



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)

www.buildingcodeonline.com

EFCO Corporation
1000 County Road
Monett, MO 65708

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 5600-8" Deep Frame - Aluminum Curtain Wall System-L.M.I.

APPROVAL DOCUMENT: Drawing No. **1088**, titled "8" Deep Series 5600 Large Missile Impact Curtain Wall System", sheets 1 through 9 of 9, dated 01/15/02, with last revision "B1" dated 07/27/05, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and 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 **renews NOA # 05-1212.08** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5 as well as approval document mentioned above.

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



J. Gascon
4/20/07

NOA No 07-0305.03
Expiration Date: June 27, 2012
Approval Date: May 17, 2007
Page 1

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1088**, dated 01/15/02, with last revision "**B1**" dated 07/27/05, titled "8" Deep Series 5600 Large Missile Impact Curtain Wall System", sheets 1 through 9 of 9, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a multiple span EFCO S5600 - **8"** deep outsize glazed aluminum curtain wall system 202" wide x 341" high x 64" return, specimen # **1 (A-A1)**, Glass types: **1, 2, 4, 5, 6A & 8**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0413-01**, dated 2/16-19/01, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 05-1212.08"

2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FC, TAS 203-94

along with installation diagram of a single span EFCO S5600 - **8"** deep outsize glazed aluminum curtain wall system 181-1/2" wide x 150" high, specimen # **9 (B1)**, Glass types: **3 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/24-27/01, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 05-1212.08"

3. 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) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a single span EFCO S5600 - **8"** deep outsize glazed aluminum curtain wall system 181-1/2" wide x 121-3/4" high, specimen # **3 (B3)**, Glass types: **6 & 7**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/14-15/01, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 05-1212.08"



Jaime D. Gascon, P.E.

Chief, Product Control Division
NOA No 07-0305.03

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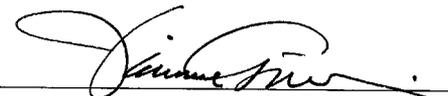
4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 7” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **6 (C)**, Glass types: **1, 3A & 4**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0413-01**, dated 4/26-27/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 6” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 169-1/4” high, specimen # **2 (D)**, Glass types: **1, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/13-16/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **4 (E)**, Glass type: **5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/16-17/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
7. 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) Water Resistance Test, per FBC, TAS202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **1 (F)**, Glass type: **2**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0517-01**, dated 5/11-17/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 07-0305.03
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8. 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) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outside glazed aluminum curtain wall system 181-1/2” wide x 116” high, specimen # **5 (G)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/20/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
9. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outside glazed aluminum curtain wall system 181-1/2” wide x 150” high, specimen # **6b (H)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-23/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
10. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 6” deep outside glazed aluminum curtain wall system 181-1/2” wide x 98” high, specimen # **8 (J)**, Glass types: **1, 2 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/23-24/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”
11. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outside glazed aluminum curtain wall system 181-1/2” wide x 150” high, specimen # **6a (K)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-23/01, signed and sealed by Vinu J. Abraham, P.E.
“Submitted under NOA # 05-1212.08”



Jaime D. Gascon, P.E.
Chief, Product Control Division
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12. 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) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a single span EFCO S5600 – **6” deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 112” high, specimen # **7 (L)**, Glass type: **5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-22/01, signed and sealed by Vinu J. Abraham, P.E.

“Submitted under NOA # 05-1212.08”

13. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a single span EFCO S5600 – **8” deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **1 (M)**, Glass type: **6a**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-1004-01**, dated 10/17/01, signed and sealed by Vinu J. Abraham, P.E.

“Submitted under NOA # 05-1212.08”

14. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a series 300 medium stile pair of doors in an 8” deep aluminum curtain wall system frame; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-1217-01, Elevation F**, dated 12/12-13/01, signed & sealed: Vinu J. Abraham, P.E.

“Submitted under NOA # 05-1212.08”

15. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a series 300 medium stile pair of doors in an 8” deep aluminum curtain wall system frame; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0315-02, Elev. H**, dated 3/19-25/03, signed & sealed by Vinu J. Abraham, P.E.

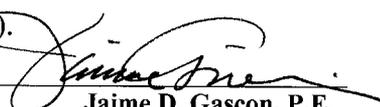
“Submitted under NOA # 05-1212.08”

C. CALCULATIONS:

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 07/27/05, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

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


Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 07-0305.03
Expiration Date: June 27, 2012
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E. MATERIAL CERTIFICATIONS

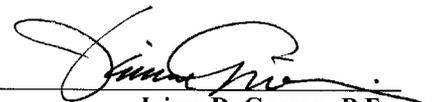
1. Notice of Acceptance No. **06-1205.10** issued to **E.I. DuPont DeNemours & CO., Inc.** for "**DuPont SentryGlas Plus**" dated 02/15/2007, expiring on 01/14/2008.
2. Notice of Acceptance No. **02-1205.03** issued to **Security Impact Glass Holdings L.L.C.** for "**SAFE - GLASS**" dated 01/02/03, expiring on 12/16/07.
3. Notice of Acceptance No. **02-0916.04** issued to **Viracon, Inc.** for "**Storm Guard (lamine)**" dated 05/22/03, expiring on 04/14/08.

