



**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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "D300/318" Outswing Aluminum Entrance Door

APPROVAL DOCUMENT: Drawing No. 1184, Rev A, titled "D300/318 Outswing Large Missile Impact Door", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated May 20, 2008, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitation:

1. Refer to lock item No(s) in design load table, sheet 1. for design pressure limitation.
2. When mulled with C.W., lower design pressure of doors or C. W. shall control. Mullion loads & installation anchors to be reviewed by AHJ.

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 & renews NOA # 02-1219.07 consists of this page 1, evidence sheet E-1, as well as approval



**NOA No 08-0131.06
Expiration Date: April 10, 2013
Approval Date: June 19, 2008
Page 1**

4
5/29/08

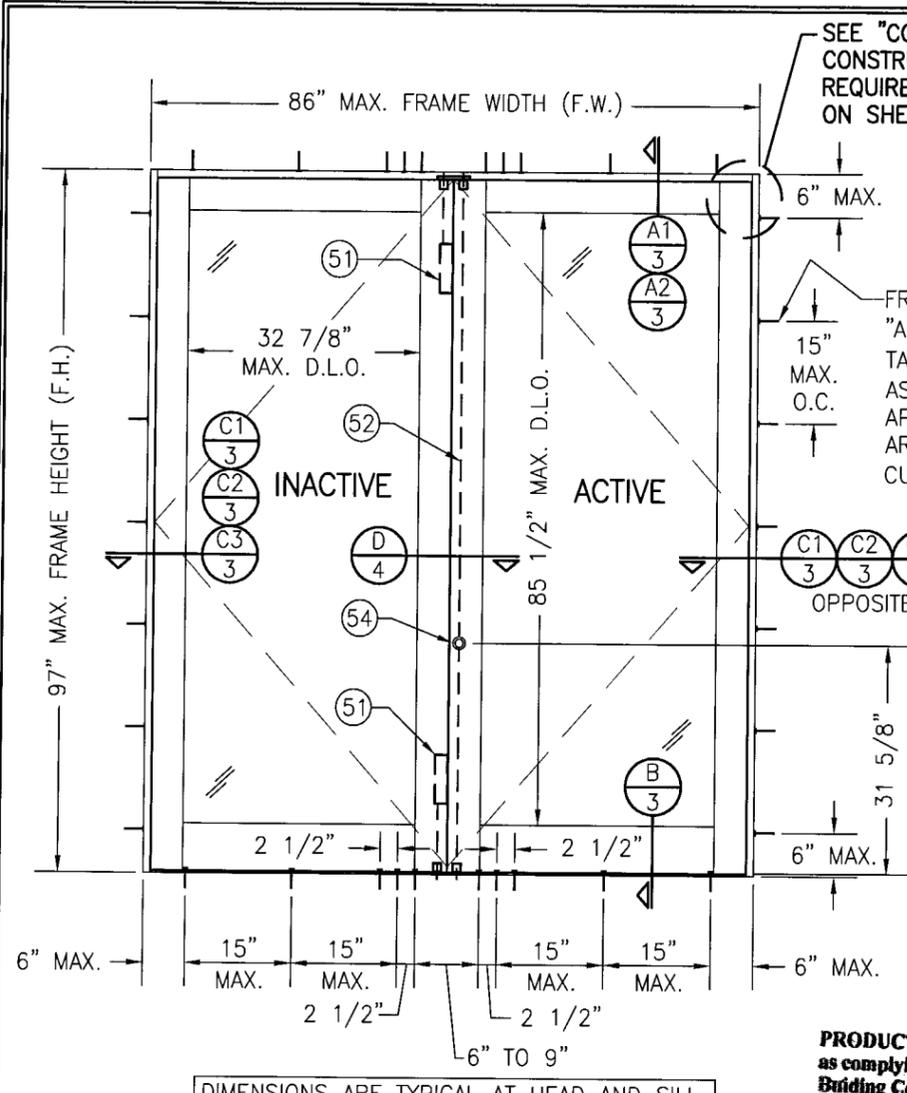
EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file # 02-1219.07)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **1184, Rev A**, titled "D300/318 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** (transferred from file # 02-1219.07) 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) Large 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 202-94
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, 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. 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.
 2. Glazing complies w/ ASTM E-1300-02
- D. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont De Nemours & CO., Inc. for "DuPont SentryGlas ® Plus", expiring on 01/14/2012.
 2. Notice of Acceptance No. **06-0216.06** issued to Solutia, for "Saflex III G clear & color interlayer", expiring on 05/21/2011.
- E. STATEMENTS**
1. Statement letter of conformance & no financial interest, dated 05/08/08, signed and sealed by Warren Schaefer, P.E.
 2. Laboratory compliance statement, part of above referenced test reports.
- F. OTHER**
1. This NOA revises & renews NOA # **02-1219.07**, expired on April 10, 2008

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-0131.06
Expiration Date: April 10, 2013
Approval Date: June 19, 2008



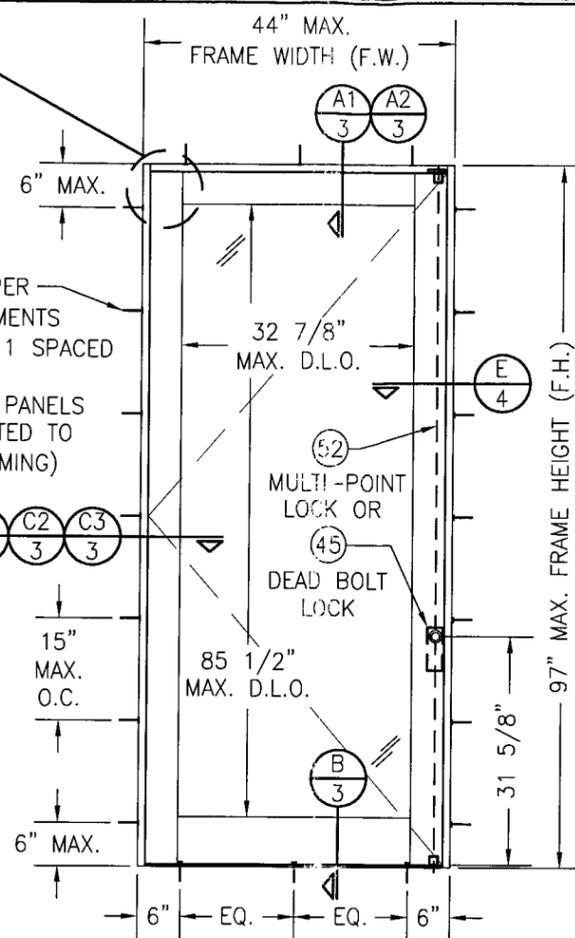
DIMENSIONS ARE TYPICAL AT HEAD AND SILL.

**EXTERIOR ELEVATION
DOUBLE OPERABLE DOOR**

SCALE: 1/2"=1'-0"

SEE "CORNER CONSTRUCTION REQUIREMENTS" ON SHEET 2.

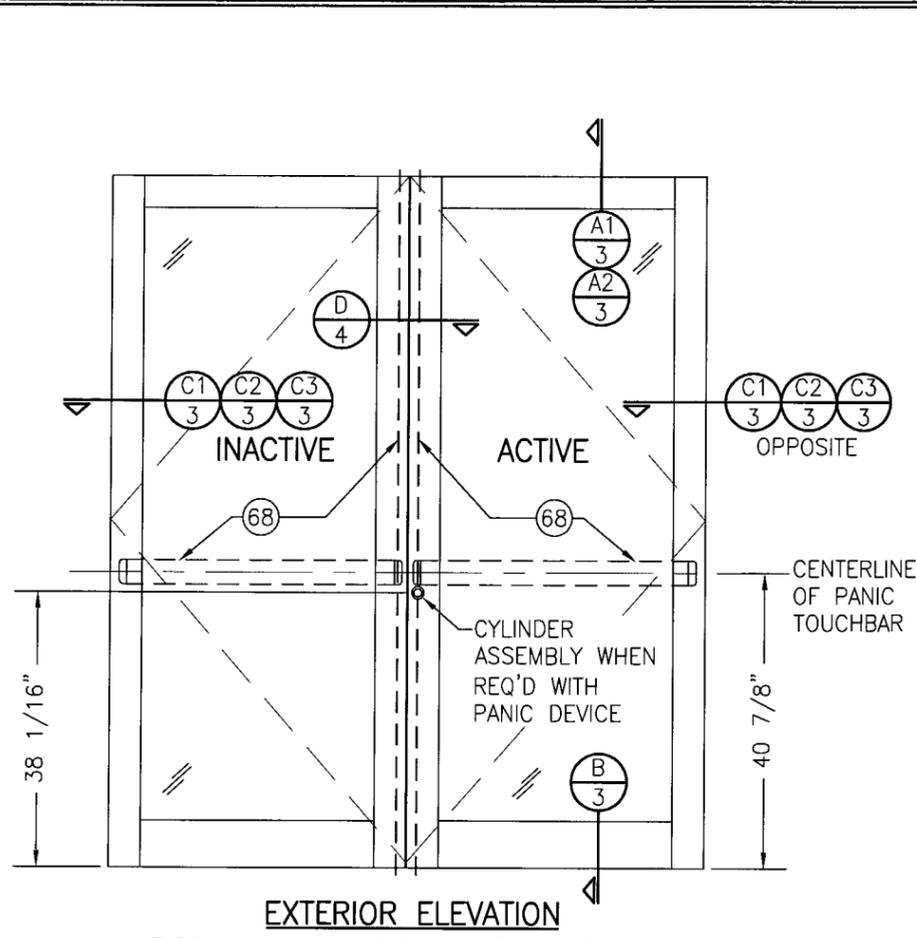
FRAME ANCHORS PER "ANCHOR REQUIREMENTS TABLE" ON SHEET 1 SPACED AS SHOWN. (NOT APPLICABLE WHEN PANELS ARE DIRECT MOUNTED TO CURTAIN WALL FRAMING)



