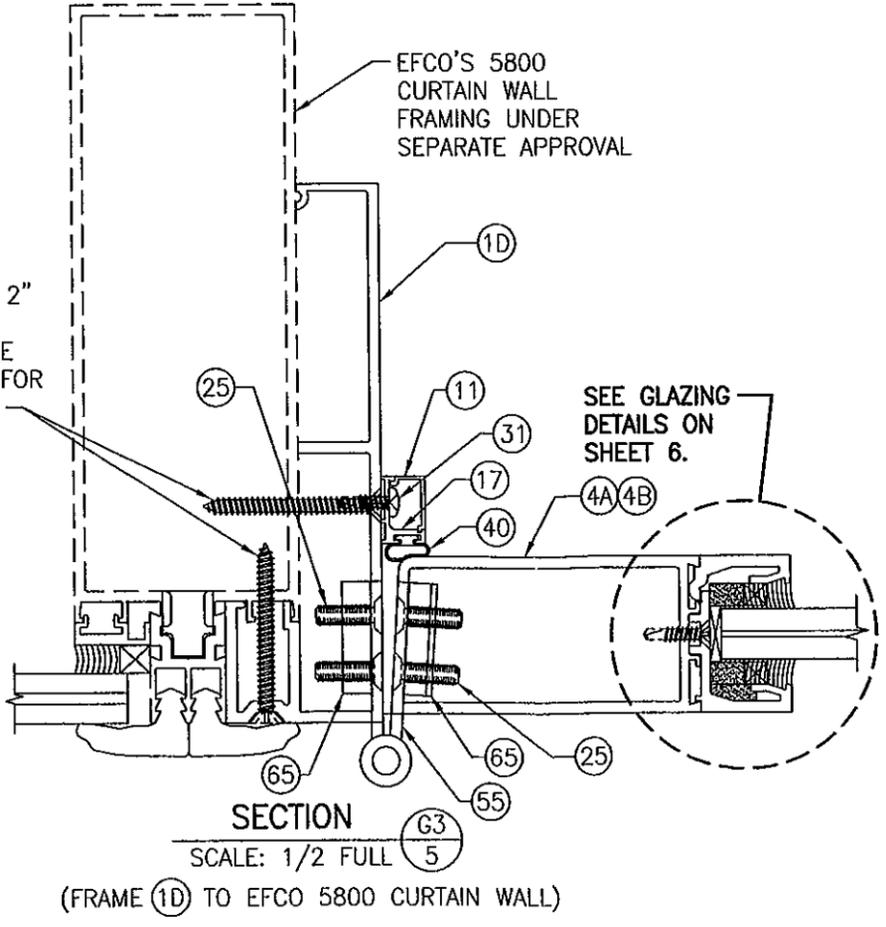
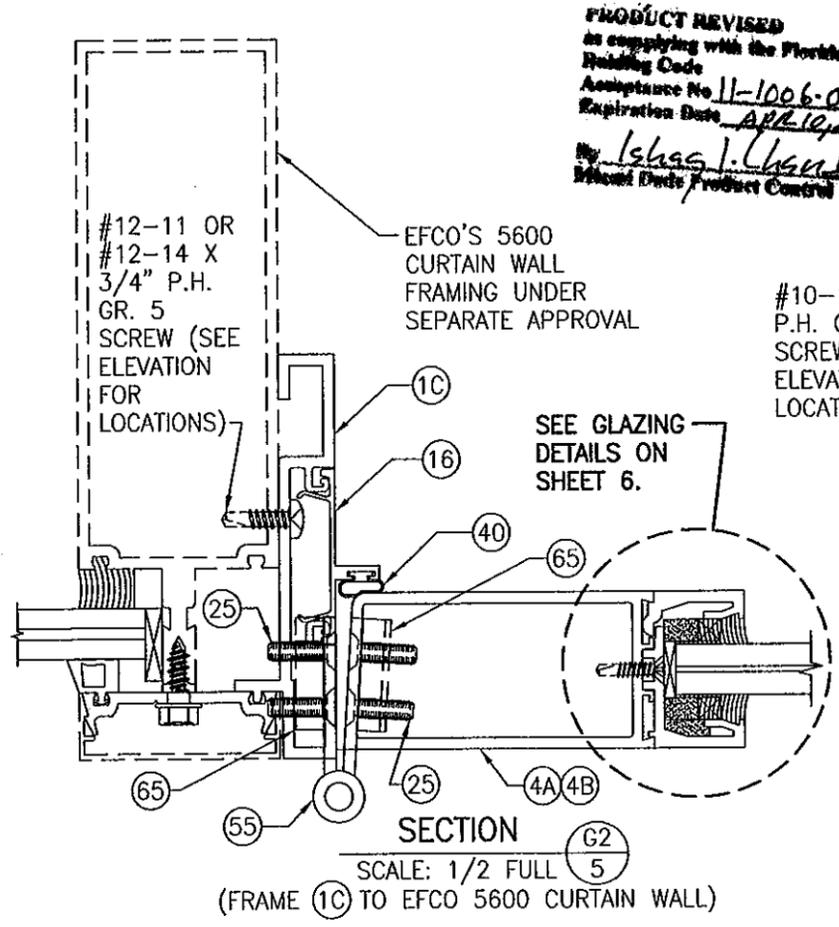
