



**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; 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 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 "D300/318" Outswing Aluminum Entrance Door S.M.**

**APPROVAL DOCUMENT:** Drawing No. 1185, titled "D300/318 Outswing Small Missile Impact Door", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/18/02, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime Eisen, P.E.**



**NOA No 02-1219.08  
Expiration Date: April 10, 2008  
Approval Date: April 10, 2003**

**EFCO Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A. DRAWINGS**

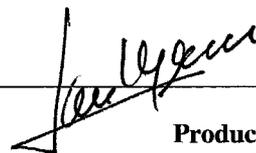
1. Manufacturer's die drawings and sections.
2. Drawing No. **1186**, titled "D500/518 Outswing Large Missile Impact Door", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/5/02, signed and sealed by Warren Schaefer, P.E.

**B. TESTS**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Large Missile Impact Test per FBC, TAS 201-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along 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, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
7) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of an outswing aluminum door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0046-0315-02 dated 3/20/02, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294  
along with marked-up drawings and installation diagram of an outswing aluminum door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0046-1018-02 dated 10/8/02, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/19/02, signed and sealed by Warren Schaefer, P.E.



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Jaime Eisen, P.E.  
Product Control Examiner  
NOA No 02-1219.08  
Expiration Date: April 10, 2008  
Approval Date: April 10, 2003

**EFCO Corporation**

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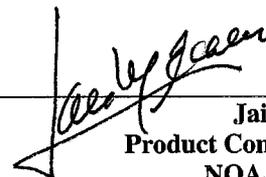
(For File ONLY. Not part of NOA)

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **02-1205.03** issued to Security impact Glass for "SAF-GLAS" dated 1/2/03, expiring on 12/16/07.
2. Notice of Acceptance No. **00-0822.03** issued to Solutia, Inc., for "Saflex HP" dated 4/14/00, expiring on 4/14/03.
3. Notice of Acceptance No. **01-1204.01** issued to E.I. DuPont DeNemours, for "Sentry Glass Plus" dated 1/17/02, expiring on 1/14/07.
4. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc., for "Saflex/Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.

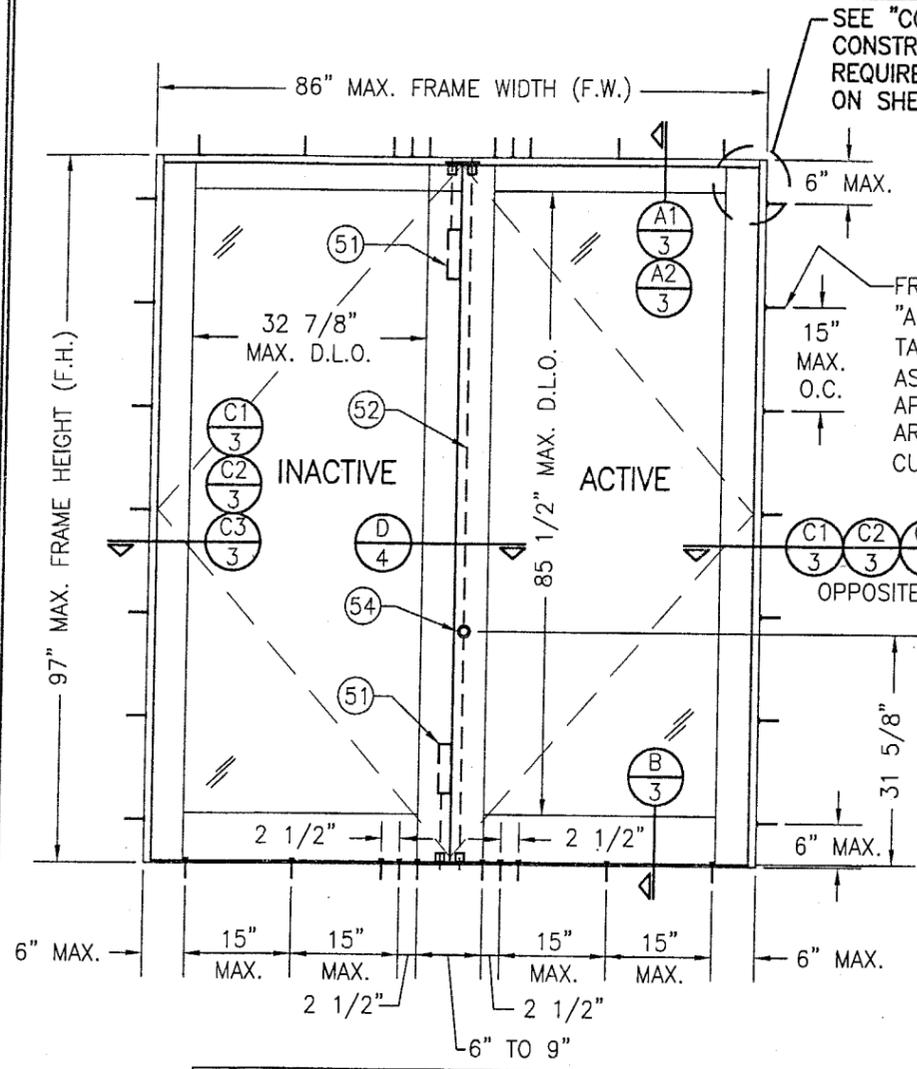
**E. STATEMENTS**

1. Statement letter of no financial interest, dated 11/19/02, signed and sealed by Warren Schaefer, P.E.
3. Laboratory compliance letter for Test Report no. HTL 0046-1217-01, HTL 0046-0315-02, HTL 0046-1018-02, issued by Hurricane Testing Laboratory, Inc., dated 4/29/02, signed and sealed by Barry D. Portnoy, P.E.