DIMENSIONS ARE TYPICAL AT HEAD AND SILL.

**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 RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0131-06
Expiration Date APR 20, 2013
By (Shag) J. Chandra
Miami Dade Product Control
Division

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 LARGE 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. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
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 WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF 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

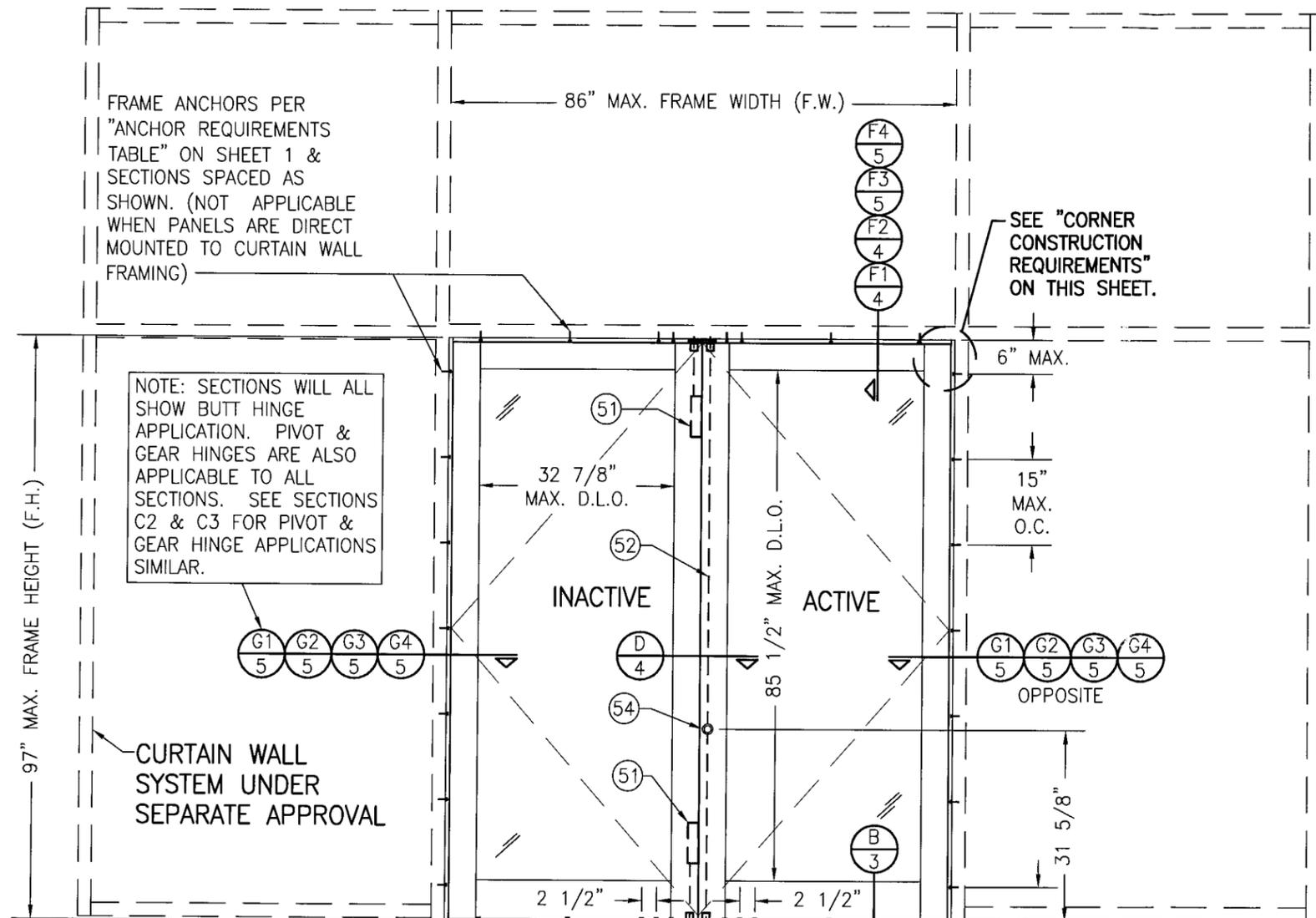
(* THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH 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"

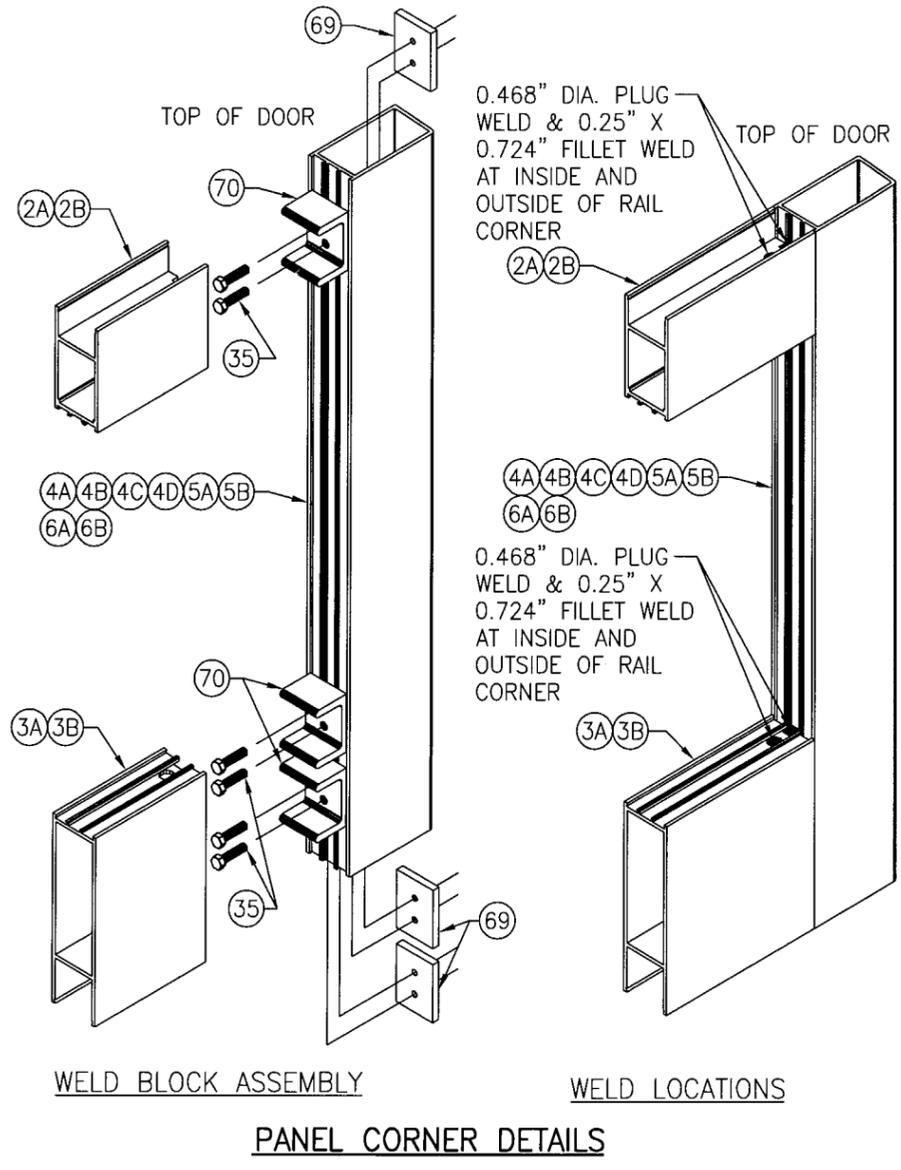
- (1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) WEDGE ANCHORS SHALL BE ITW RAMSET/RED HEAD DYNABOLTS OR HILTI KWIK-BOLT II (STEEL OR S.S.).
- (3) CMU IS ONLY APPLICABLE AT THE SIDES OF THE DOOR OPENING. CONCRETE WILL APPLY AT ALL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

DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 05/20/08
DATE: 05/08/08	BY: W.W.S.
REVISION DESCRIPTION: A1 UPDATE TO PRESENT STANDARDS	NO.:
D300/318 OUTSWING LARGE 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. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE: D300/318 OUTSWING LARGE MISSILE IMPACT DOOR	
CERTIFICATION: MAY 20 2008 WAPREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1184	REV. A
SHEET NO. 1	OF 8



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0131-06
 Expiration Date APR 10, 2013
 By Ishag I. Chaudhry
 Miami Dade Product Control
 Division

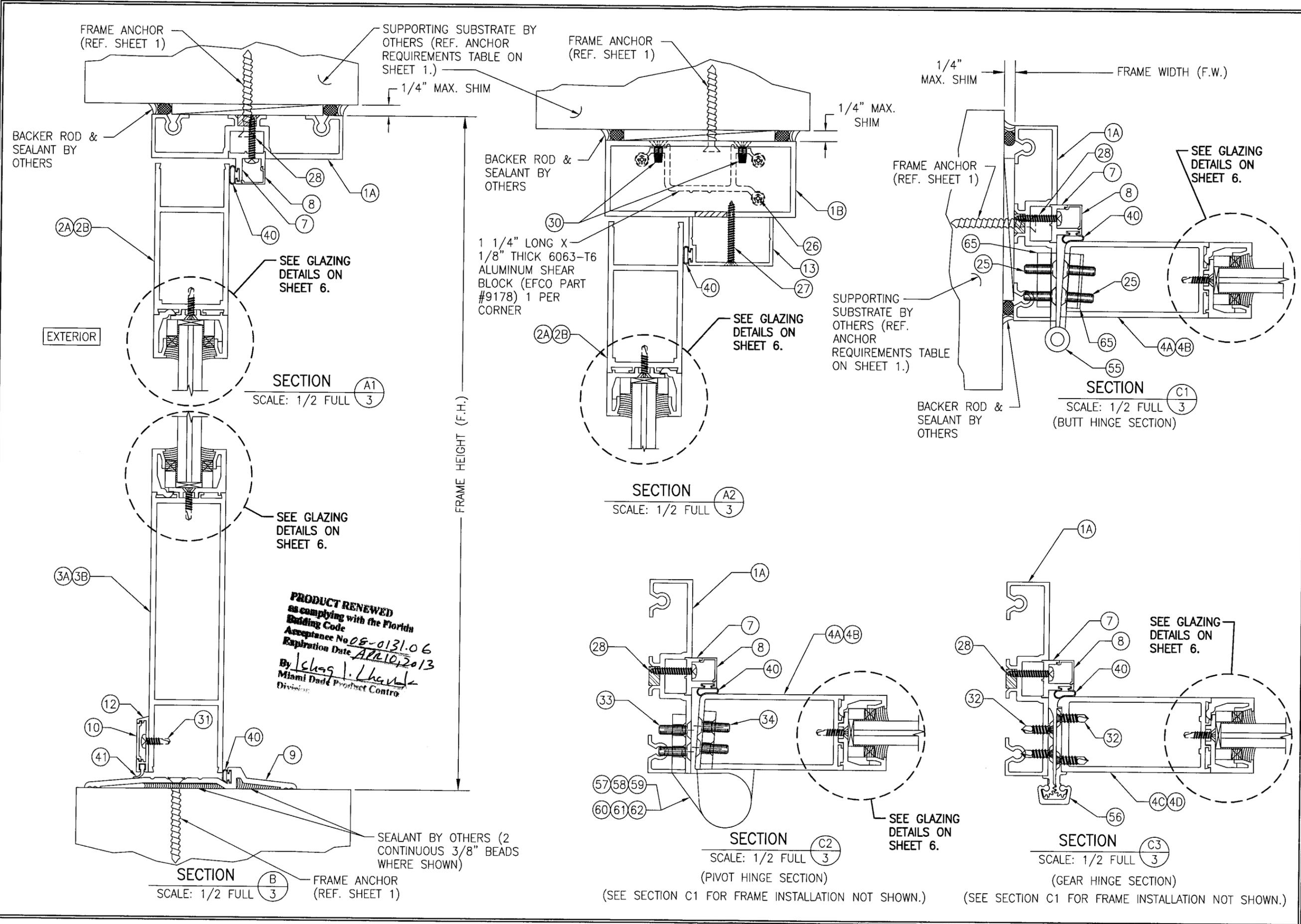
DIMENSIONS ARE TYPICAL AT HEAD AND SILL.
EXTERIOR ELEVATION
DOUBLE OPERABLE DOOR WITH CURTAIN WALL SYSTEM
 SCALE: 1/2"=1'-0"



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.

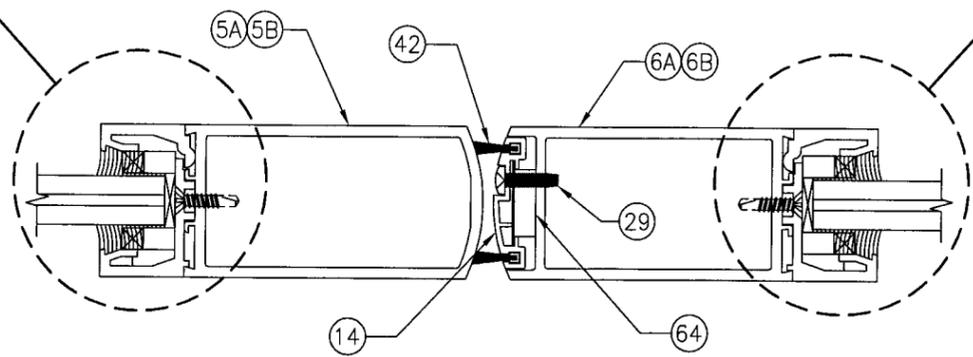
DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/20/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE D300/318 OUTSWING LARGE MISSILE IMPACT DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER EFCO CORPORATION	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION <i>(Signature)</i> MAY 20 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1184		REV. A	
SHEET NO. 2 OF 8			



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0131.06
 Expiration Date APR 10, 2013
 By Isaac I. Lhank
 Miami Dade Product Control
 Division

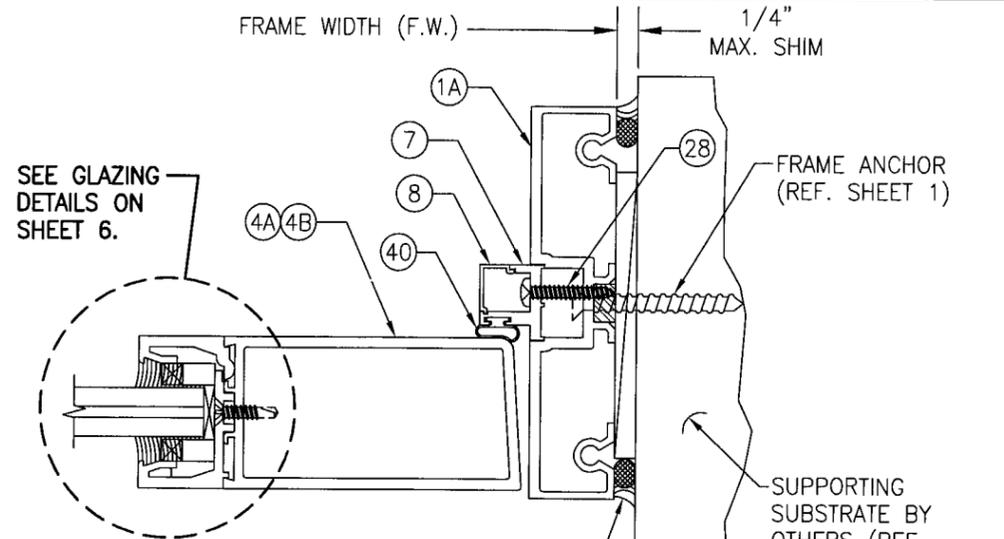
DRAWN BY: T.J.W.	CHECKED BY: W.W.S.	PLOT:	DATE:
		1=2	05/20/08
NO.	REVISION DESCRIPTION	BY	DATE
D300/318 OUTSWING LARGE MISSILE IMPACT DOOR MANUFACTURER: EFCO CORPORATION 1000 COUNTY ROAD; P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION MAY 20 2008 WAKREY W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	REV.	SHEET NO.	
1184	A	3 OF 8	

SEE GLAZING
DETAILS ON
SHEET 6.