F. STATEMENTS

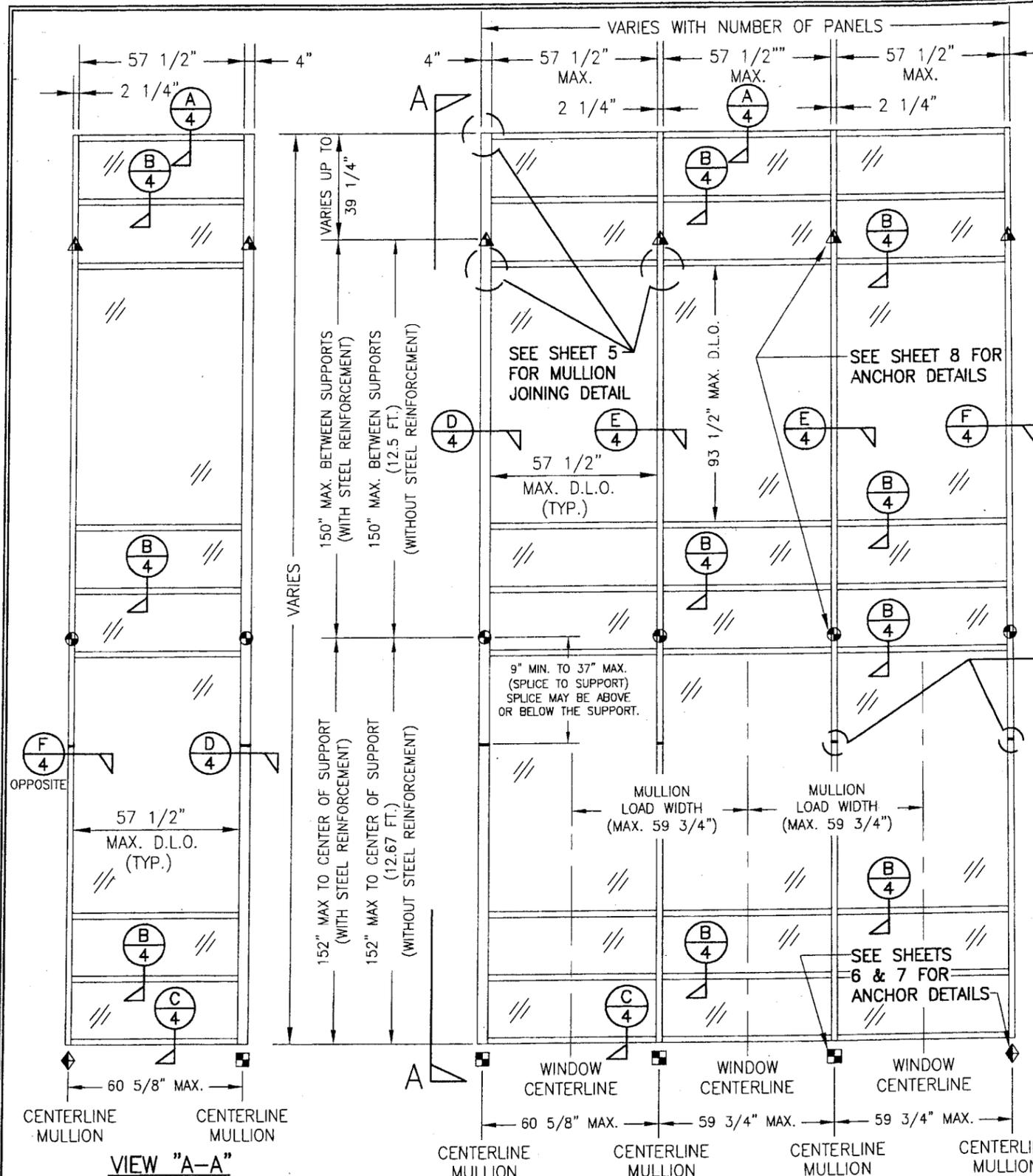
1. Statement letter of conformance, dated February 11, 2002, signed and sealed by Warren W. Schaefer, P.E.
"Submitted under NOA # 05-1212.08"
2. Statement letter of no financial interest February 11, 2002, signed and sealed by dated Warren W. Schaefer P.E.
"Submitted under NOA # 05-1212.08"

G. OTHER

None



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 07-0305.03
Expiration Date: June 27, 2012
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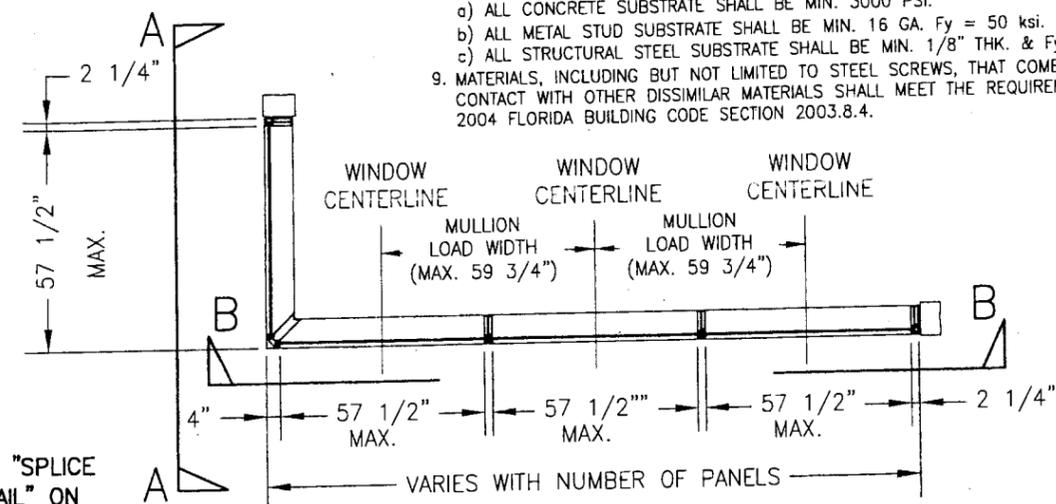
VIEW "A-A"
(EXTERIOR ELEVATION)
ONLY ONE ROW SHOWN; MORE THAN ONE ROW MAY BE INSTALLED

EXTERIOR ELEVATION; VIEW "B-B"
CURTAIN WALL WITH MULTIPLE VERTICAL SPANS
SCALE: 1/4"=1'-0"