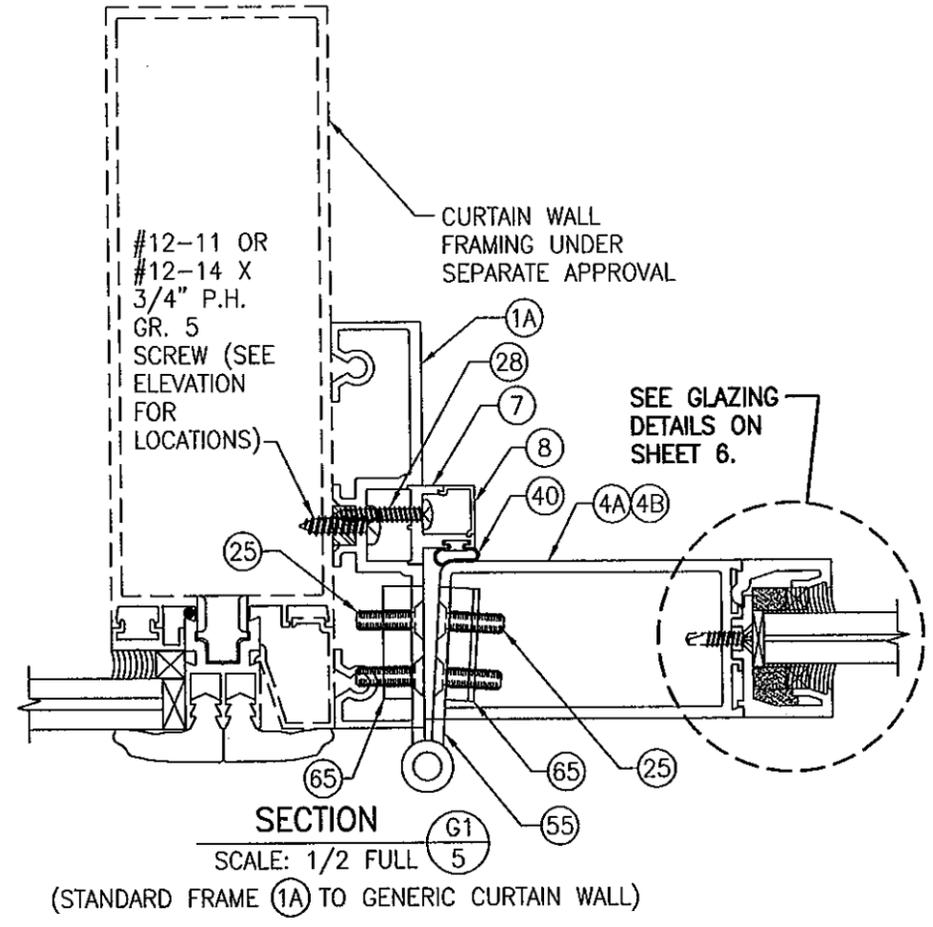
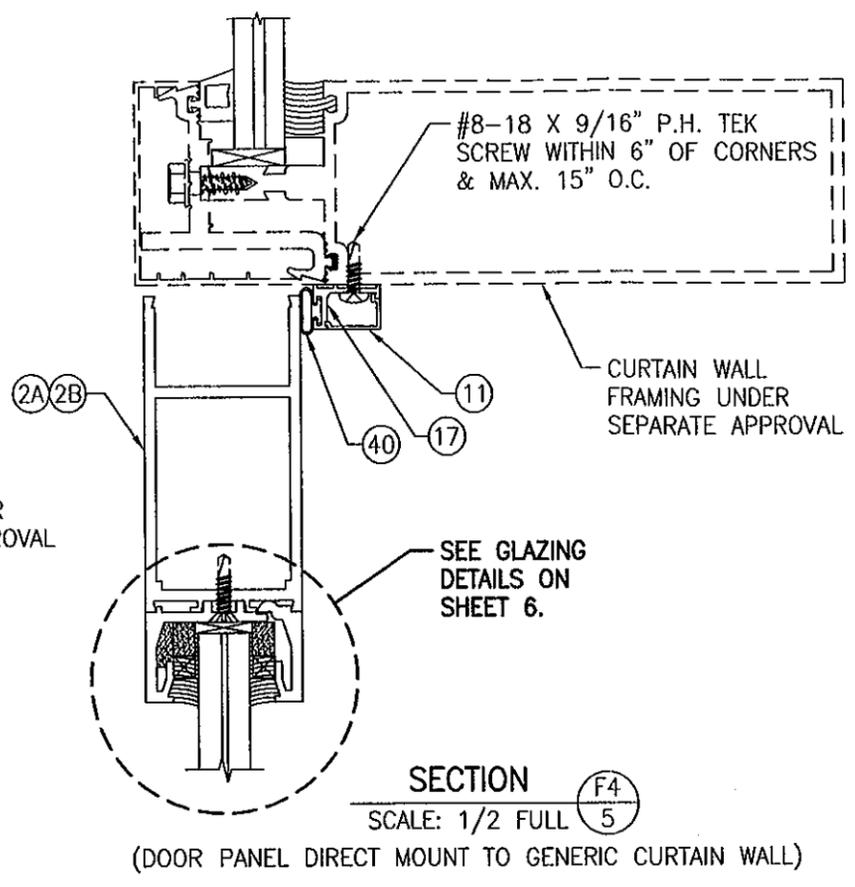