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

SEE GLAZING
DETAILS ON
SHEET 6.

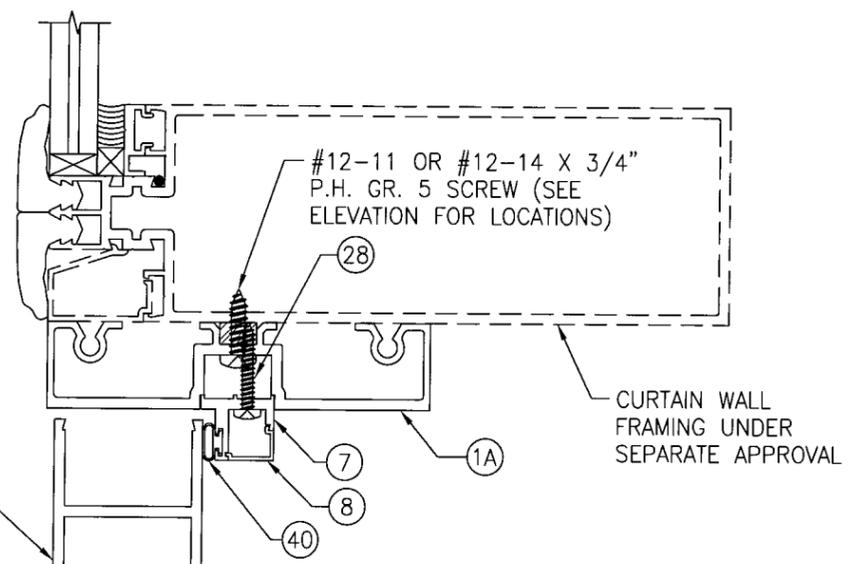


SECTION **E**
SCALE: 1/2 FULL **4**
(SHOWN WITH FRAME **1A**); ALL OTHER
FRAMES ALSO APPLICABLE)

FRAME ANCHOR
(REF. SHEET 1)

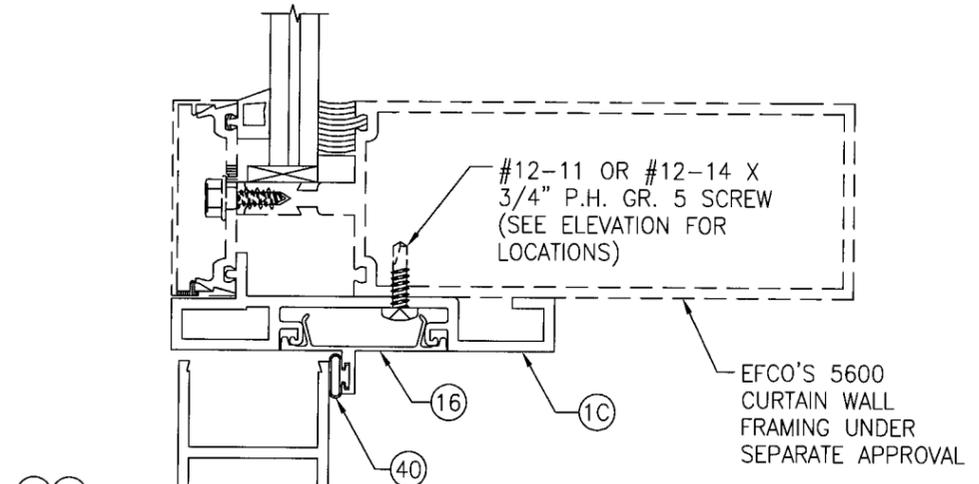
SUPPORTING
SUBSTRATE BY
OTHERS (REF.
ANCHOR
REQUIREMENTS
TABLE
ON SHEET 1.)