ALLOWABLE DESIGN LOADS
SEE LOAD TABLES ON SHEET 3

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A MULTI-STORY APPLICATION. THE NUMBER OF FLOORS WITH WHICH THIS SYSTEM MAY BE USED RANGE FROM TWO(2) TO UNLIMITED WITH THE ONLY RESTRICTIONS BEING AS SHOWN ON THE SPAN BETWEEN FLOORS/SUPPORTS AND THE D.L.O. SIZE

- ◆ = F OR TF-ANCHOR
- = M OR TM-ANCHOR
- = DEAD LOAD ANCHOR
- ▲ = WIND LOAD ANCHOR
- ⊙ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR



PLAN VIEW
CURTAIN WALL WITH MULTIPLE VERTICAL SPANS
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & 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 & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR IMPACT REQUIREMENTS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (F.B.C.) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
7. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
8. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
 - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
 - b) ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 50 ksi.
 - c) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/8" THK. & Fy = 36 ksi.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.

"F", "TF", "M", "TM" & SHEAR BLOCK ANCHOR FASTENER REQUIREMENTS TABLE

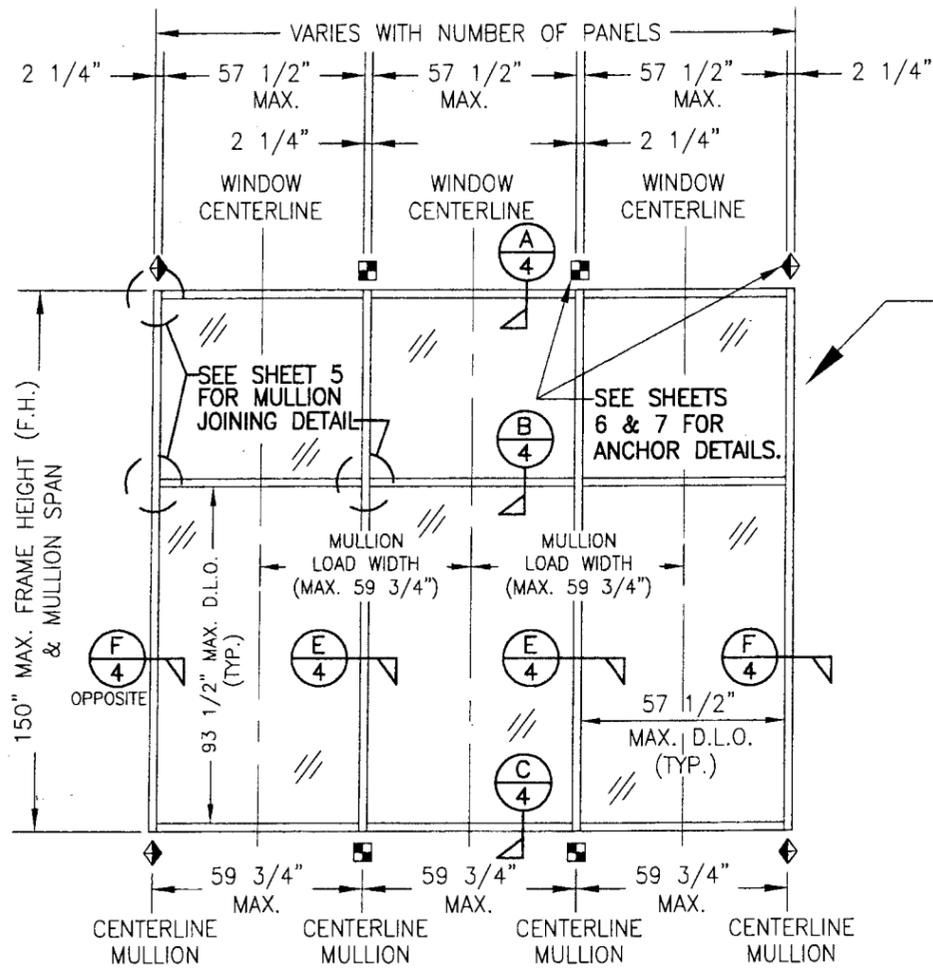
OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	NO. FASTENERS PER ANCHOR INTO SUBSTRATE		MINIMUM EMBED	EDGE DIST.
		SHEAR BLOCK ANCHORS	F, TF, M & TM ANCHORS		
MIN. 16 GA. STUD	(1) NO. 14 SELF TAP/DRILLING SCREW	5	6	FULL	1/2"
STRUCT. STEEL MIN. 1/8" THK.	(1) NO. 14 SELF TAP/DRILLING SCREW	5	6	FULL	1/2"
CONCRETE	(2) 3/8" ADHESIVE ANCHORS	N/A	4	3 1/2"	2 1/2"
CONCRETE	(2) 1/2" ADHESIVE ANCHORS	2	N/A	4 1/8"	3 1/2"

- (1) SELF DRILLING/TAPPING SCREWS SHALL BE MIN. GR. 5 STEEL & BE COATED TO RESIST CORROSION & REACTIONS WITH DISSIMILAR MATERIALS.
- (2) ADHESIVE ANCHORS SHALL BE HILTI HVA ADHESIVE ANCHOR OR POWERS RAWL POWER-FAST ADHESIVE ANCHOR (A307, A36 OR ASTM A193 B7 STEEL OR 304/316 STAINLESS STEEL)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 07-0305-03
Expiration Date 06/27/2012

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 05-1212-08
Expiration Date 06/27/10