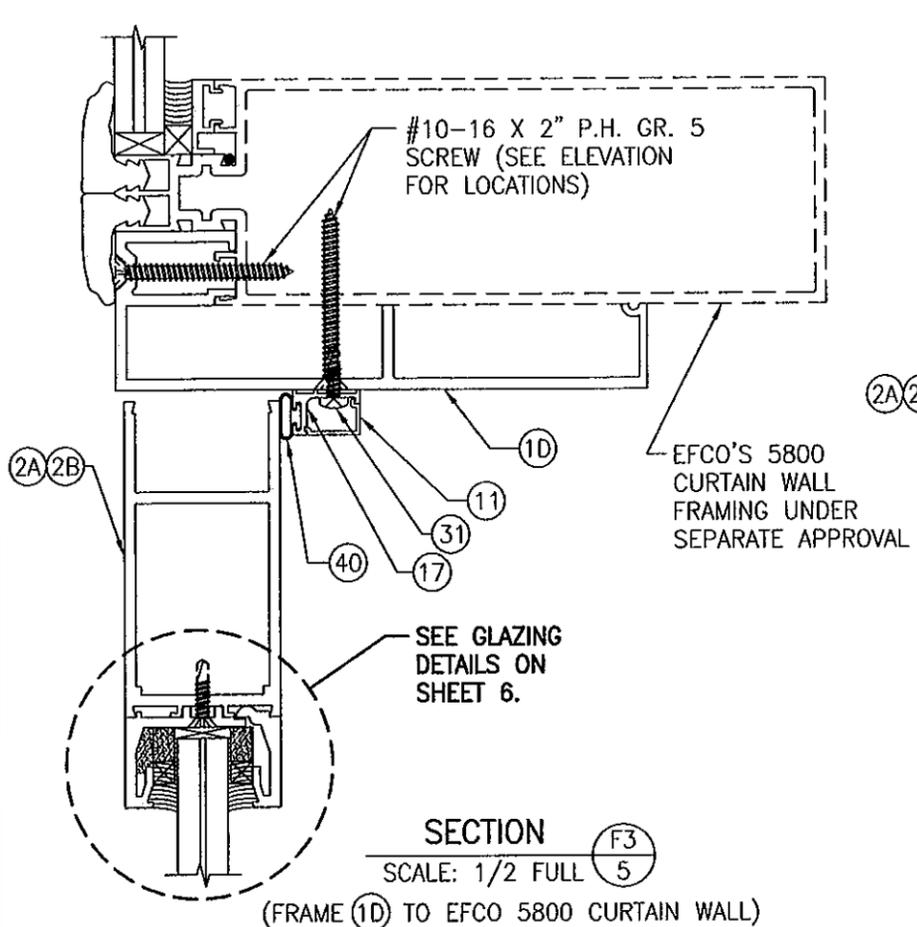
D300/318 OUTSWING SMALL MISSILE IMPACT DOOR