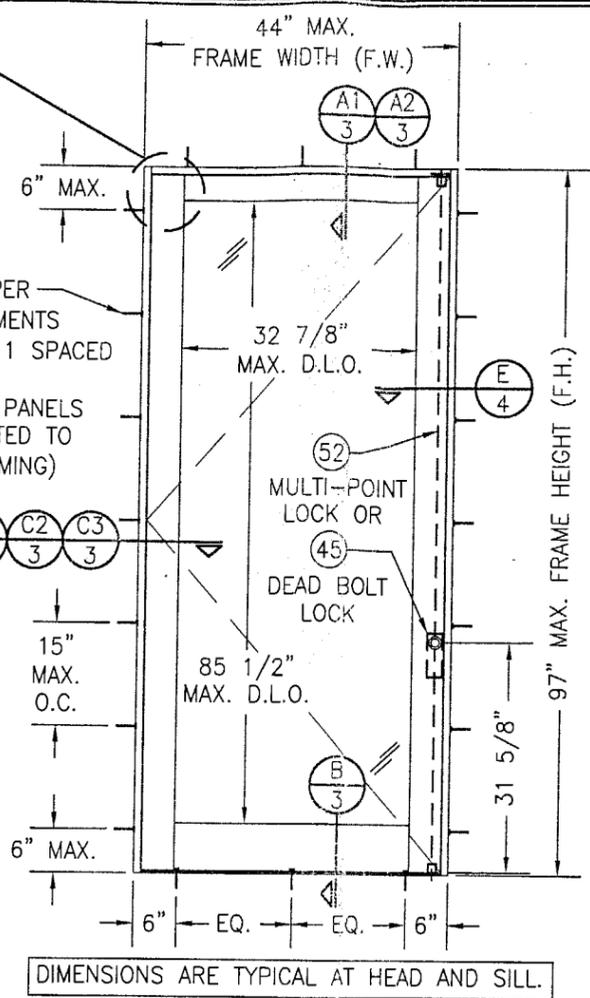


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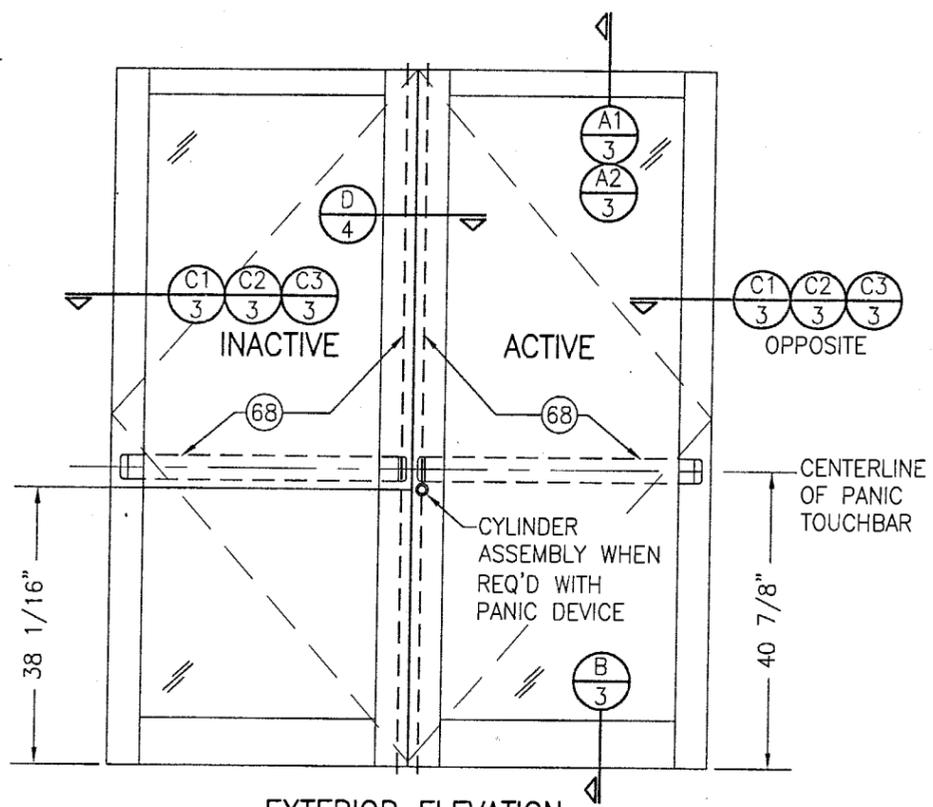
**Jaime Eisen, P.E.**  
**Product Control Examiner**  
**NOA No 02-1219.08**  
**Expiration Date: April 10, 2008**  
**Approval Date: April 10, 2003**



**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.

Approved as complying with the  
Florida Building Code  
Date 04/10/03  
NOA# 02-1219-08  
Miami Dade Product Control  
Division  
By [Signature]

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			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 12 F.H. SMS SCREW	1 1/2"	3/4"
MIN. 16 GA METAL STUD	NO. 12 F.H. TEK SCREW	FULL	1/2"
MIN. 12 GA. STR. STEEL	1/4"-14 F.H. TEK SCREW	FULL	1/2"
CONCRETE/BLOCK	(1) 1/4" CONCRETE ANCHOR	1 1/4"	2"
MIN 0.118" THICK 6063-T6 ALUMINUM CURTAIN WALL	SEE CROSS SECTIONS	FULL	N/A

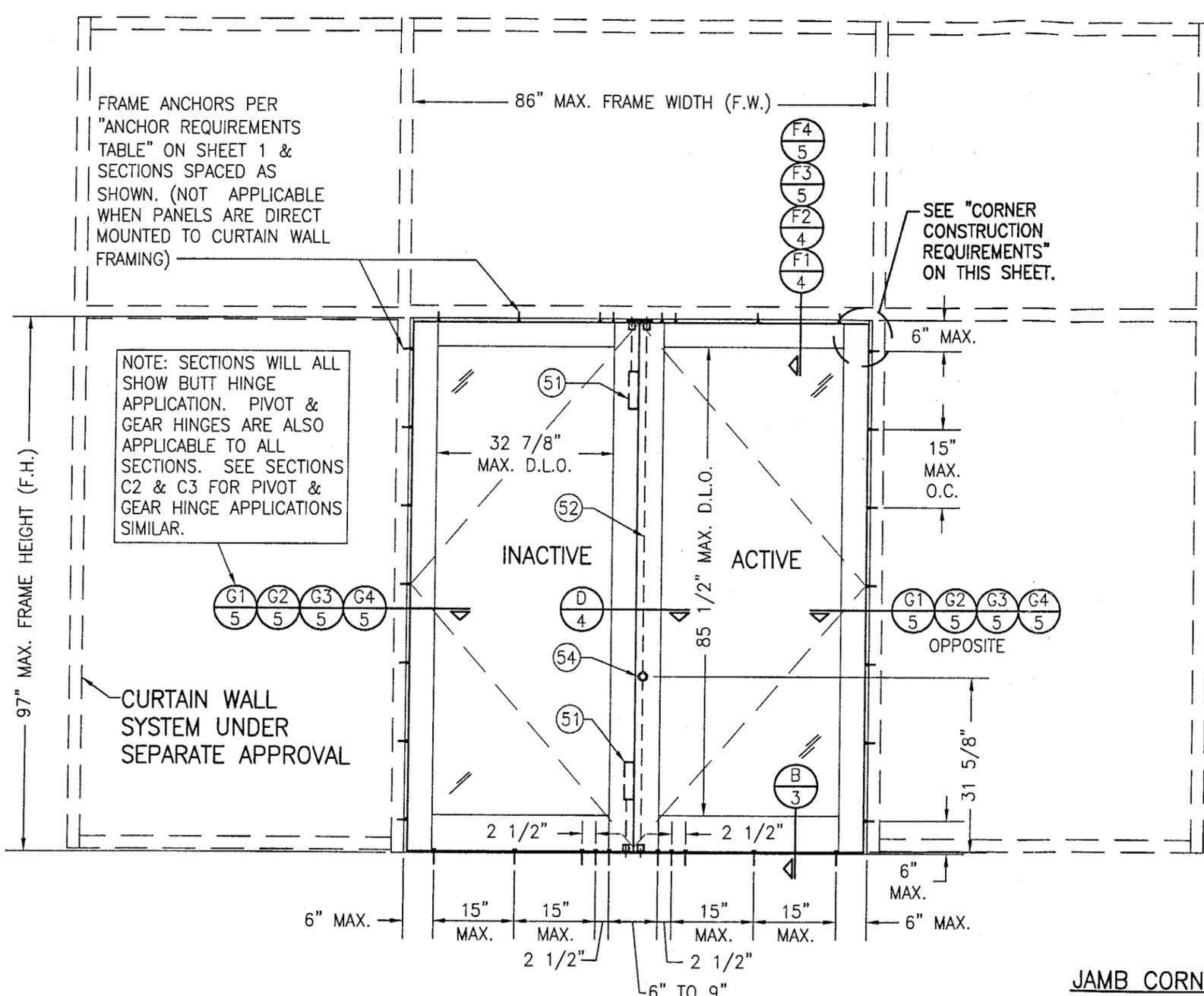
(1) CONCRETE ANCHORS MAY BE:  
CONCRETE SCREWS: ITW RAMSET/RED HEAD OR ELCO TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (STAINLESS STEEL ONLY).  
WEDGE ANCHORS: HILTI KWIK BOLT II OR ITW RAMSET/RED HEAD DYNABOLT (STEEL OR S.S.)

\* ANCHOR NOTE: FRAME MAY BE DIRECT MOUNTED TO THE SUBSTRATE OR MOUNTED WITH A CONTINUOUS WOOD SPACER BETWEEN THE FRAME & SUBSTRATE. SEE SECTIONS & SPACER MOUNT DETAIL FOR APPLICABLE CONDITIONS.

**GENERAL NOTES**

- THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOAD" TABLE.
- SUPPORTING SUBSTRATE MUST BE PROPERLY DESIGNED & INSTALLED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS.
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR SMALL MISSILE IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS 201, 202 & 203.
- THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
- ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
  - ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
  - ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
  - ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 33 ksi.
  - ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GA. Fy = 36 ksi.
  - ALL BLOCK SUBSTRATE SHALL BE MIN. C-90 CMU.

DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 11/18/02
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE D300/31B OUTSWING SMALL MISSILE IMPACT DOOR	
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 MAR 10 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1185	REV.
SHEET NO. 1 OF 8	



NOTE: SECTIONS WILL ALL SHOW BUTT HINGE APPLICATION. PIVOT & GEAR HINGES ARE ALSO APPLICABLE TO ALL SECTIONS. SEE SECTIONS C2 & C3 FOR PIVOT & GEAR HINGE APPLICATIONS SIMILAR.