BACKER
ROD &
SEALANT
BY OTHERS



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

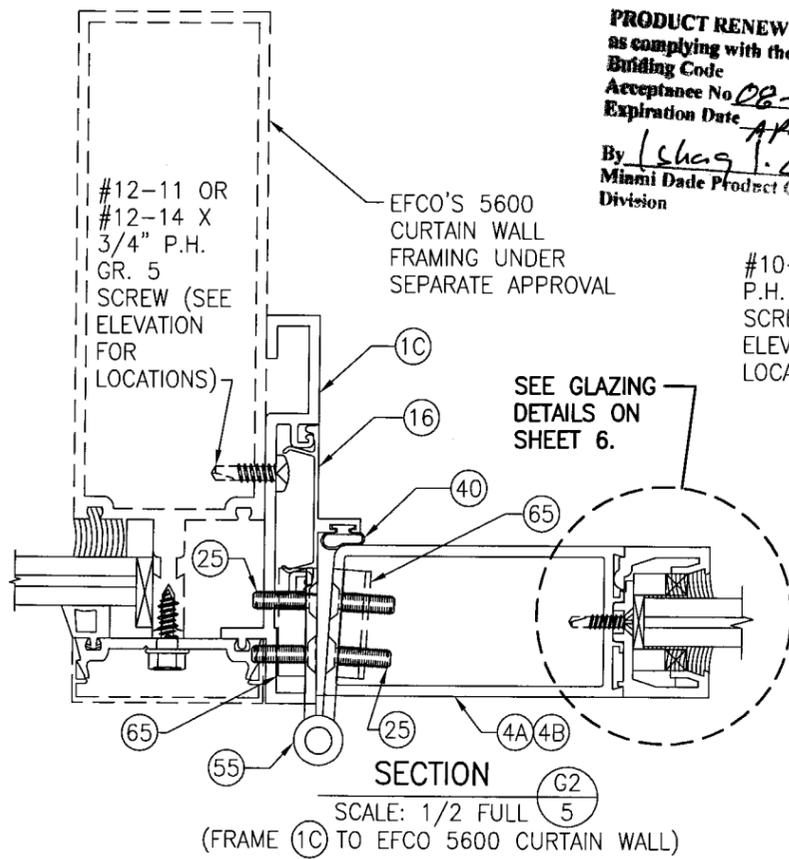
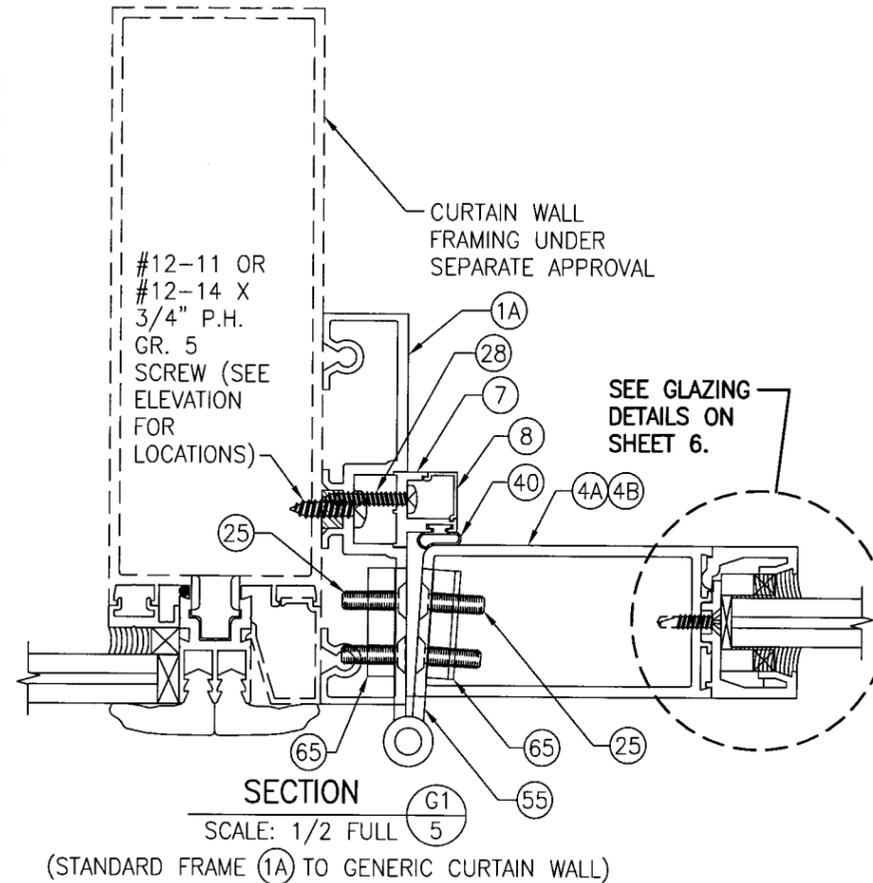
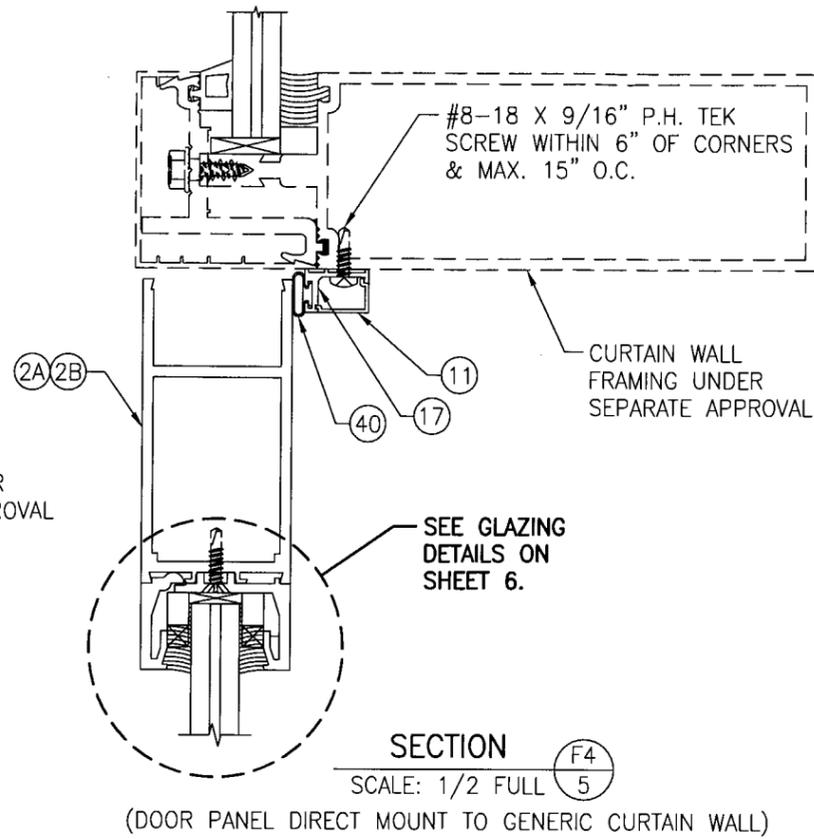
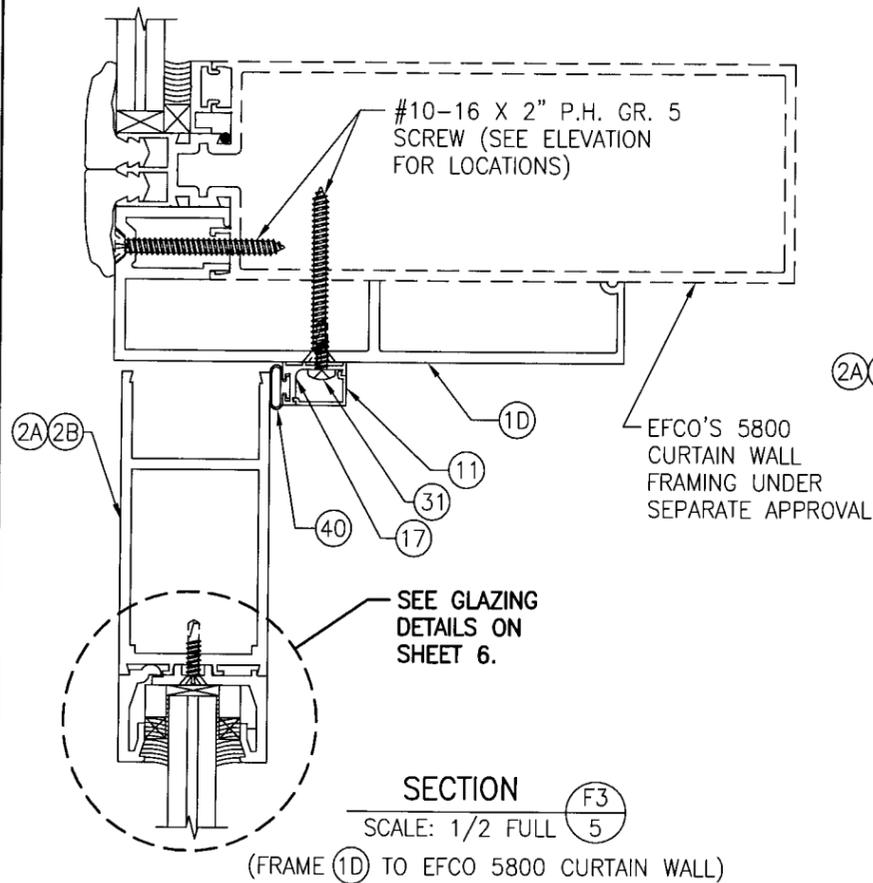
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0131-06
Expiration Date APR 10, 2013
By Isabel L. Chanda
Miami Dade Product Control
Division



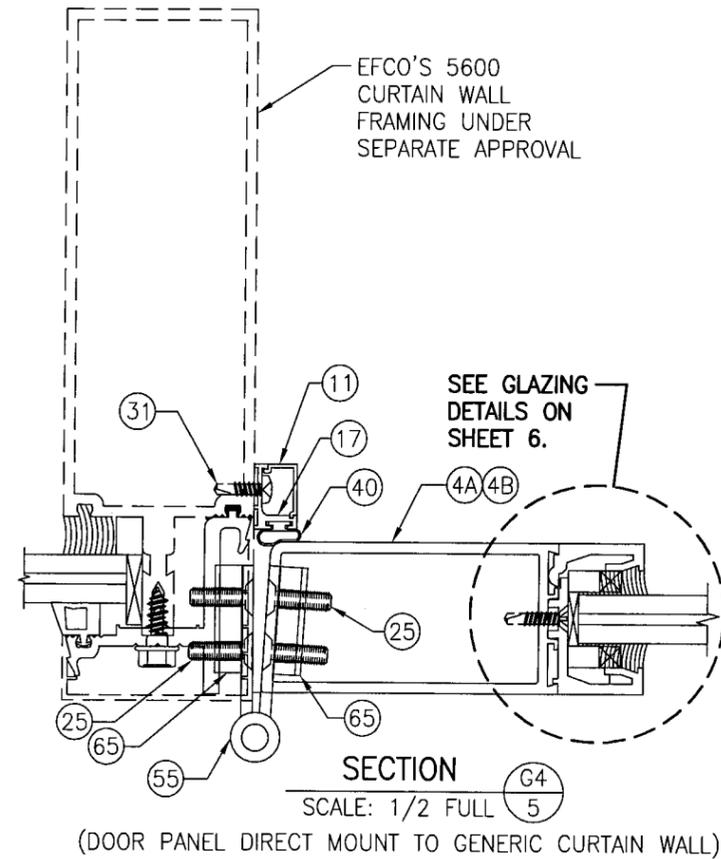
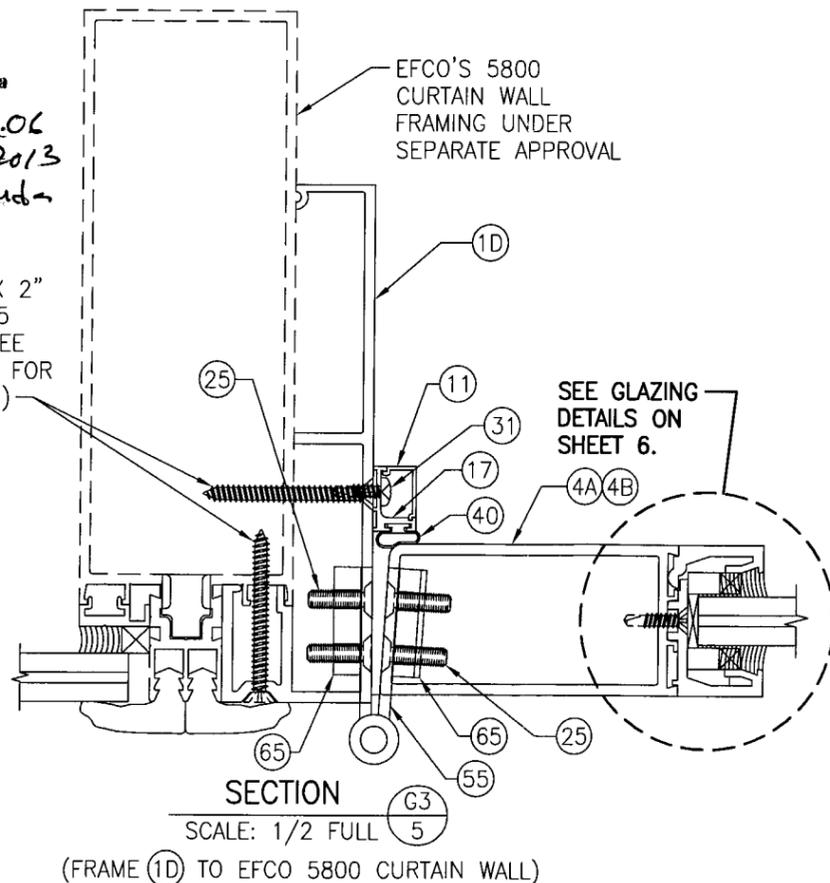
SECTION **F2**
SCALE: 1/2 FULL **4**
(FRAME **1C**) TO EFCO 5600 CURTAIN WALL)