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

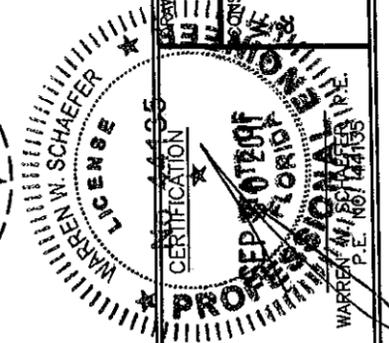
CONSULTANTS
**W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)**
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424



DRAWING NO. 1185	REV. B
SHEET NO. 4 OF 8	

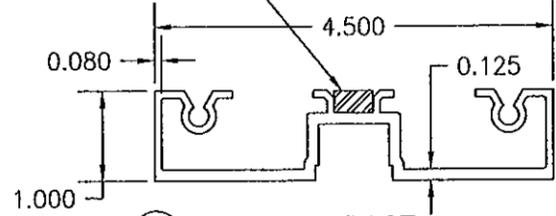


PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1006-09
 Expiration Date: APR 10, 2013
 By: Ishag I. Ussak
 Product Control

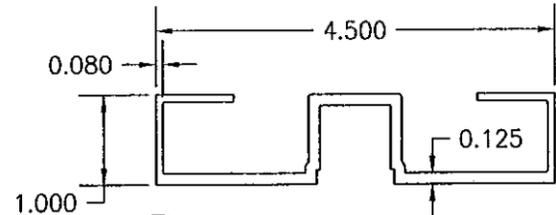


DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/20/08
NO.	REVISION DESCRIPTION
DATE	BY
D300/318 OUTSWING SMALL MISSILE IMPACT DOOR	
MANUFACTURER	EFCO CORPORATION
CONSULTANTS	1000 COUNTY ROAD; P.O. BOX 609
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MONETT, MO 65708-0609
7480 150TH COURT NORTH	800-221-4169
PALM BEACH GARDENS, FL 33418	
PHONE: 561-744-3424	
DRAWING TITLE	D300/318 OUTSWING SMALL MISSILE IMPACT DOOR
DRAWING NO.	1185
REV.	B
SHEET NO.	5 OF 8

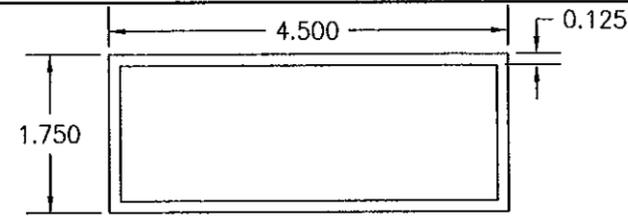
0.25" X 0.43 CONTINUOUS ALUMINUM BAR FULLY ADHERED TO JAMB



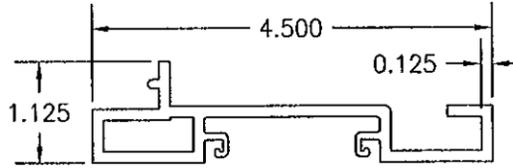
①A S5600 IMPACT HEAD JAMB (OPTION 1)