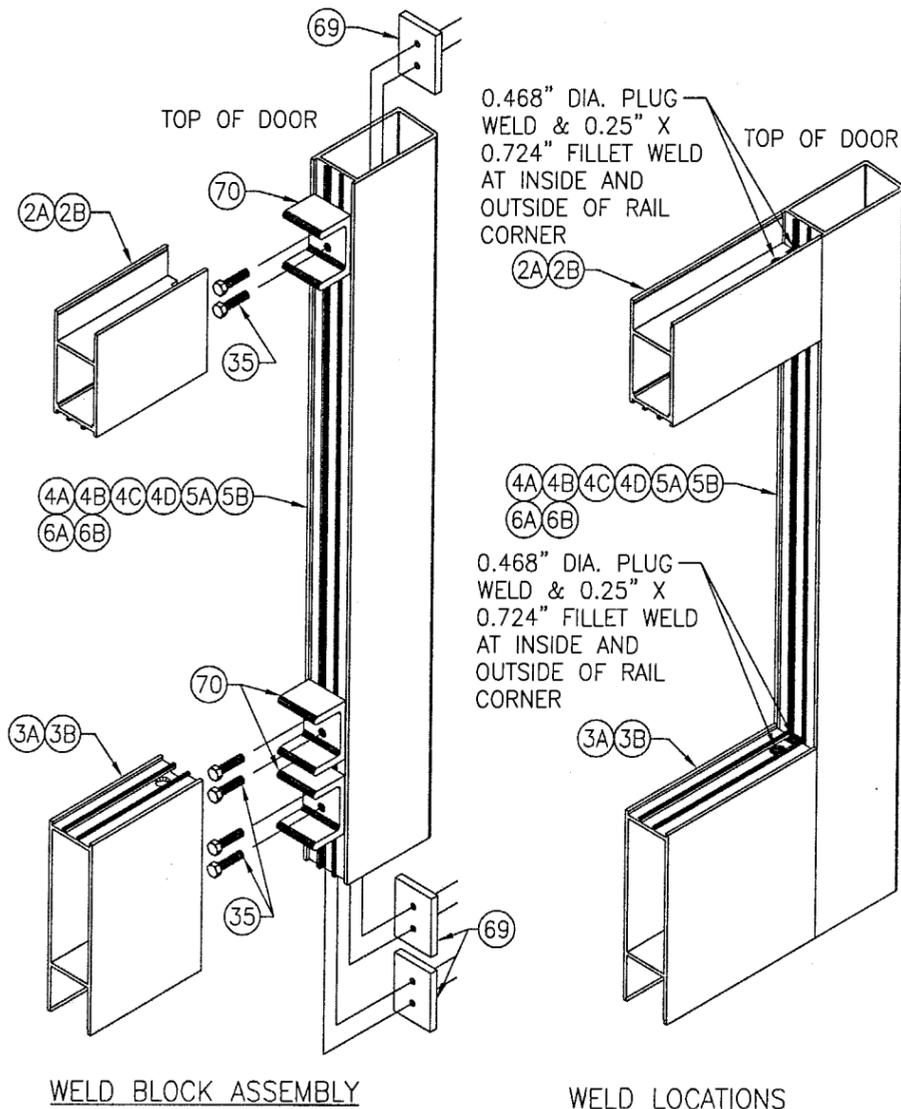
CURTAIN WALL SYSTEM UNDER SEPARATE APPROVAL

SEE "CORNER CONSTRUCTION REQUIREMENTS" ON THIS SHEET.

DIMENSIONS ARE TYPICAL AT HEAD AND SILL.

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

APPLICABLE CURTAIN WALLS MAY BE EFCO'S 5600 OR 5800 CURTAIN WALLS OR ANY OTHER CURTAIN WALL THAT CONSISTS OF MIN. 6063-T6 ALUMINUM FRAMING WITH MIN. 0.118 THICK EXTRUDED WALLS. THE CURTAIN WALL SYSTEM MUST HOLD DADE COUNTY N.O.A. OR FLORIDA STATE APPROVAL AS AN IMPACT SYSTEM.



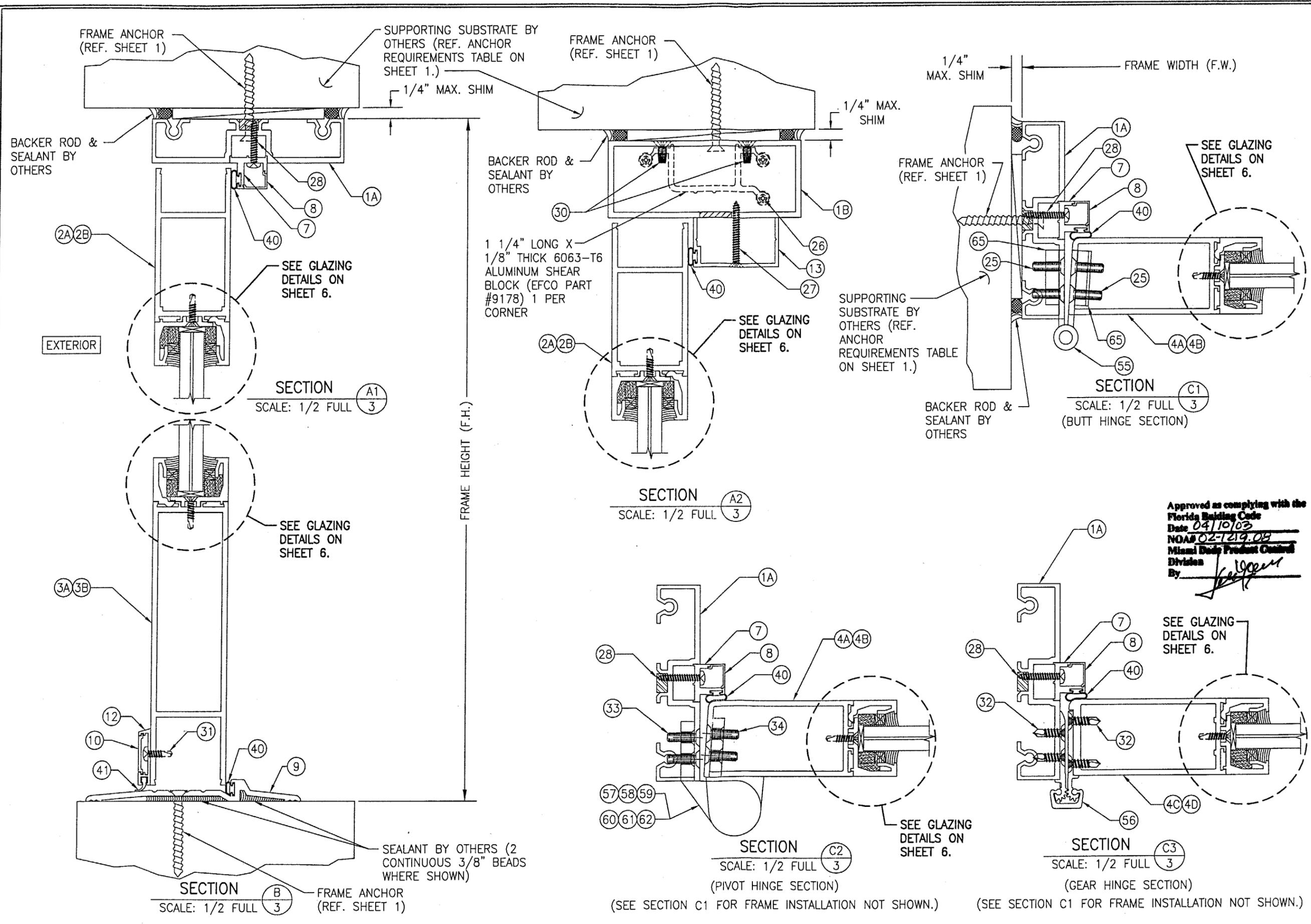
**PANEL CORNER DETAILS**

Approved as complying with the Florida Building Code  
 Date 04/10/03  
 NOA# 02-1219.08  
 Miami Dade Product Control Division  
 By *[Signature]*

**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.

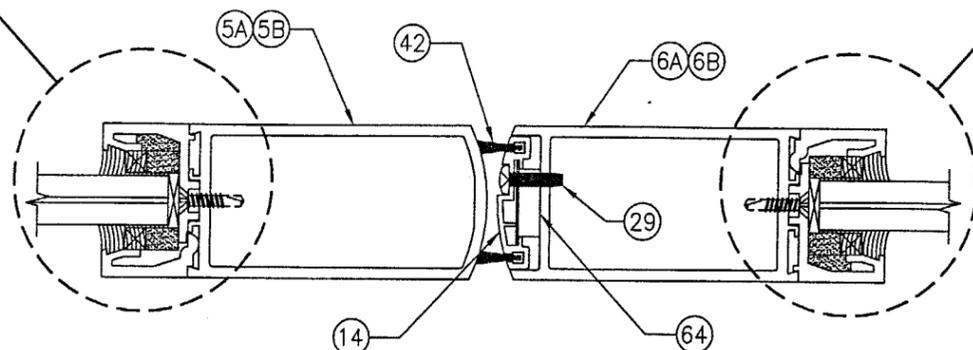
DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 11/18/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: D300/318 OUTSWING SMALL MISSILE IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: EFCO CORPORATION	
600 SANDTREE DRIVE, SUITE 2038 PALM BEACH GARDENS, FL 33403		1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION: MAR 10 2003		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1185		REV.	
SHEET NO. 2 OF 8			



Approved as complying with the  
 Florida Building Code  
 Date 04/10/03  
 NOA# 02-7219-09  
 Miami Dade Product Control  
 Division  
 By: *[Signature]*