EFCO'S 5600
CURTAIN WALL
FRAMING UNDER
SEPARATE APPROVAL

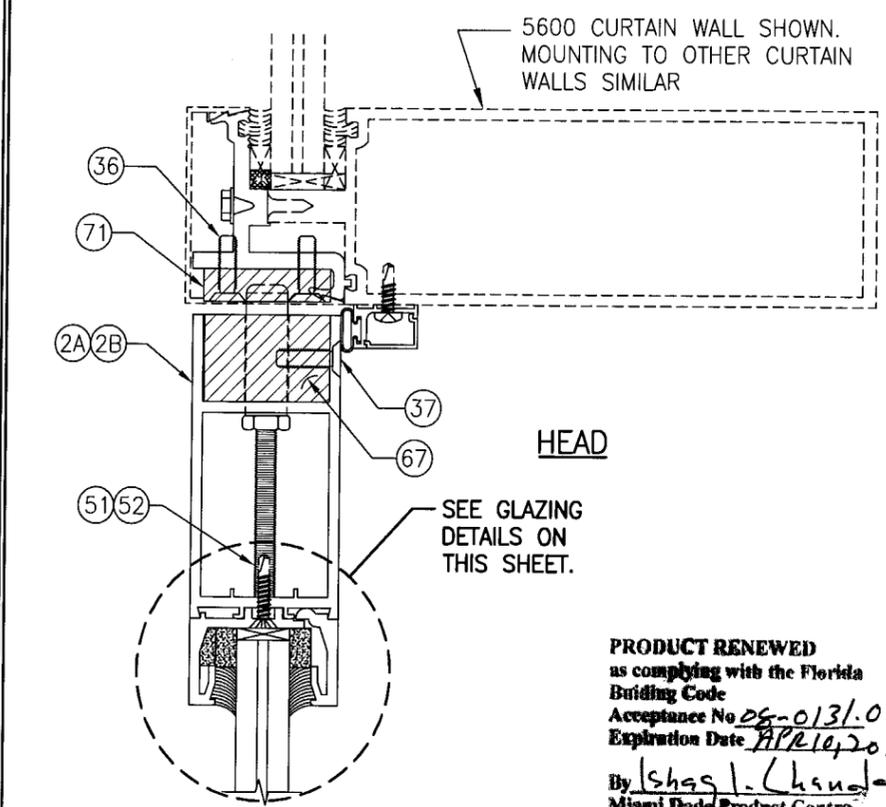
NO.	REVISION DESCRIPTION	BY	DATE	DRAWN BY: T.J.W.	CHECKED BY: W.W.S.
DRAWING TITLE		D300/318 OUTSWING LARGE MISSILE IMPACT DOOR			
CONSULTANTS		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
MANUFACTURER		EFCO CORPORATION			
DRAWING NO.		1184			
SHEET NO.		4 OF 8			
REV.		A			
CERTIFICATION		<p>WARRREN W. SCHAEFER, P.E. P.E. NO. 44135</p> <p>MAY 20 2008</p>			
PHONE: 561-775-4902		FAX: 561-775-4903			
8895 N. MILITARY TRAIL, SUITE C-204		PALM BEACH GARDENS, FL 33410			
1000 COUNTY ROAD, P.O. BOX 609		MONETT, MO 65708-0609			
800-221-4169					



PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. DB-0131.06
Expiration Date APR 10, 2013
By Leheng J. Zhaou
Miami Dade Product Control Division

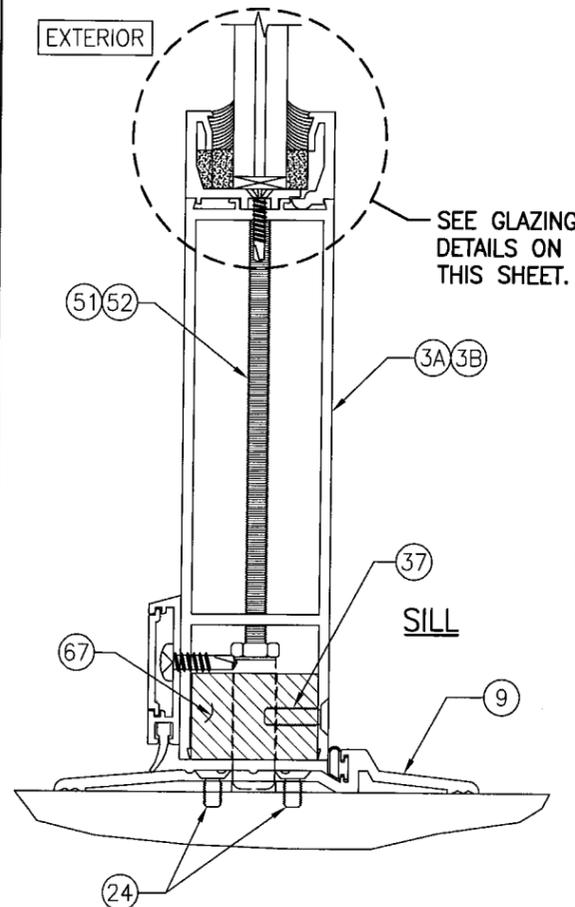


DRAWN BY: T.J.W.	CHECKED BY: W.W.S.	PLOT: 1=2	DATE: 05/20/08	NO.	REVISION	DESCRIPTION	BY	DATE
DRAWING TITLE D300/318 OUTSWING LARGE MISSILE IMPACT DOOR				MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD; P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903				CERTIFICATION MAY 20 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1184				REV. A				
SHEET NO. 5				OF 8				



HEAD

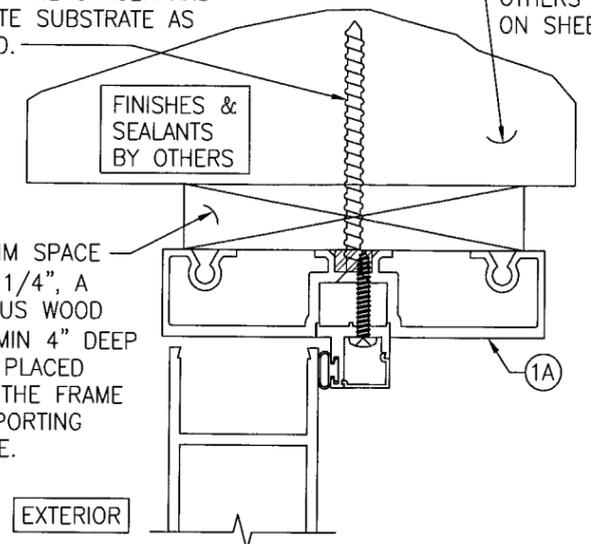
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No *06-0131-06*
 Expiration Date *APR 10, 2013*
 By *Ishag L. Chaudhry*
 Miami Dade Product Control
 Division