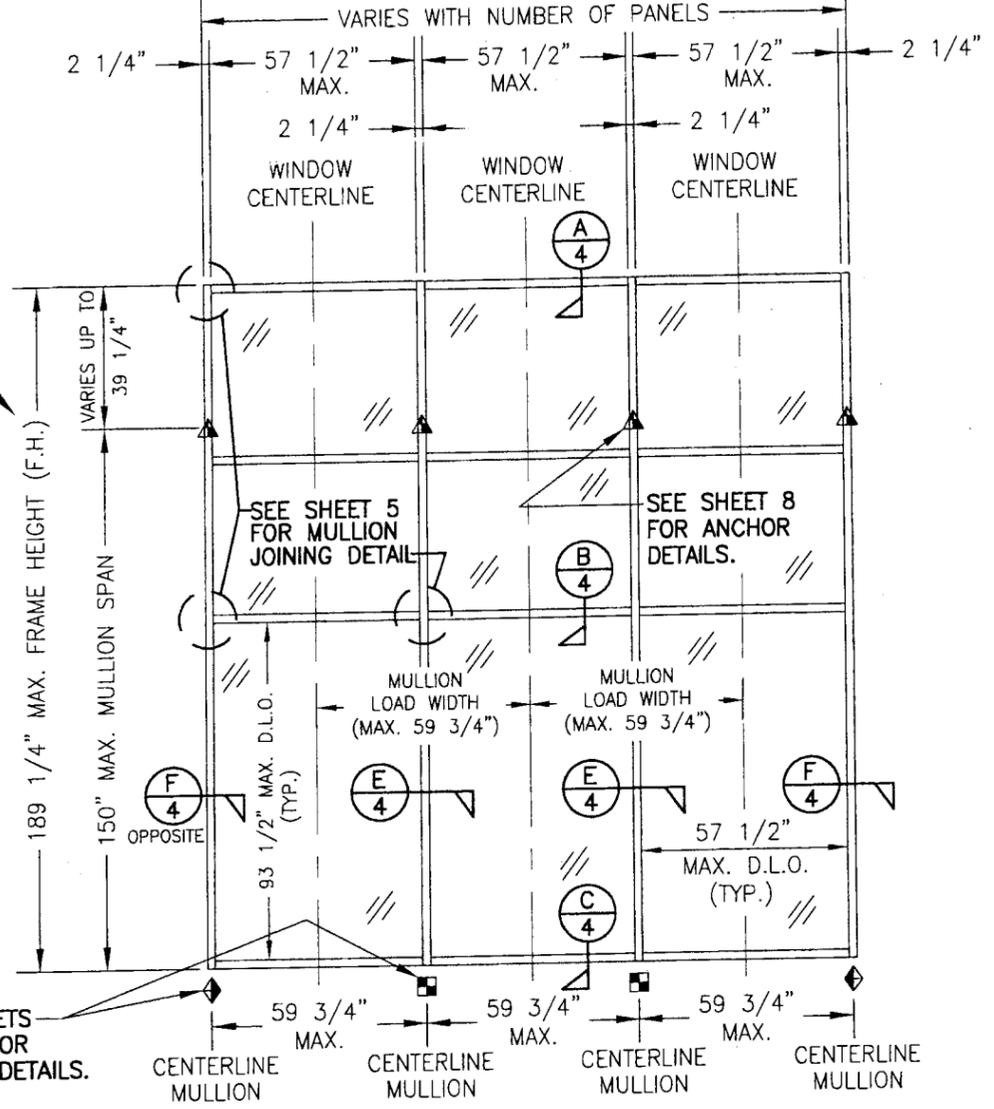
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 01/15/02	
NO.	REVISION DESCRIPTION	DATE	BY
A1	ADDED DOOR OPENING CONDITION & EDITED LOAD TABLES TO INCORPORATE DOOR CONDITION UPDATE TO 2004 CODE	01/29/03	K.P.S.
B1		07/27/05	K.P.S.
DRAWING TITLE			
8" DEEP SERIES 5600 LARGE MISSILE IMPACT CURTAIN WALL SYSTEM			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		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			
SEP 01 2006			
DRAWING NO.		REV.	
1088		B	
SHEET NO.			
1 OF 9			



**EXTERIOR ELEVATION
CURTAIN WALL WITH SINGLE VERTICAL SPAN**
SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A SINGLE SPAN APPLICATION. ALL SINGLE SPAN APPLICATIONS ARE LIMITED BY EACH THE D.L.O. SIZES OF THE LIGHTS & THE HEIGHT/SPAN SHOWN. IF REQUIRED HEIGHT EXCEEDS THAT SHOWN IN THIS ELEVATION, THE SYSTEM MUST BE SUPPORTED AS TWO OR MORE SPANS PER THE MULTIPLE SPAN ELEVATION.

NOTE: THE ELEVATIONS ON THIS SHEET MAY HAVE A 90 DEGREE TURN AS SHOWN ON SHEET 1 ELEVATION OF THE MULTI-SPAN SYSTEM. REF. VIEW "A-A" ON SHEET 1 FOR DETAIL.



**EXTERIOR ELEVATION; CURTAIN WALL
WITH SINGLE VERTICAL SPAN AND CANTELEVER**
SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A SINGLE SPAN APPLICATION. ALL SINGLE SPAN APPLICATIONS ARE LIMITED BY EACH THE D.L.O. SIZES OF THE LIGHTS & THE HEIGHT/SPAN SHOWN. IF REQUIRED HEIGHT EXCEEDS THAT SHOWN IN THIS ELEVATION, THE SYSTEM MUST BE SUPPORTED AS TWO OR MORE SPANS PER THE MULTIPLE SPAN ELEVATION.