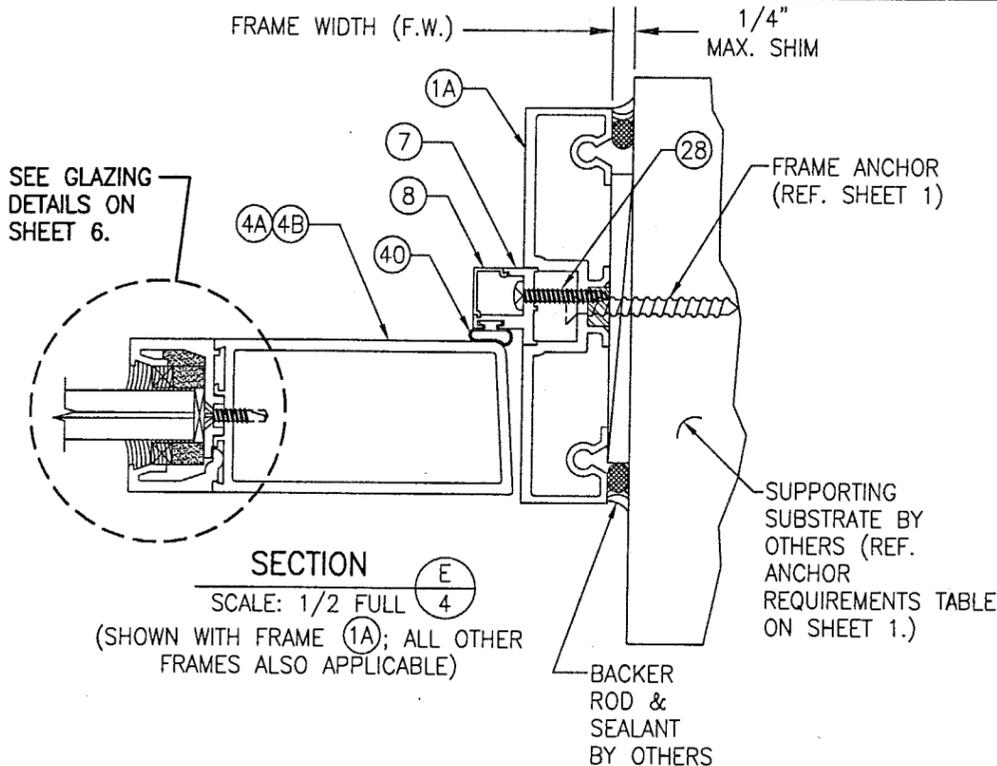
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PLOT: 1=2		DATE: 11/18/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: D300/318 OUTSWING SMALL MISSILE IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER: EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION MAR 10 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1185		REV.	
SHEET NO. 3		OF 8	

SEE GLAZING  
DETAILS ON  
SHEET 6.

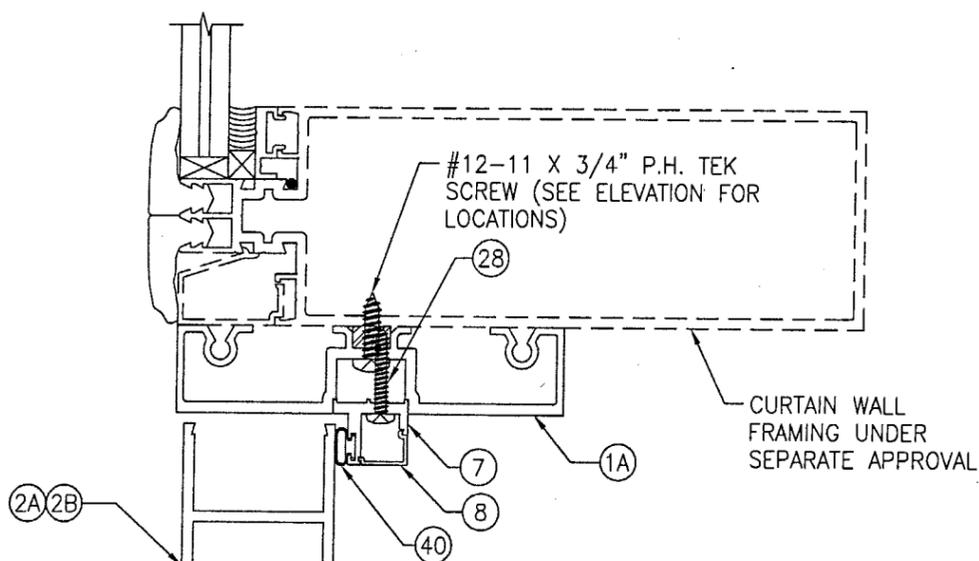


SECTION **D**  
SCALE: 1/2 FULL **4**

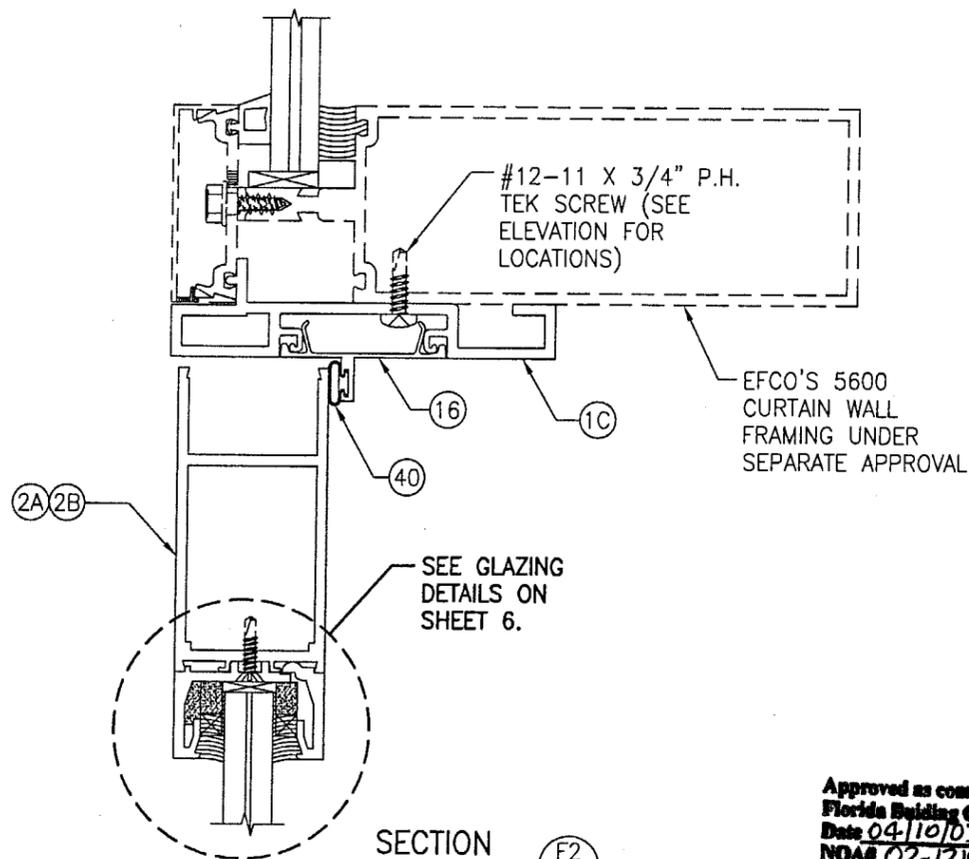
SEE GLAZING  
DETAILS ON  
SHEET 6.