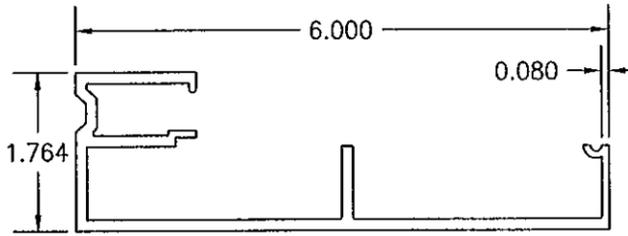
①A S5600 IMPACT HEAD JAMB (OPTION 2)



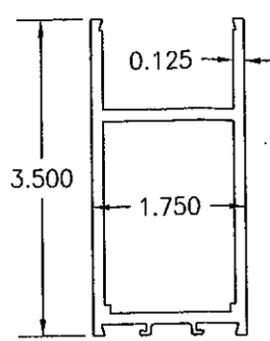
①B OPTIONAL HEAD JAMB



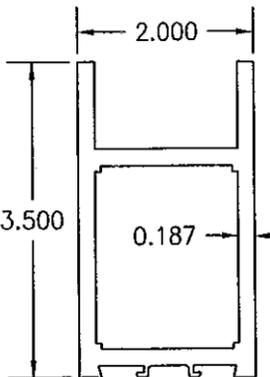
①C S5600 HEAD JAMB



①D S5800 HEAD JAMB



②A D300 TOP RAIL



③A D300 BOTTOM RAIL

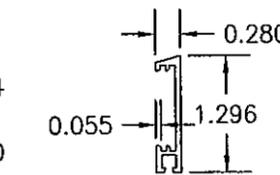
②B D318 TOP RAIL

②B D318 TOP RAIL

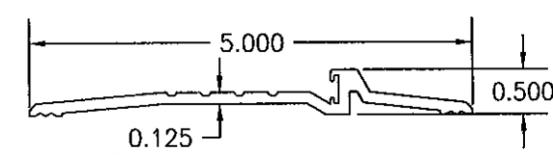
⑦ S5600 HORIZ. IMPACT DOOR STOP

⑩ DOOR SWEEP COVER

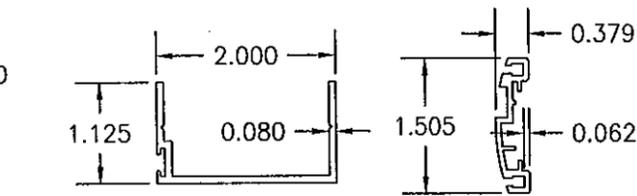
⑪ DOOR STOP COVER



⑫ DOOR SWEEP

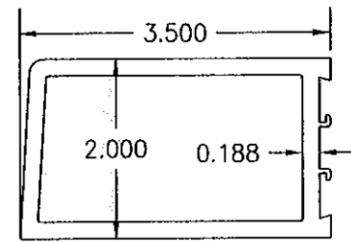


⑨ THRESHOLD

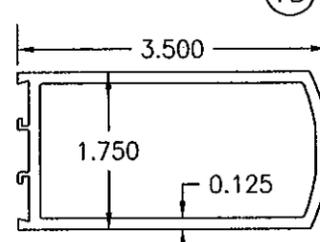


⑬ C.O.C. SLIDE ARM COVER

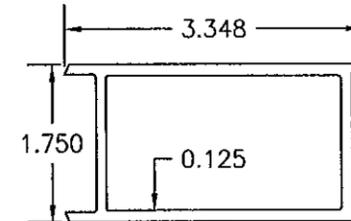
⑭ ADJUSTABLE ASTRAGAL



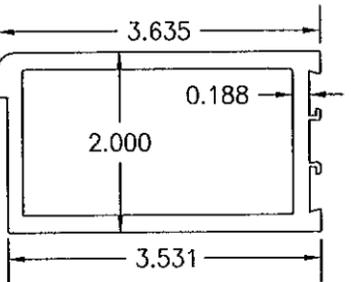
④B D318 FIXED STILE



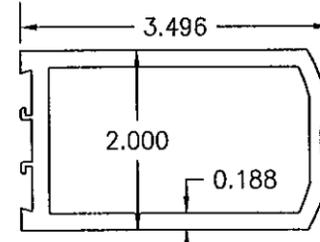
⑤A D300 INACTIVE LOCKING STILE



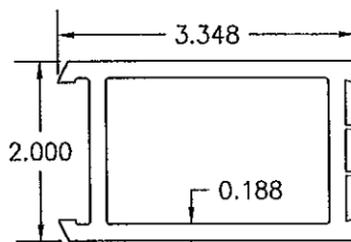