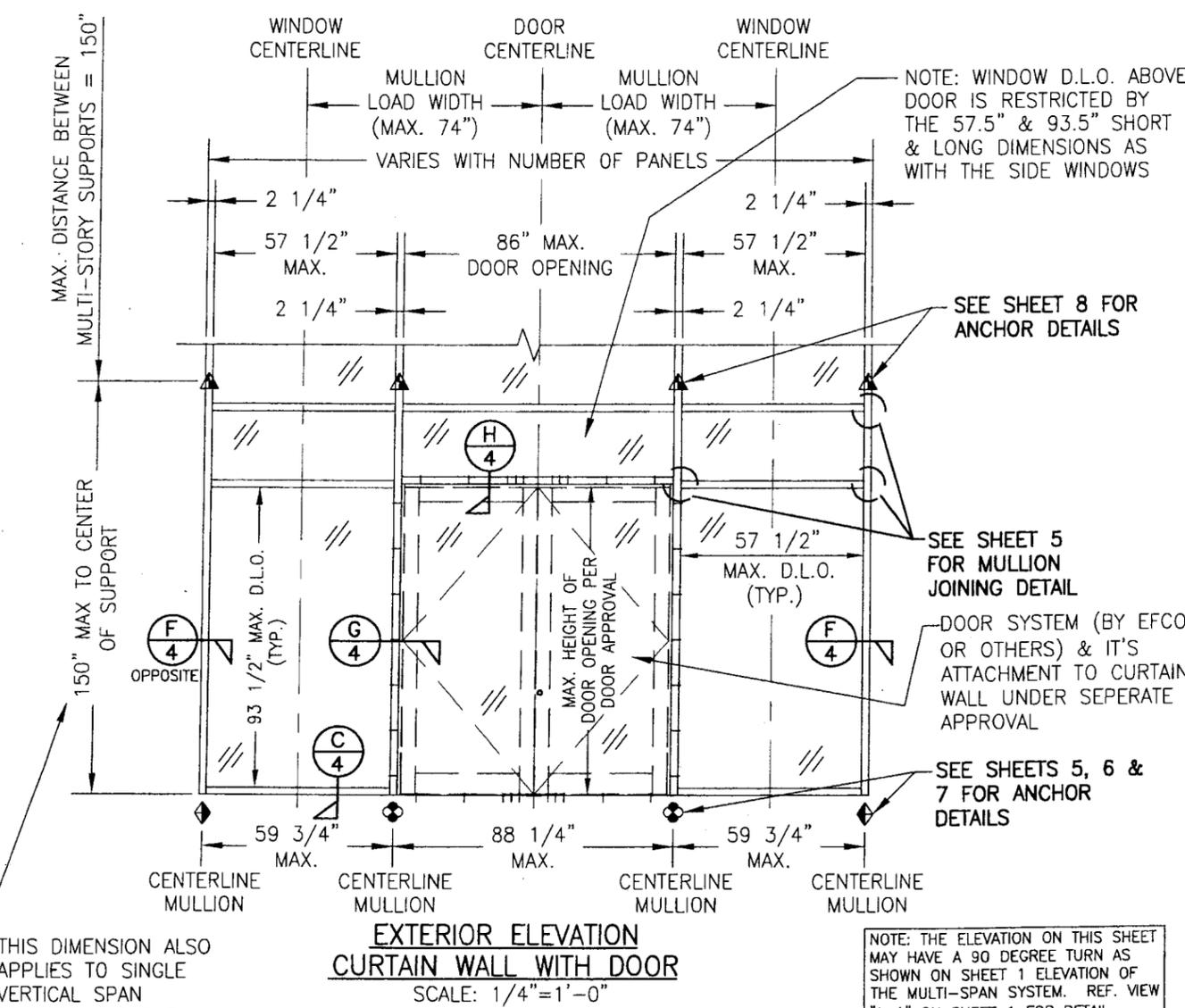
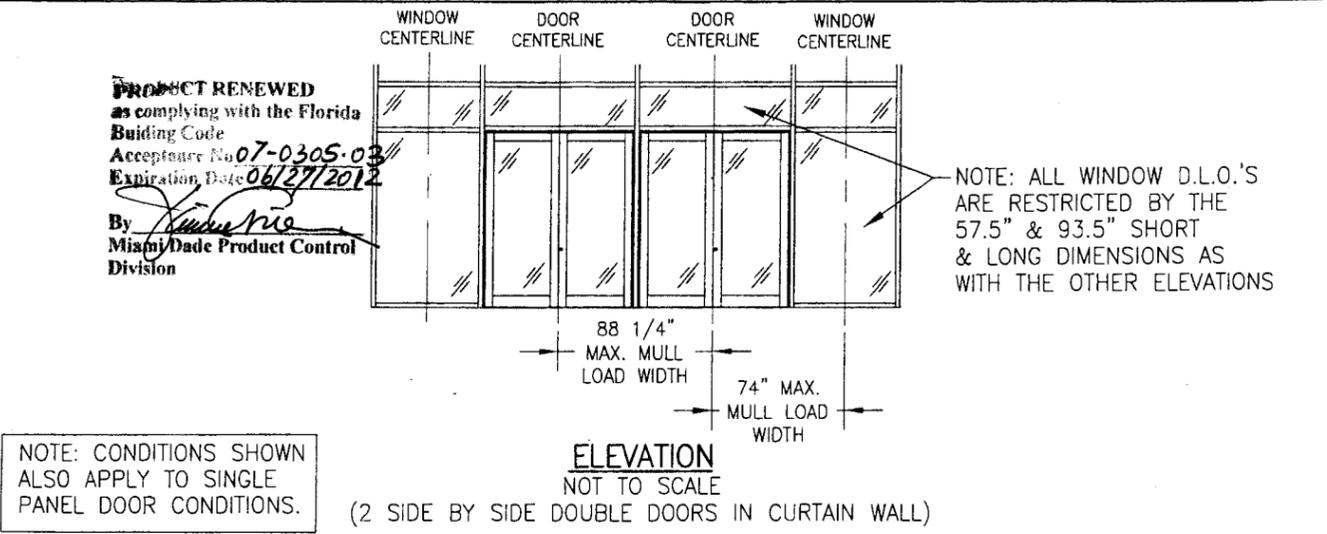
- ◆ = F OR TF-ANCHOR
- = M OR TM-ANCHOR
- = DEAD LOAD ANCHOR
- ▲ = WIND LOAD ANCHOR
- ⊙ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0305.03
Expiration Date 06/27/2012
By *[Signature]*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1212.08
Expiration Date 06/27/07
By *[Signature]*
Miami Dade Product Control
Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=48	DATE: 01/15/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	
8" DEEP SERIES 5600 LARGE MISSILE IMPACT CURTAIN WALL SYSTEM	
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	
SEP 04 2005	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1088	REV. B
SHEET NO. 2 OF 9	