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



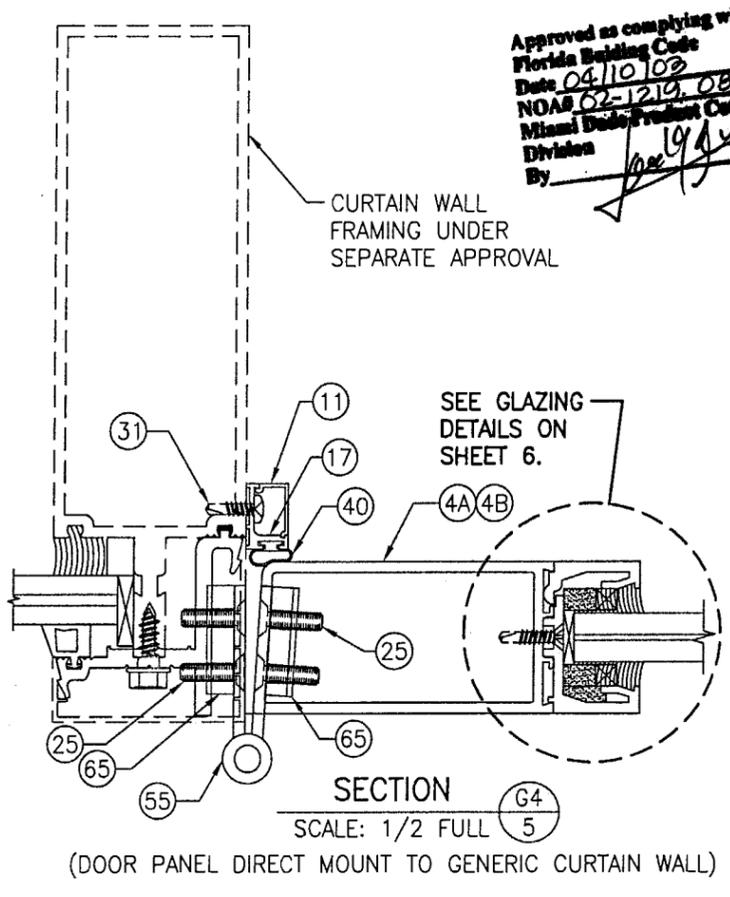
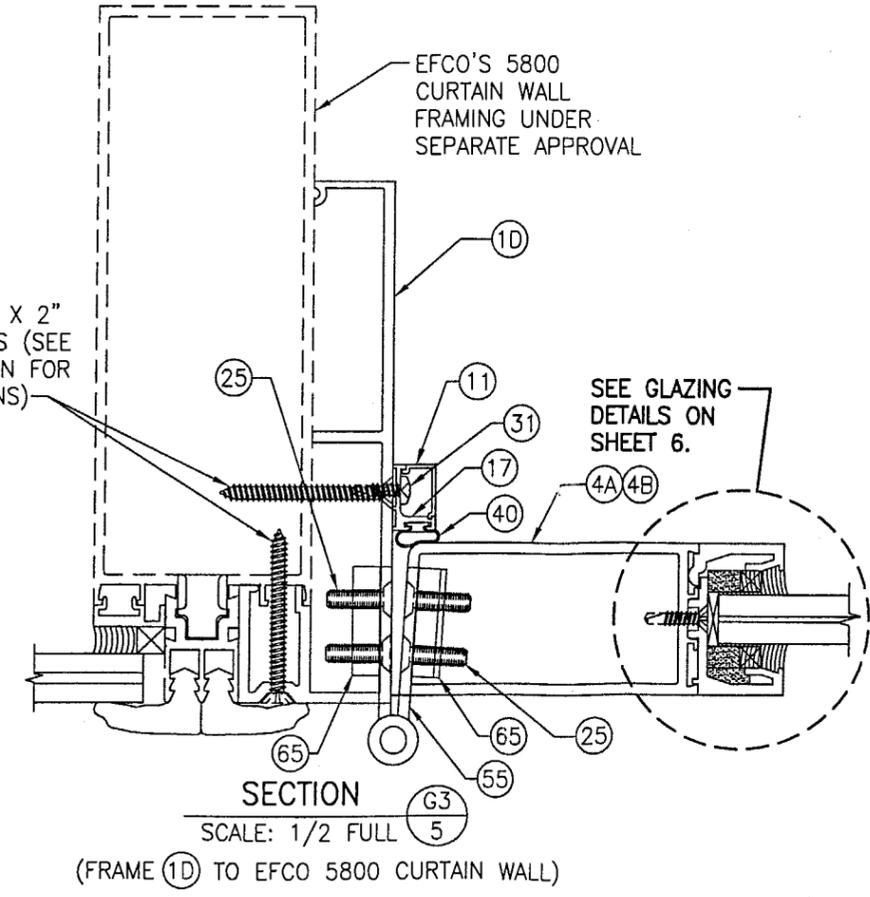
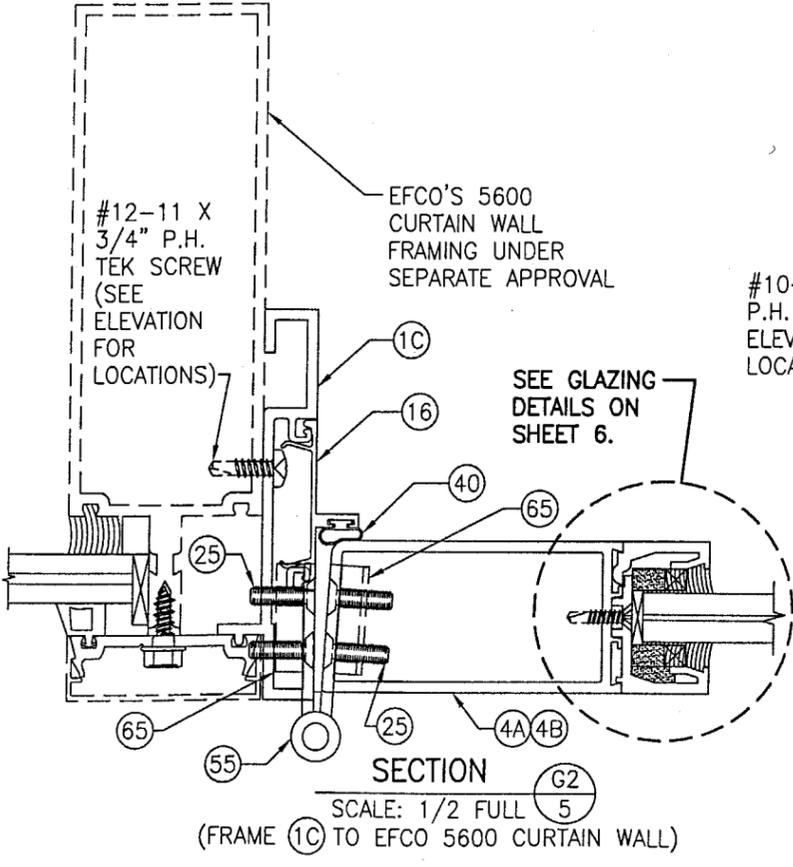
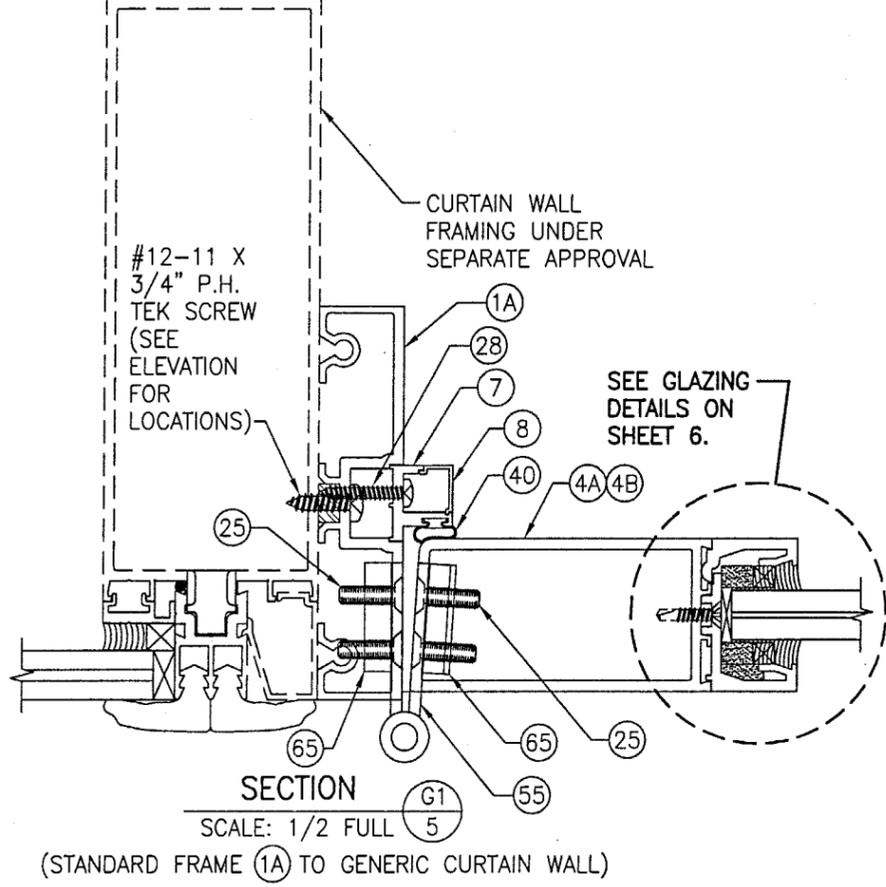
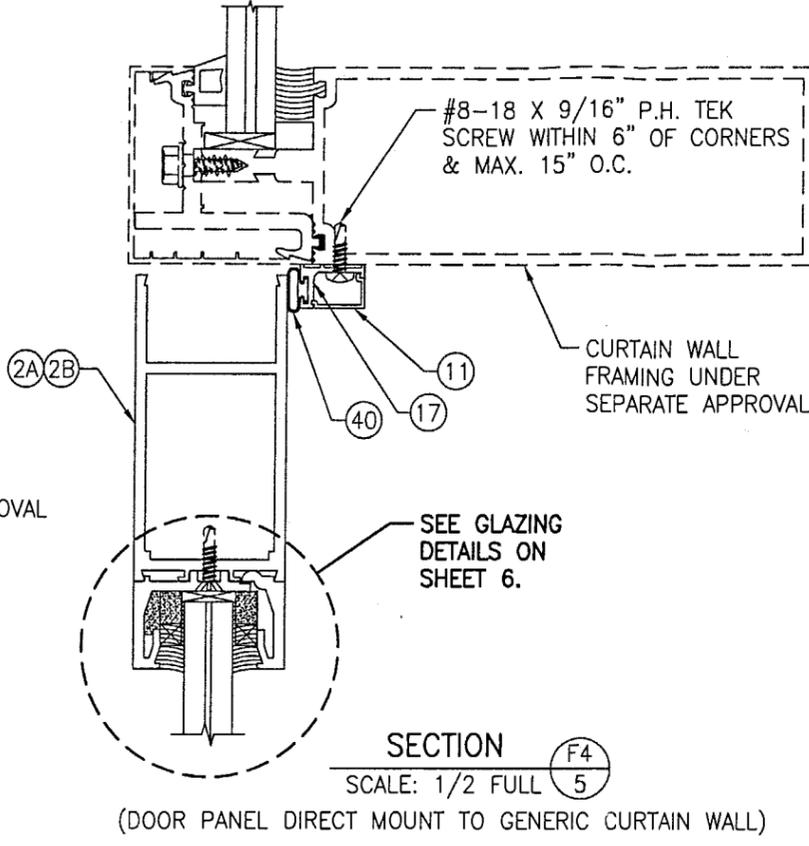
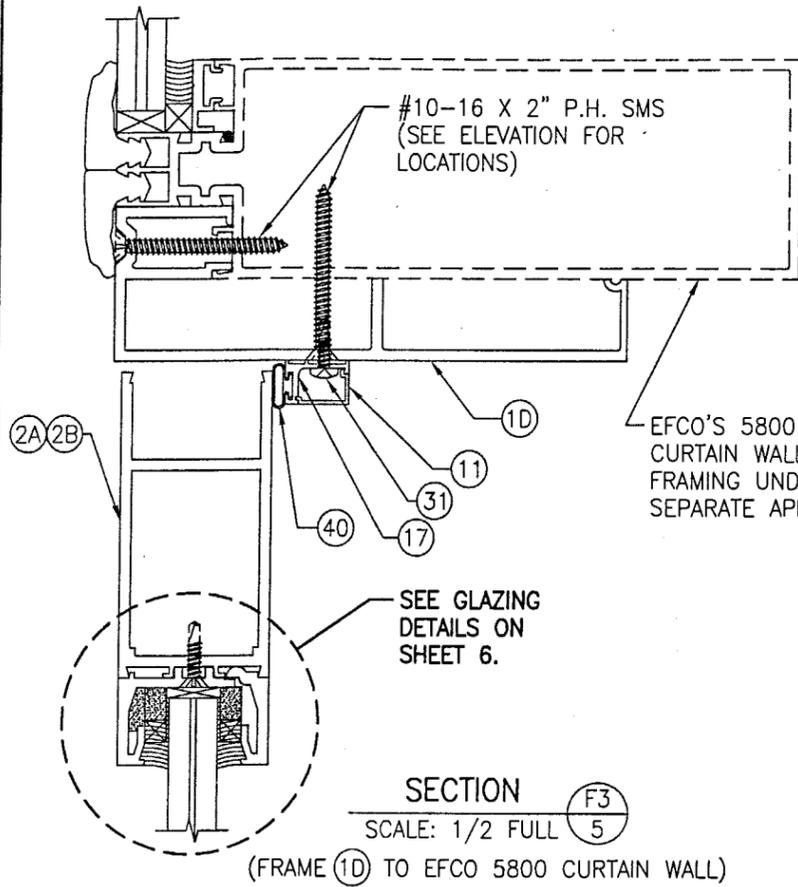
SECTION **F1**  
SCALE: 1/2 FULL **4**  
(STANDARD FRAME **1A**) TO GENERIC CURTAIN WALL)