⑥A D300 ASTRAGAL/ACTIVE LOCKING STILE



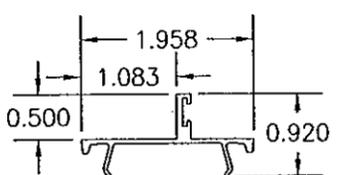
④D D318 CONTINUOUS HINGE STILE



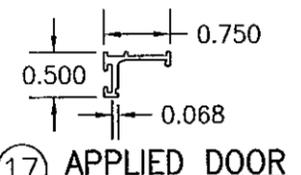
⑤B D318 INACTIVE LOCKING STILE



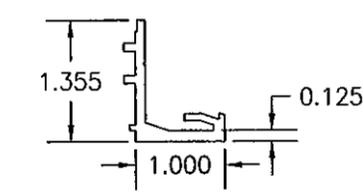
⑥B D318 ACTIVE LOCK STILE



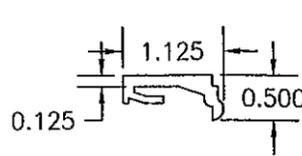
⑬ SNAP-IN DOOR STOP



⑬ APPLIED DOOR STOP

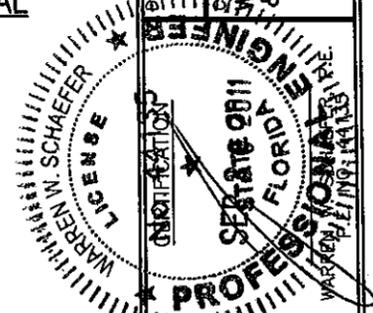


⑬ FIXED IMPACT GLASS STOP-1" GLAZING



⑬ REMOVABLE IMPACT GLASS STOP

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 11-1006-09
 Expiration Date APR 10, 2013
 W. Schaefer Engineering & Consulting, P.A.
 W. Schaefer



DRAWN BY:	T.J.W.	CHECKED BY:	W.W.S.
PLOT:	1-2	DATE:	05/20/08
NO.		REVISION DESCRIPTION	
BY	DATE		

D300/318 OUTSWING SMALL MISSILE IMPACT DOOR
 MANUFACTURER
 EFCO CORPORATION
 1000 COUNTY ROAD, P.O. BOX 609
 MONETT, MO 65708-0609
 800-221-4169