SILL

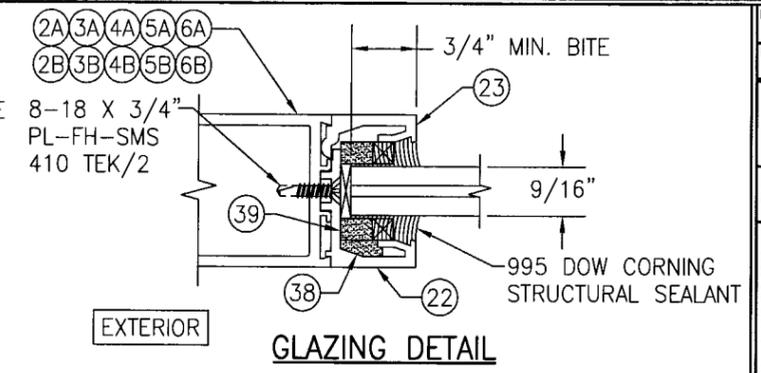
SECTION AT LOCK STRIKE

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



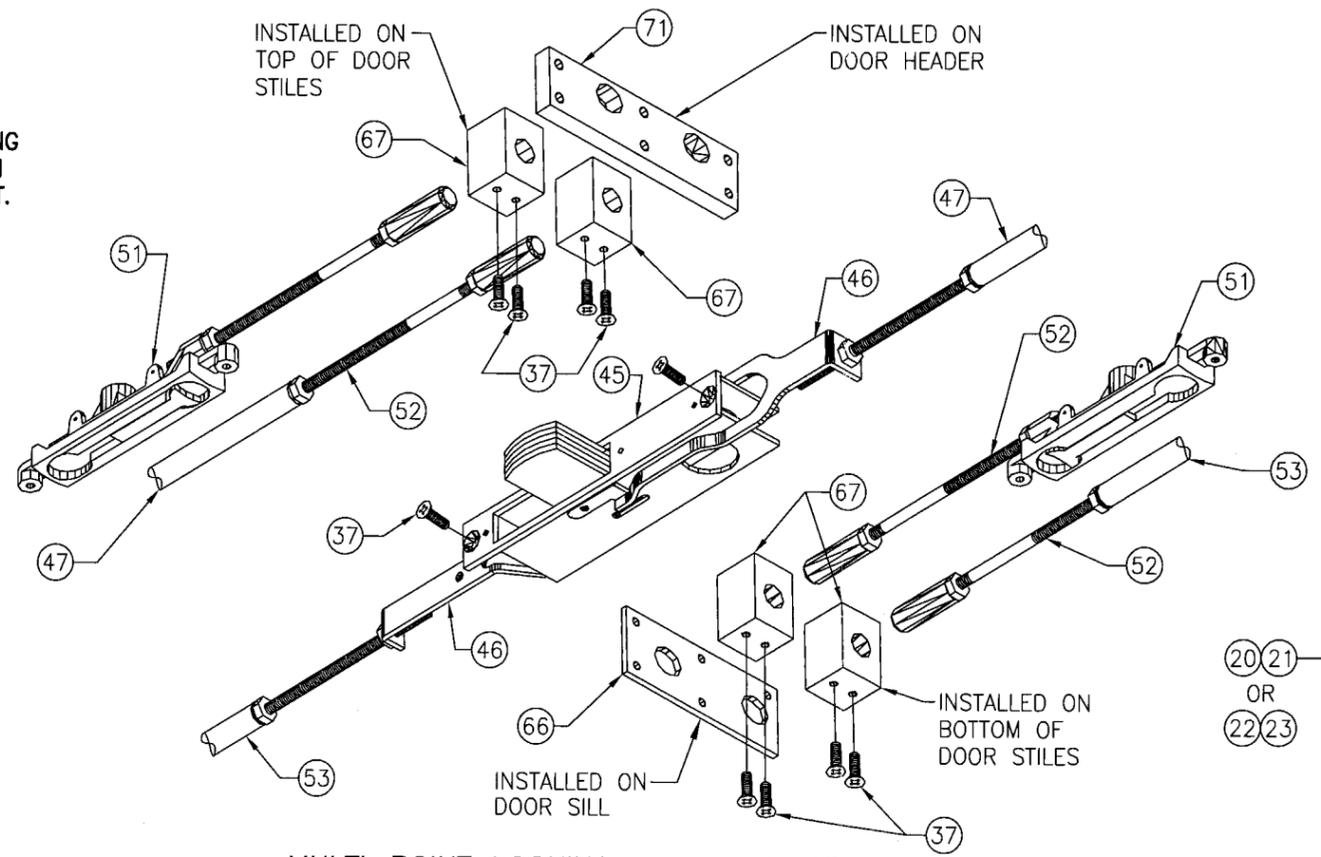
OPTIONAL SPACER MOUNT DETAIL

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

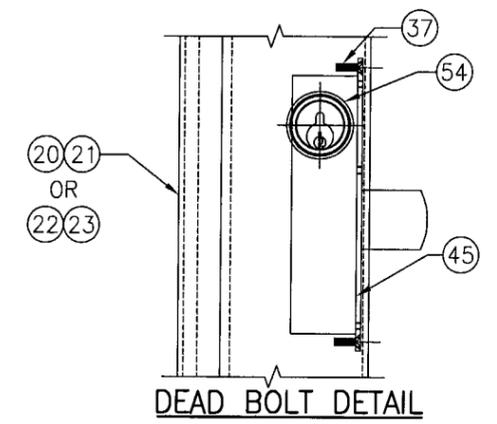


GLAZING DETAIL

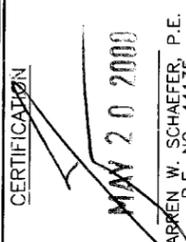
- OPTION 1: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" H.S./0.100" SOLUTIA SAFLEX H.P./1/4" H.S.)
- OPTION 2: 9/16" THICK VIRACON S.G.P. LAMINATED GLASS (1/4" H.S./0.090" DUPONT SGP/1/4" H.S.)
- OPTION 3: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" CLEAR H.S./0.090" SOLUTIA SAFLEX IIII PVB/1/4" CLEAR H.S.)

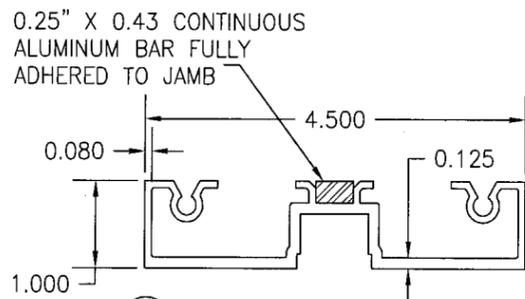


MULTI-POINT LOCKING SYSTEM DETAIL

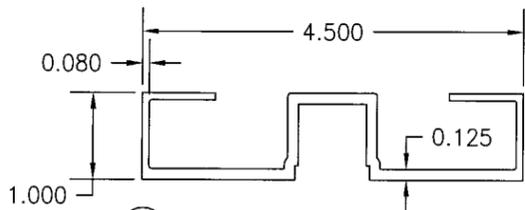


DEAD BOLT DETAIL

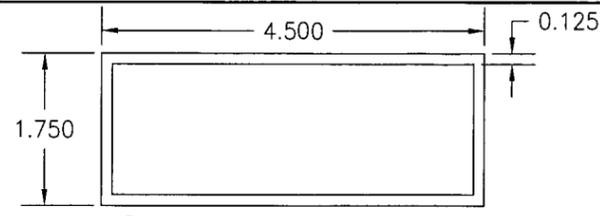
DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/20/08	
DATE	BY	REVISION DESCRIPTION	NO.
D300/318 OUTSWING LARGE MISSILE IMPACT DOOR			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION  MAY 20 2008 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1184		REV. A	
SHEET NO. 6 OF 8			



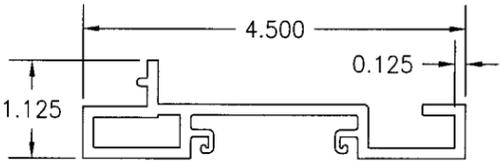
1A S5600 IMPACT HEAD JAMB (OPTION 1)