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=48	DATE: 01/15/02
NO.	REVISION DESCRIPTION
DRAWING TITLE 8" DEEP SERIES 5600 LARGE MISSILE IMPACT CURTAIN WALL SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION SEP 0 1 2005	DRAWING NO. 1088
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	REV. B
	SHEET NO. 3 OF 9

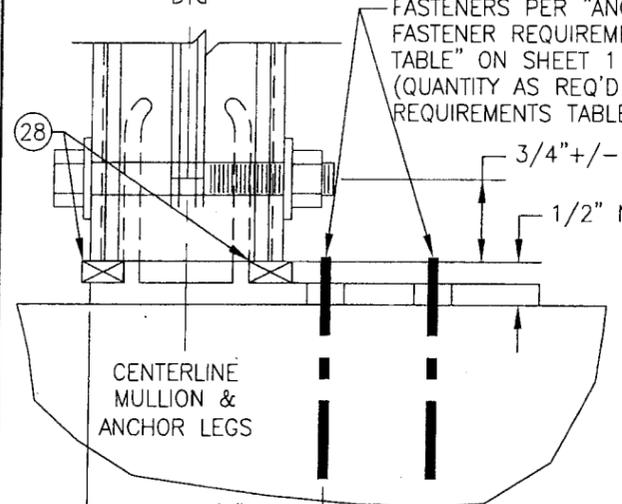
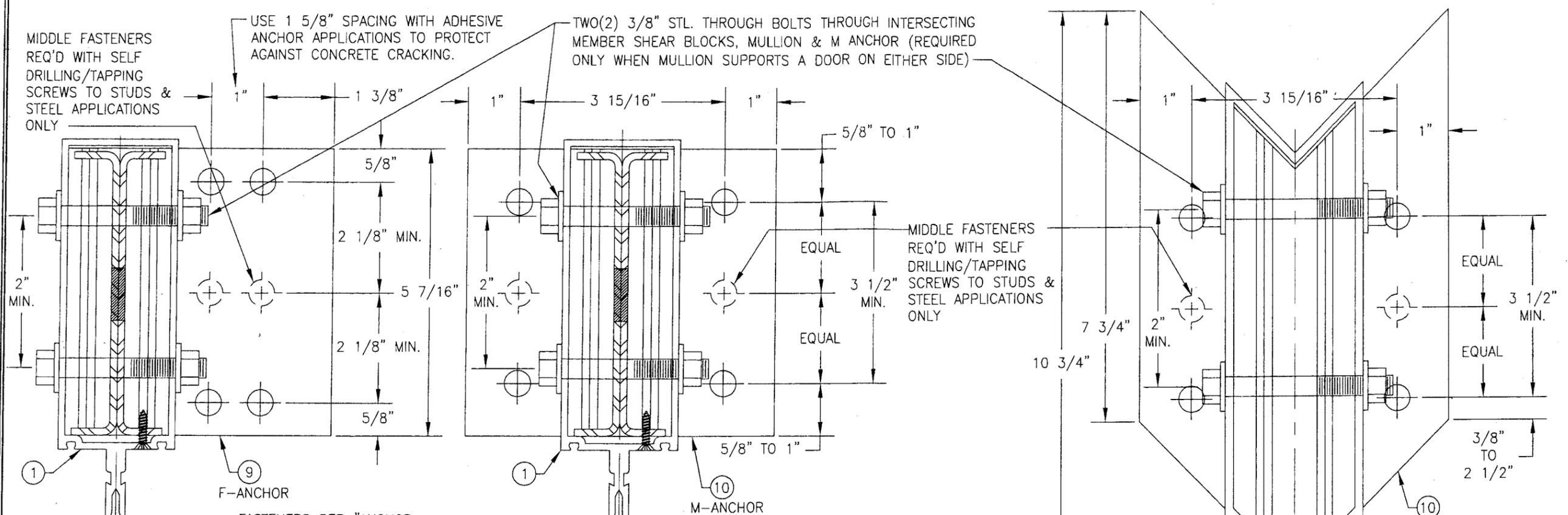