SECTION **F2**  
SCALE: 1/2 FULL **4**  
(FRAME **1C**) TO EFCO 5600 CURTAIN WALL)

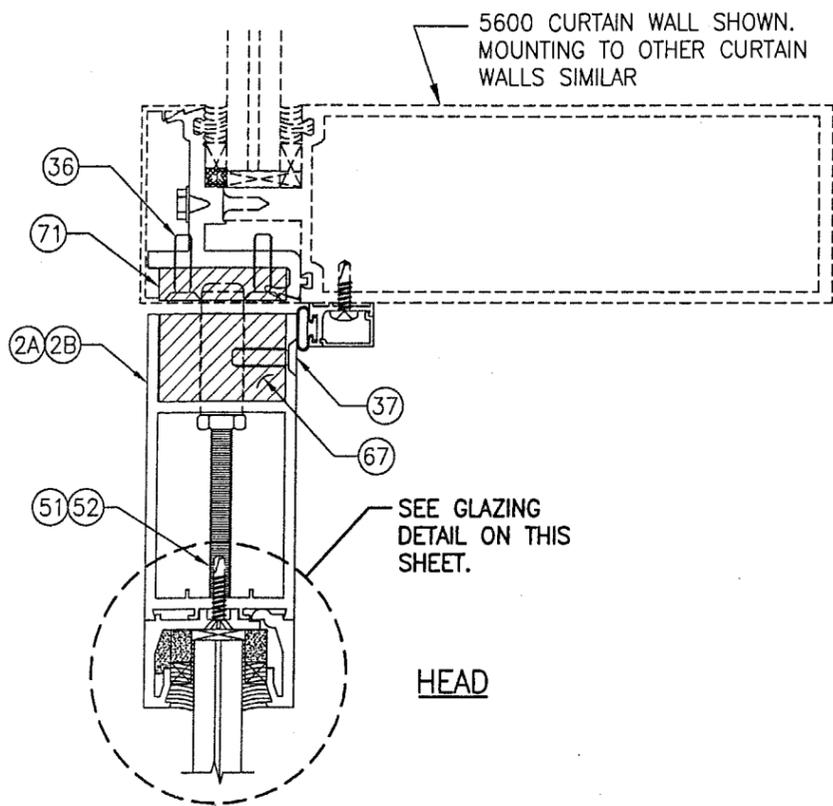
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NOAS 02-1219.08  
Miami Dade Product Control  
Division  
By *[Signature]*

DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/18/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>D300/318 OUTSWING SMALL MISSILE IMPACT DOOR</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>MAR 10 2003</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. <b>1185</b>		REV.	
SHEET NO. <b>4 OF 8</b>			



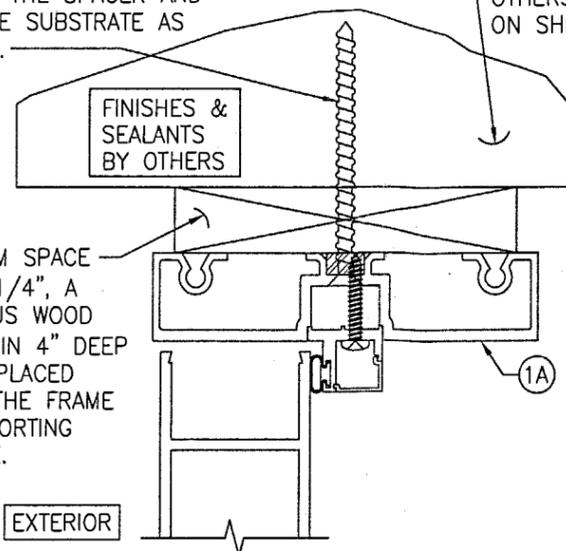
Approved as complying with the  
Florida Building Code  
Date 04/10/03  
NOAB 02-1219, 08  
Miami Dade Product Control  
Division  
By [Signature]

DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/18/02
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. 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	
MAR 10 2003	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1185	REV.
SHEET NO. 5 OF 8	



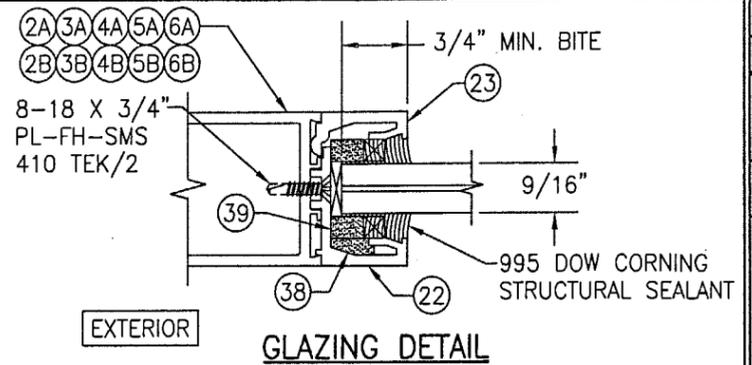
FRAME ANCHOR PER "ANCHOR REQUIREMENTS TABLE" ON SHEET 1. ANCHOR MUST RUN THROUGH THE SPACER AND PENETRATE SUBSTRATE AS REQUIRED.