CONSULTANTS
 W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH, 33418
 PALM BEACH GARDENS, FL
 PHONE: 561-744-3424

DRAWING NO.	1185	REV.	B
SHEET NO.	7	OF	8

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	3659	S5600 IMPACT DOOR HEADER	EFCO; 6063-T6 ALUMINUM
1B	EZ07	1 3/4" X 4 1/2" C.O.C. DOOR HEADER	EFCO; 6063-T6 ALUMINUM
1C	8844	S5600 5/8" DOOR HEADER FOR 1" C.W. GLZ.	EFCO; 6063-T6 ALUMINUM
1D	5596	S5800 HEADER 6" SYS. DEPTH-1" GLZ.	EFCO; 6063-T6 ALUMINUM
2A	9030	D300 TOP RAIL	EFCO; 6063-T6 ALUMINUM
2B	9034	D318 TOP RAIL	EFCO; 6063-T6 ALUMINUM
3A	9031	D300 BOTTOM RAIL	EFCO; 6063-T6 ALUMINUM
3B	9035	D318 BOTTOM RAIL	EFCO; 6063-T6 ALUMINUM
4A	9002	D300 HINGE/PIVOT/LOCK STILE	EFCO; 6063-T6 ALUMINUM
4B	9013	D318 FIXED STILE	EFCO; 6063-T6 ALUMINUM
4C	8449	D300 CONTINUOUS HINGE STILE	EFCO; 6063-T6 ALUMINUM
4D	8451	D318 CONTINUOUS HINGE STILE	EFCO; 6063-T6 ALUMINUM
5A	9010	D300 INACTIVE LOCKING STILE	EFCO; 6063-T6 ALUMINUM
5B	9014	D318 INACTIVE LOCKING STILE	EFCO; 6063-T6 ALUMINUM
6A	9009	D300 ASTRAGAL/ACTIVE LOCKING STILE	EFCO; 6063-T6 ALUMINUM
6B	9015	D318 ACTIVE LOCKING STILE	EFCO; 6063-T6 ALUMINUM
7	3677	S5600 HORIZONTAL IMPACT DOOR STOP	EFCO; 6063-T6 ALUMINUM
8	3678	S5600 HORIZ./VERTICAL IMPACT DOOR STOP COVER	EFCO; 6063-T6 ALUMINUM
9	8924	D300 THRESHOLD	EFCO; 6063-T6 ALUMINUM
10	9961	DOOR SWEEP COVER	EFCO; 6063-T6 ALUMINUM
11	9155	DOOR STOP COVER	EFCO; 6063-T6 ALUMINUM
12	9960	DOOR SWEEP	EFCO; 6063-T6 ALUMINUM
13	9914	C.O.C. SLIDE ARM COVER	EFCO; 6063-T6 ALUMINUM
14	9403	ADJUSTABLE ASTRAGAL	EFCO; 6063-T6 ALUMINUM
16	9257	HORIZONTAL/VERTICAL SNAP-IN DOOR STOP	EFCO; 6063-T6 ALUMINUM
17	9154	HORIZONTAL/VERTICAL APPLIED DOOR STOP	EFCO; 6063-T6 ALUMINUM
22	9828	HORIZ./VERT. FIXED GLASS STOP (9/16" GLZ.)	EFCO; 6063-T6 ALUMINUM
23	9827	HORIZ./VERT. REMOVABLE GLASS STOP (9/16" GLZ.)	EFCO; 6063-T6 ALUMINUM
24	M109	#12-24 X 3/8" PL-FH-MS 18-8	ALLOY FASTENER; 6 PER SILL STRIKE INTO THRESHOLD
25	M100/M108	#12-24 X 3/4" PL-FH-MS 18-8	ALLOY FASTENER; 2 PER STILE SHIM & 4 PER BUTT HINGE LEAF
26	S108	8-15 X 1 3/4" PL-PH-SMS	PRO FAS (3 PER CORNER)
27	S105/S106	8-15 X 1 1/2" PL-FH-SMS 18-8 A	PRO FAS; 6" FROM CORNER & 1 AT MIDPOINT FOR SINGLE DOORS; 6" FROM CORNERS & 15" MAX. O.C. FOR PAIR DOORS
28	SPZ4	8-15 X 1" PL-PH-SMS 18-8 AB	PRO FAS; 6" FROM CORNER & 1 AT MIDPOINT FOR SINGLE DOORS; 6" FROM CORNERS & 15" MAX. O.C. FOR PAIR DOORS
29	S118/S119	#8-32 X 5/8" PL-PH-MS 18-8 TYPE F	ALLOY FASTENER; 2" FROM CORNERS & MAX. 13" O.C.
30	S110	12-24 X 1/2" PL-FH-SMS 18-8 F	PRO FAS; 2 EACH END OF HEAD JAMB
31	STT6	#8-18 X 9/16" PL-PH-ZK TEK/2	ALLOY FASTENER; 3" FROM CORNERS & MAX. 9" O.C.
32	-	#12-24 X 3/4" FH TEK/3 CONT. GEAR HINGE TO STILE & JAMB	SELECT; 6 @ TOP & BOT OF HINGE (3 ROWS OF 2) AND ONE STAGGERED MAX. 5" O.C. IN BETWEEN
33	-	1/4-20 X 5/8" FH	5 PER HINGE
34	-	1/4-20 X 1/2" FH	5 PER HINGE
35	IHP5	1/4-20 X 1" HX-MS 18-8	2 PER PANEL CORNER WELD BLOCK
36	M100/M108	#12-24 X 3/4" PL-FH-MS 18-8	ALLOY FASTENER; 6 PER HEAD STRIKE
37	M130	#10-32 X 5/8" PL-FH-MS 18-8	ALLOY FASTENER; 2 PER LOCK CASING