ALLOWABLE FRAMING DESIGN PRESSURES					
WITHOUT REINFORCEMENT IN MULLIONS			WITHOUT REINFORCEMENT IN MULLIONS		
VERTICAL DISTANCE BETWEEN SUPPORTS	MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD	VERTICAL DISTANCE BETWEEN SUPPORTS	MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD
		POSITIVE & NEGATIVE (PSF)			POSITIVE & NEGATIVE (PSF)
96" & LESS	80"	90.0	150"	24"	90.0
	88"	89.2		30"	79.7
102"	74"	90.0		36"	66.4
	80"	86.9		42"	56.9
108"	88"	79.0		48"	49.8
	66"	90.0		54"	44.3
	74"	83.8		59 3/4"	40.0
116"	80"	77.5		66"	36.2
	88"	70.5		74"	32.3
	59 3/4"	90.0		80"	29.9
120"	66"	81.5	88"	27.2	
	74"	72.7	WITH REINFORCED VERTICAL MULLIONS		
	80"	67.2	VERTICAL DISTANCE BETWEEN SUPPORTS	MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD
	88"	61.1	POSITIVE & NEGATIVE (PSF)		
132"	54"	90.0	120" & LESS	88"	90.0
	59 3/4"	81.3		80"	90.0
	66"	73.6	128"	88"	85.8
	74"	65.6		88"	90.0
144"	80"	60.7	136"	74"	90.0
	88"	55.2		80"	83.6
	36"	90.0	144"	88"	76.0
	42"	86.9		66"	90.0
	48"	76.0		74"	80.6
	54"	67.6		80"	74.6
	59 3/4"	61.1	150"	88"	67.8
	66"	55.3		59 3/4"	90.0
74"	49.3	66"		82.4	
80"	45.6	74"		73.5	
88"	41.5	80"		68.0	
24"	90.0	88"		61.8	
30"	86.4	1. THE LOADS IN THIS TABLE ARE APPLICABLE FOR SINGLE & MULTI SPAN SYSTEMS. 2. REGARDLESS OF LOAD WIDTHS SPECIFIED IN THIS TABLE, THE D.L.O. OF FIXED GLASS PANELS MAY NOT EXCEED 57 1/2" IN THEIR SHORT SIDE DIMENSION NOR 93 1/2" IN THEIR LONG SIDE DIMENSION.			
36"	72.0				
42"	61.7				
48"	54.0				
54"	48.0				
59 3/4"	43.4				
66"	39.3				
74"	35.0				
80"	32.4				
88"	29.5				

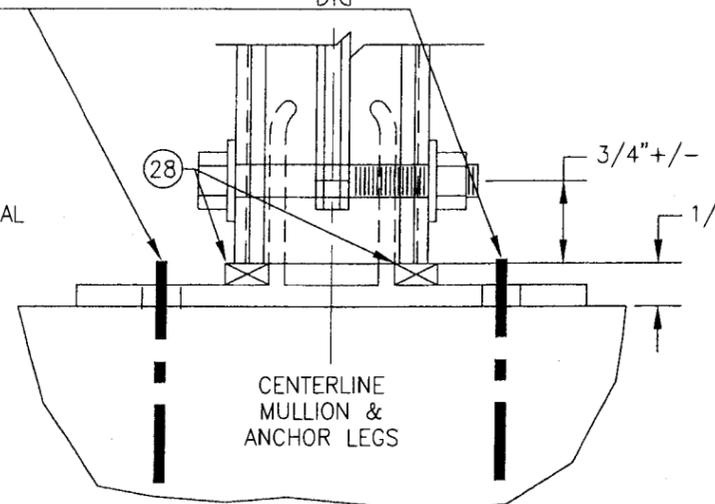
- ◆ = F OR TF-ANCHOR
- = M OR TM-ANCHOR
- = DEAD LOAD ANCHOR
- ▲ = WIND LOAD ANCHOR
- ⊙ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **05-1212-08**
Expiration Date **06/27/07**

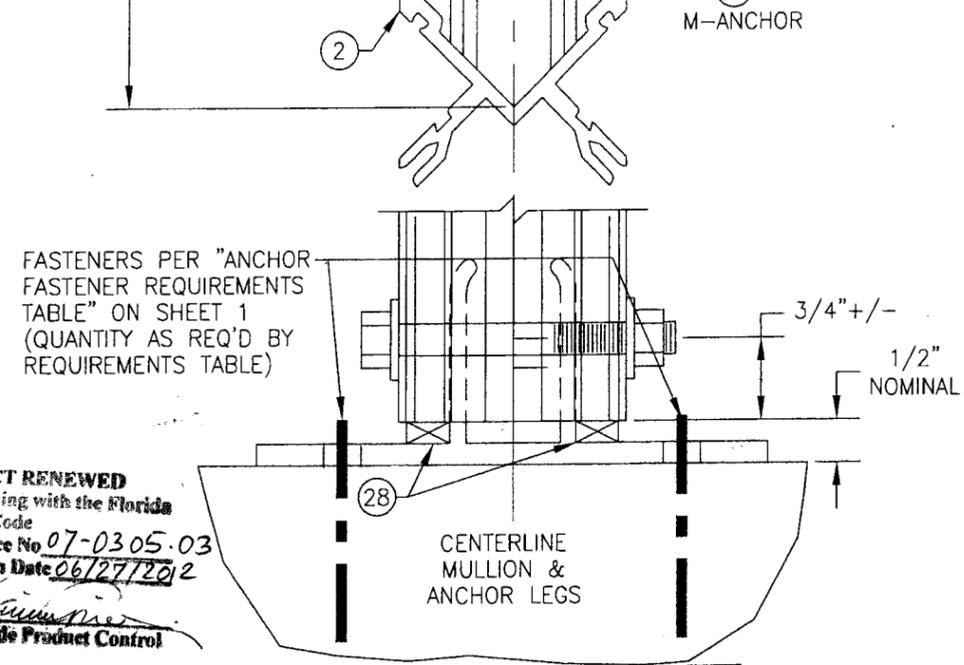
By *[Signature]*
Miami Dade Product Control Division



"F-ANCHOR" DETAIL
 (TYP. AT SIDE JAMB MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY.



"M-ANCHOR" DETAIL
 (TYP. AT INTERMEDIATE MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.



"M-ANCHOR" DETAIL
 (TYP. AT CORNER MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.