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

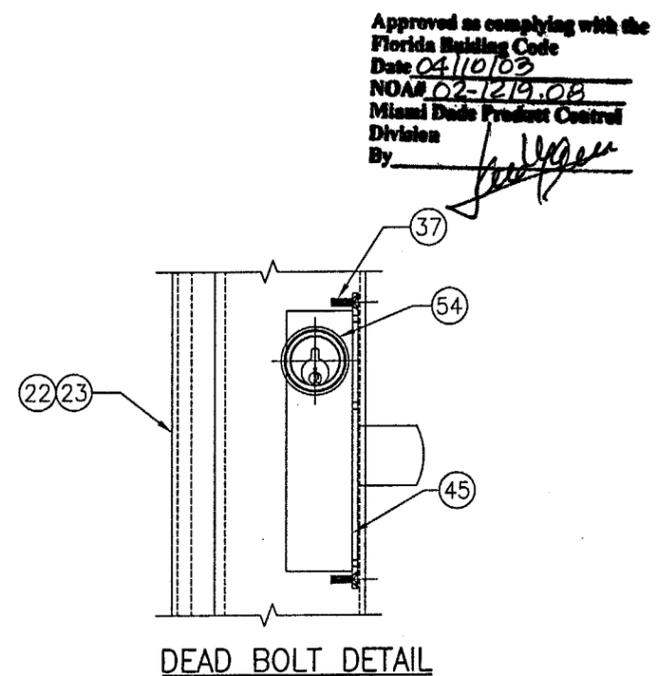
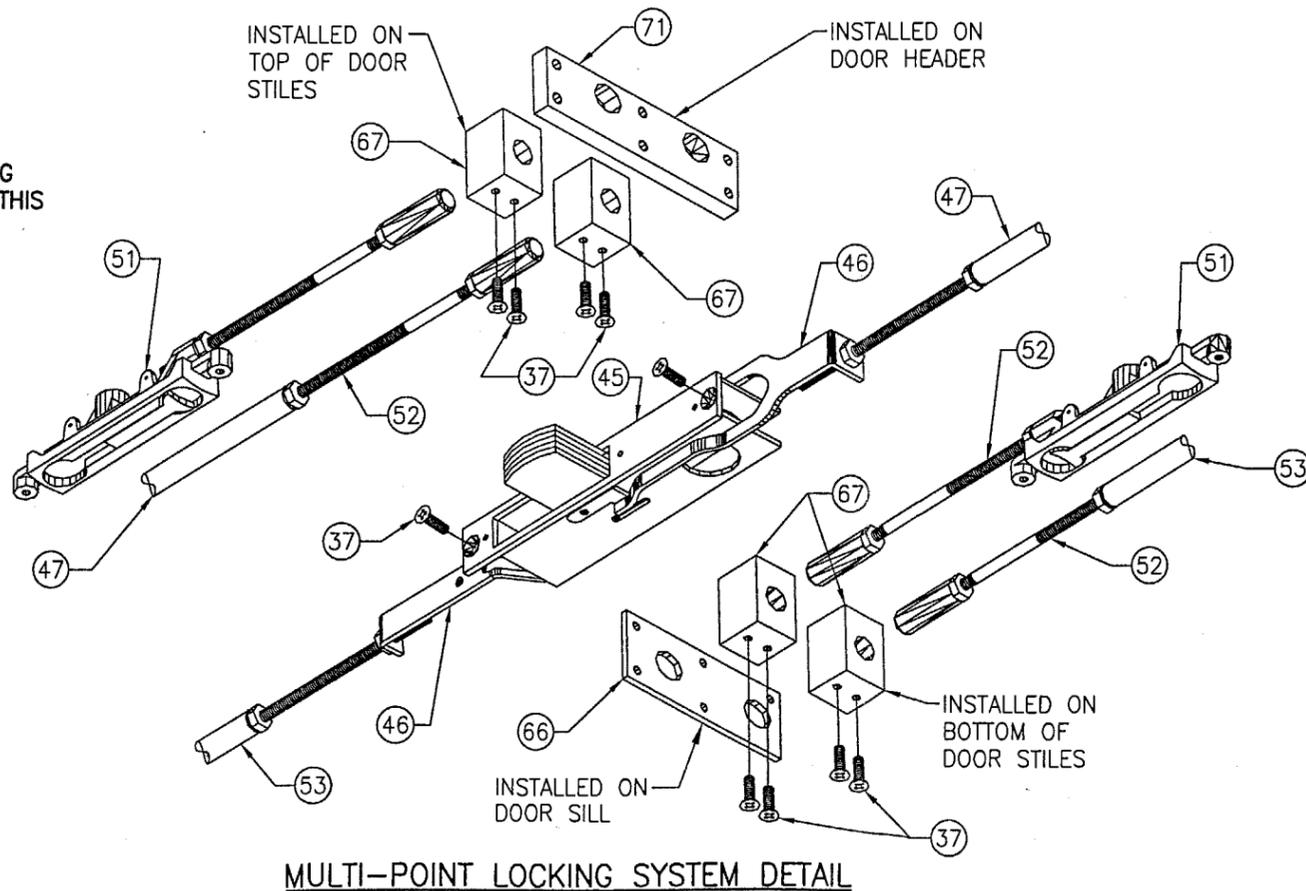
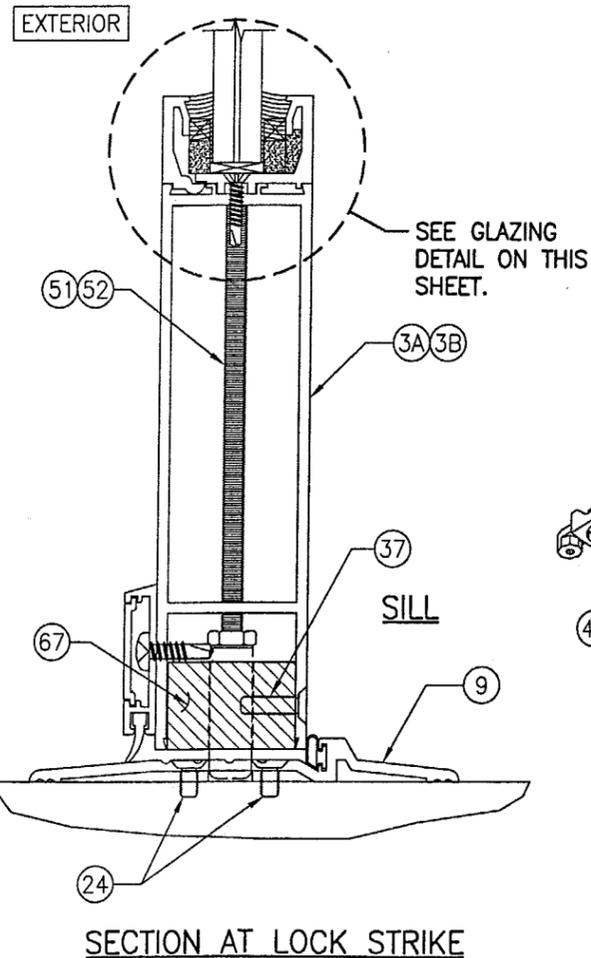


**OPTIONAL SPACER MOUNT DETAIL**

FOR ALL DETAILS NOT SHOWN, SEE SECTIONS ON SHEETS 3 THROUGH 5.



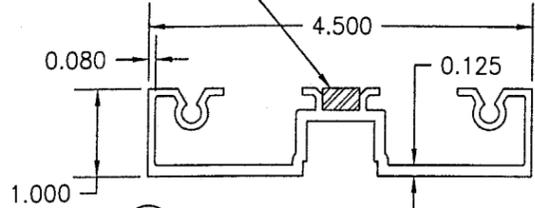
- OPTION 1: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" CLEAR H.S./0.060" SOLUTIA SAFLEX PVB/1/4" CLEAR H.S.)
- OPTION 2: 9/16" THICK DUPONT BUTACITE LAMINATED GLASS (1/4" CLEAR H.S./0.060" DUPONT BUTACITE PVB/1/4" CLEAR H.S.)