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1006-09
 Expiration Date: 06/10/2013
 By: *Chang L. Chen*
 Manual Dept. Product Control

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
SEALS & SEALANTS			
38	WM77	1/4"X3/8" POLYETHYLENE GLAZING TAPE	NORTON T-BOND II V2200
39	WM80	3/16"X1/2" POLYETHYLENE GLAZING TAPE	NORTON T-BOND II V2200
40	W138	DOOR STOP BULB WEATHERING	E.P.G., INC; E.P.D.M. CONTINUOUS AROUND FRAME & SILL
41	W113	DOOR SWEEP WEATHERING BLADE	E.P.G., INC. E.P.D.M. CONTINUOUS AT SILL
42	W153/W154	DOOR ASTRAGAL PILE WEATHERING SKIRTING SEAL	SCHLEGEL 510 SERIES
HARDWARE			
45	H110	MS1853-310 1 1/8" B.S. DEADBOLT LOCK	ADAMS RITE
46	H107	22-0282 X 22-0757 ARM PACKAGE	ADAMS RITE
47	K383	48" TOP ROD EXT. FOR MS1850 LOCK @ 8' DOORS	EFCO
49	K384	36" TOP ROD EXT. FOR MS1850 LOCK @ 7' DOORS	EFCO
51	H148/H149	FB-1202-S FLUSHBOLT	INTERNATIONAL
52	H150	FR-1200-RM STEEL FLUSH BOLT	INTERNATIONAL
53	K385	12" BOTTOM ROD EXTENSION FOR MS1850 LOCK	EFCO
54	H135/H137	1 5/32" DIA. K.A. MORTISE CYL.	INTERNATIONAL
55	H900/H901	RCBB1191 4 1/2" X 4" BUTT HINGES	HAGER
56	HQ44/HQ47	SL-12HD CONTINUOUS GEAR HINGE	SELECT
57	H892/H893	EF62 AND EF63 TOP PIVOT	INTERNATIONAL
58	H895/H897	DO64 AND DO65 RH BOTTOM PIVOT	INTERNATIONAL
59	H657/H659	IP-2202-AL RH INTERMEDIATE PIVOT	INTERNATIONAL
60	H410/H411	180 MORTISE OFFSET TOP PIVOT	RIXSON
61	H241/H243	LH M19 INTERMEDIATE PIVOT	RIXSON
62	H413/H415	LH 195 BOTTOM PIVOT	RIXSON
64	F420	ADJUSTABLE ASTRAGAL SPRING	EFCO
65	F528	BUTT HINGE REINFORCING	EFCO
66	FS05	THRESHOLD BOLT STRIKE @ PAIR DOORS	EFCO
67	FS01	FABRICATED BOLT GUIDE	EFCO
68	H553/H554	1490 CONCEALED VERT. ROD EXIT DEVICE	DOR-O-MATIC
69	K105	2" WELD BLOCK BACKER (6063-T6 ALUMINUM)	EFCO (1 PER TOP & 2 PER BOTTOM RAIL CORNER)
70	K103	2" WELD BLOCK (6063-T6 ALUMINUM)	EFCO (1 PER TOP & 2 PER BOTTOM RAIL CORNER)
71	FS04	HEADER BOLT STRIKE	EFCO

OPTIONAL NON-STRUCTURAL HARDWARE:

CLOSERS
 DORMA 650 A.D.A. ACCEPTABLE SURFACE CLOSERS
 SURFACE APPLIED CLOSERS FROM OTHER MANUFACTURER
 NOTE: OTHER CLOSERS MUST SUPPORT A DOOR WEIGHT OF 175
 LBS. (BASED ON 42" X 96" NOMINAL DOOR SIZE.)

OPERATING
 EFCO STANDARD EXTRUDED PUSH/PULLS
 EFCO EXTRUDED OFFSET PANIC PULL
 CHMI ULTRALINE WIRE PUSH/PULLS

DRAWN BY:	T.J.W.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	05/20/08
DATE			
BY			
REVISION DESCRIPTION			
NO.			

DRAWING TITLE: **D300/318 OUTSWING SMALL MISSILE IMPACT DOOR**

MANUFACTURER: **EFCO CORPORATION**
 1000 COUNTY ROAD; P.O. BOX 609
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CONSULTANTS: **W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**
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