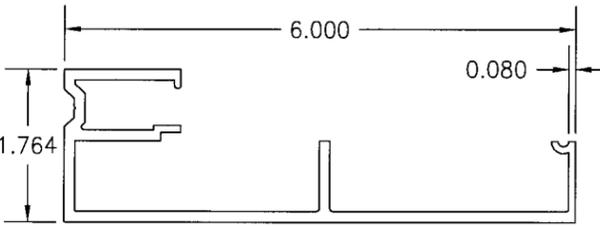
1A S5600 IMPACT HEAD JAMB (OPTION 2)



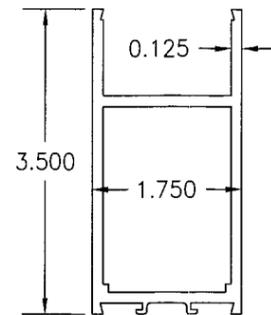
1B OPTIONAL HEAD JAMB



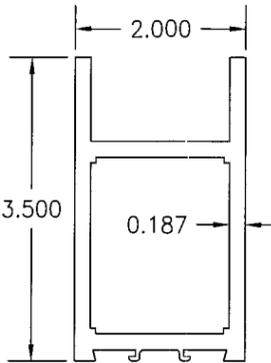
1C S5600 HEAD JAMB



1D S5800 HEAD JAMB

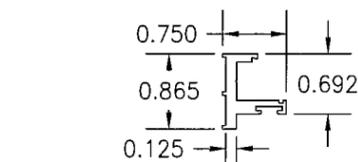


2A D300 TOP RAIL

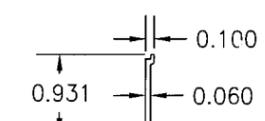


3A D300 BOTTOM RAIL

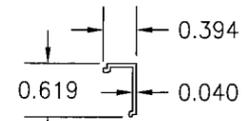
2B D318 TOP RAIL



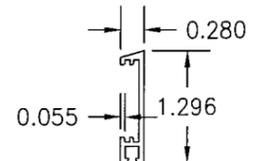
7 S5600 HORIZ. IMPACT DOOR STOP



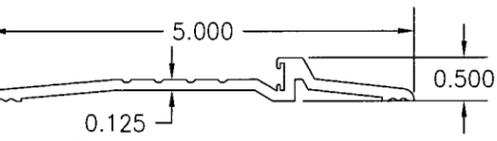
10 DOOR SWEEP COVER



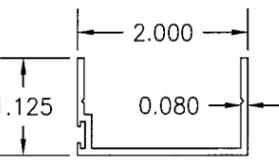
11 DOOR STOP COVER



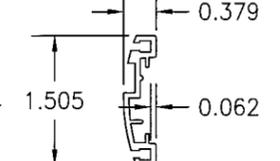
12 DOOR SWEEP



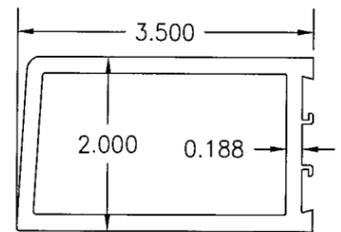
9 THRESHOLD



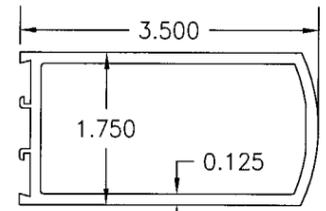
13 C.O.C. SLIDE ARM COVER



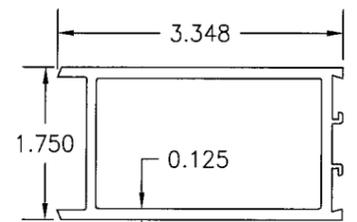
14 ADJUSTABLE ASTRAGAL



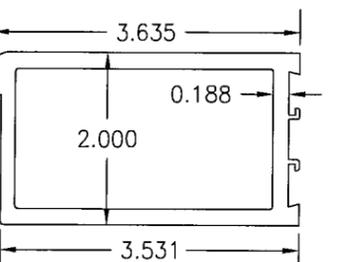
4B D318 FIXED STILE



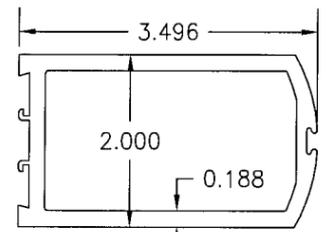
5A D300 INACTIVE LOCKING STILE



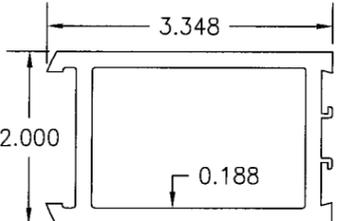
6A D300 ASTRAGAL/ACTIVE LOCKING STILE



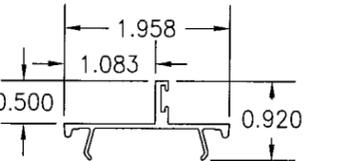
4D D318 CONTINUOUS HINGE STILE



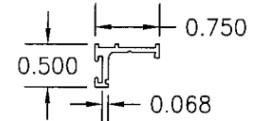
5B D318 INACTIVE LOCKING STILE



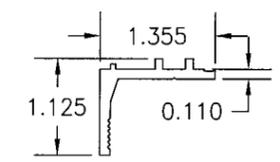
6B D318 ACTIVE LOCK STILE



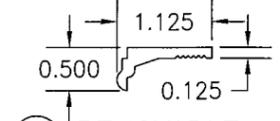
16 SNAP-IN DOOR STOP



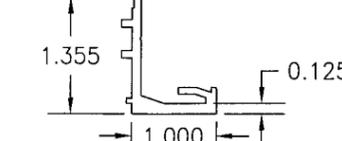
17 APPLIED DOOR STOP



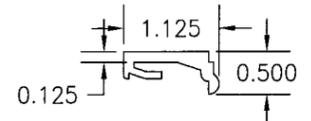
20 FIXED IMPACT STOP-1\"/>



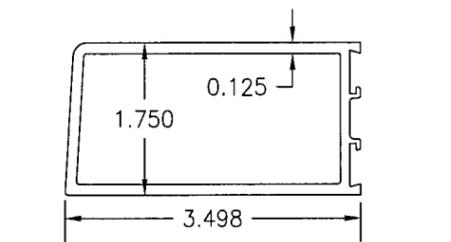
21 REMOVABLE IMPACT GLASS STOP-1\"/>



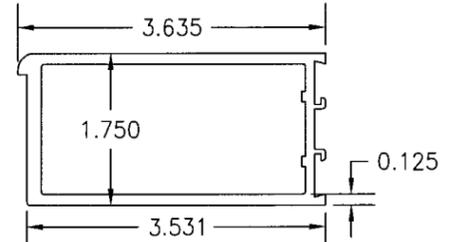
22 FIXED IMPACT GLASS STOP-1\"/>



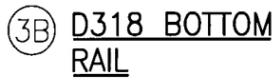
23 REMOVABLE IMPACT GLASS STOP



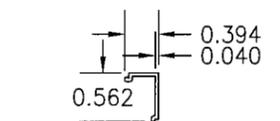
4A D300 HINGE/PIVOT/LOCK STILE



4C D300 CONTINUOUS HINGE STILE



3B D318 BOTTOM RAIL



8 S5600 IMPACT DOOR STOP COVER

PRODUCT RENEWED as complying with the Florida Bridging Code
 Acceptance No. 06-0131-06
 Expiration Date APR 10, 2013
 By Shag Choudhary
 Miami Dade Product Control Division

DRAWN BY: T.J.W.		CHECKED BY: W.W.S.	
PLOT: 1=1		DATE: 05/20/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: D300/318 OUTSWING LARGE MISSILE IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: EFCO CORPORATION	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION: <u>WARREN W. SCHAEFER, P.E.</u> MAY 20 2008			
DRAWING NO. 1184		REV. A	
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
20	4417	HORIZ./VERT. FIXED GLASS STOP (1" GLZ.)	EFCO; 6063-T6 ALUMINUM
21	4418	HORIZ./VERT. REMOVABLE GLASS STOP (1" GLZ.)	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

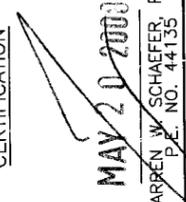
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-031-06
Expiration Date 06/10/2013
By Ishag J. Chaudhry
Miami Trade Product Control
Division

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	D064 AND D065 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.
D300/318 OUTSWING LARGE MISSILE IMPACT DOOR EFCO CORPORATION 1000 COUNTY ROAD; P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION  MAY 20 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1184	REV. A
SHEET NO. 8	OF 8