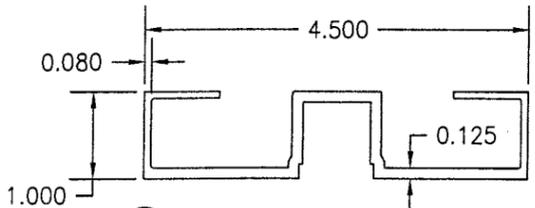
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 Date 04/10/03  
 NOA# 02-1219.08  
 Miami Dade Product Control Division  
 By *[Signature]*

DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/18/02
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. 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	MAR 10 2003
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1185	
SHEET NO.	6 OF 8

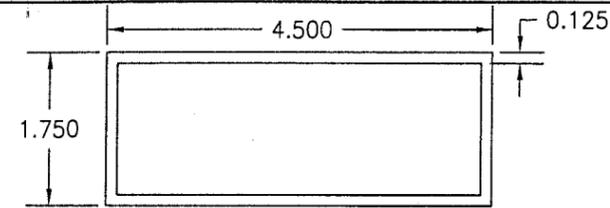
0.25" X 0.43 CONTINUOUS ALUMINUM BAR FULLY ADHERED TO JAMB



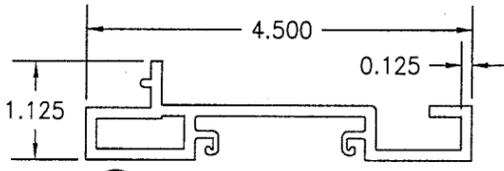
1A S5600 IMPACT HEAD JAMB (OPTION 1)



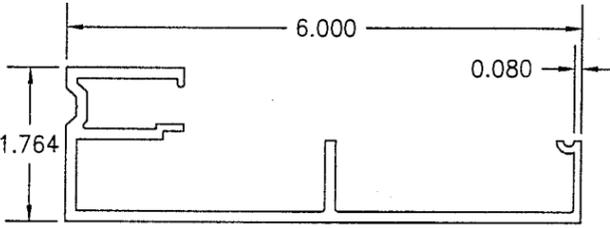
1A S5600 IMPACT HEAD JAMB (OPTION 2)



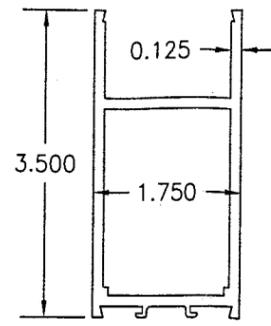
1B OPTIONAL HEAD JAMB



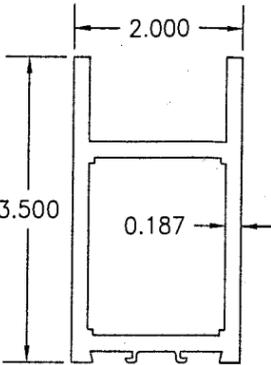
1C S5600 HEAD JAMB



1D S5800 HEAD JAMB

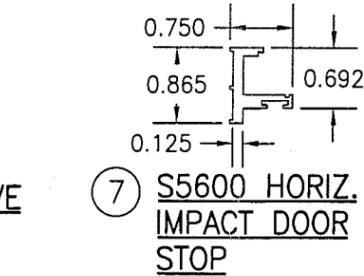


2A D300 TOP RAIL

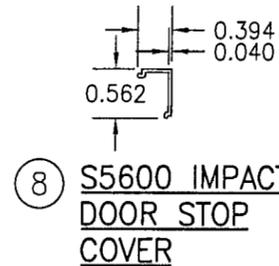


3A D300 BOTTOM RAIL

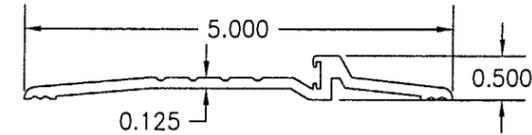
2B D318 TOP RAIL



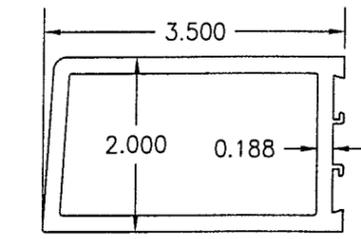
7 S5600 HORIZ. IMPACT DOOR STOP



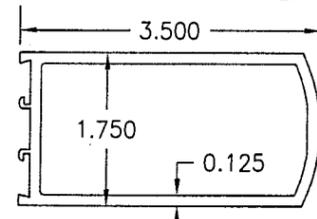
8 S5600 IMPACT DOOR STOP COVER



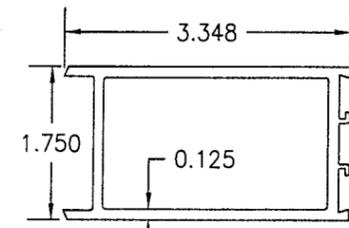
9 THRESHOLD



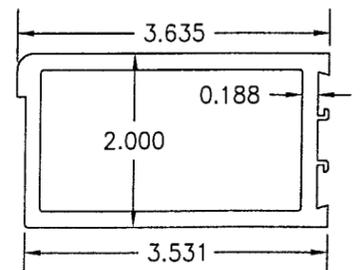
4B D318 FIXED STILE



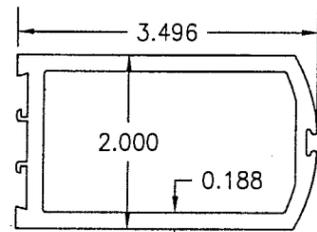
5A D300 INACTIVE LOCKING STILE



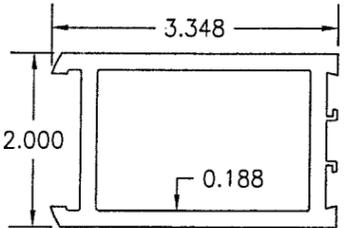
6A D300 ASTRAGAL/ACTIVE LOCKING STILE



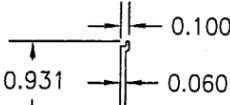
4D D318 CONTINUOUS HINGE STILE



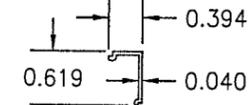
5B D318 INACTIVE LOCKING STILE



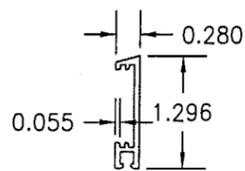
6B D318 ACTIVE LOCK STILE



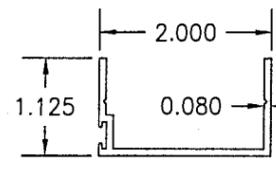
10 DOOR SWEEP COVER



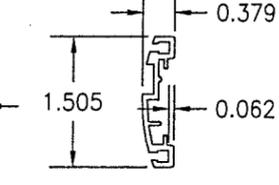
11 DOOR STOP COVER



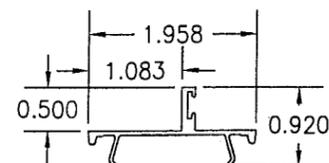
12 DOOR SWEEP



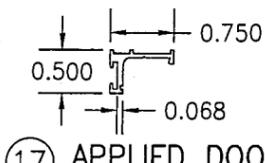
13 C.O.C. SLIDE ARM COVER



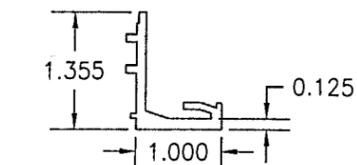
14 ADJUSTABLE ASTRAGAL



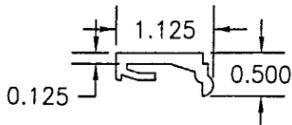
16 SNAP-IN DOOR STOP



17 APPLIED DOOR STOP



22 FIXED IMPACT GLASS STOP- 1" GLAZING



23 REMOVABLE IMPACT GLASS STOP

DRAWN BY: T.J.W. CHECKED BY: W.W.S.  
 PLOT: 1-2 DATE: 11/18/02

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE: 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. 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: MAR 10 2003  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

Approved as complying with the Florida Building Code  
 Date: 04/10/03  
 NOAH 02-1219 09  
 Miami Dade Product Control Division  
 By: [Signature]

DRAWING NO. 1185 REV. 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	9826	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

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: 11/18/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
<b>D300/318 OUTSWING SMALL MISSILE IMPACT DOOR</b> MANUFACTURER <b>EFCO CORPORATION</b> 1000 COUNTY ROAD; P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
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	
DRAWING TITLE <b>D300/318 OUTSWING SMALL MISSILE IMPACT DOOR</b>	
CERTIFICATION <b>MAR 10 2003</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO: 1185	REV.
SHEET NO. 8	OF 8

Approved as complying with the  
 Florida Building Code  
 Date 04/10/03  
 NOAA 02-1219-08  
 Miami Dade Product Control  
 Division  
 By *[Signature]*