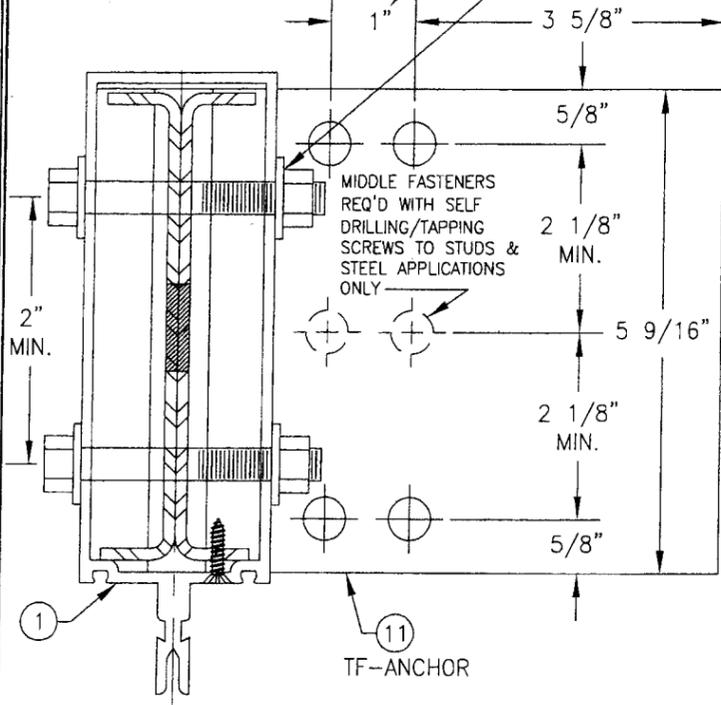
PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 07-0305.03
 Expiration Date 06/27/2012
 By *[Signature]*
 Miami-Dade Product Control Division

PRODUCT REVISED
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 Expiration Date 06/23/07
 By *[Signature]*
 Miami-Dade Product Control Division

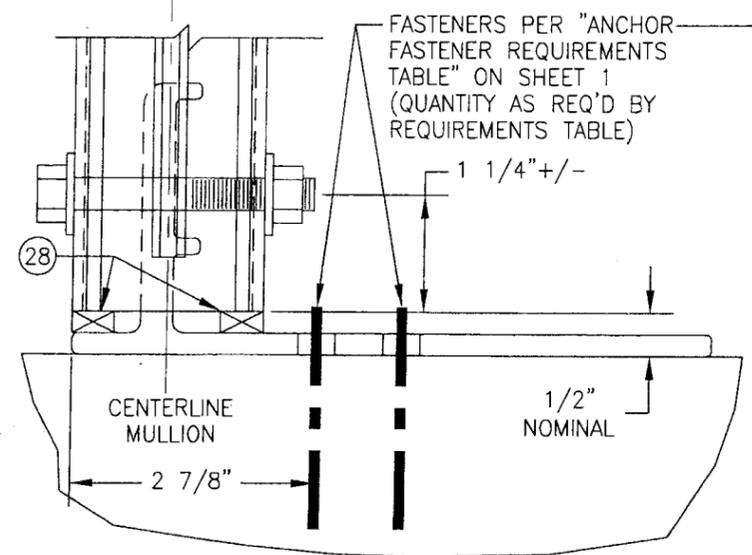
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/15/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 8" DEEP SERIES 5600 LARGE MISSILE IMPACT CURTAIN WALL SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER EFCO CORPORATION	
8895 N. MILITARY TRAIL, SUITE C-204 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 SEP 07 2006	REV. B	DRAWING NO. 1088	SHEET NO. 6 OF 9

USE 1 5/8" SPACING WITH ADHESIVE ANCHOR APPLICATIONS TO PROTECT AGAINST CONCRETE CRACKING.

TWO(2) 3/8" STL. THROUGH BOLTS THROUGH INTERSECTING MEMBER SHEAR BLOCKS, MULLION & TM ANCHOR (REQUIRED ONLY WHEN MULLION SUPPORTS A DOOR ON EITHER SIDE)

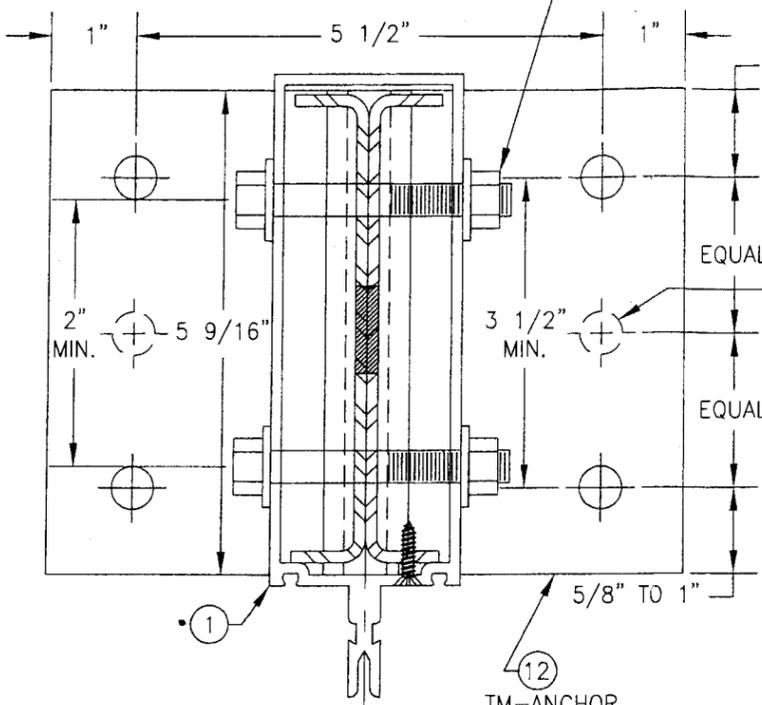


MIDDLE FASTENERS REQ'D WITH SELF DRILLING/TAPPING SCREWS TO STUDS & STEEL APPLICATIONS ONLY

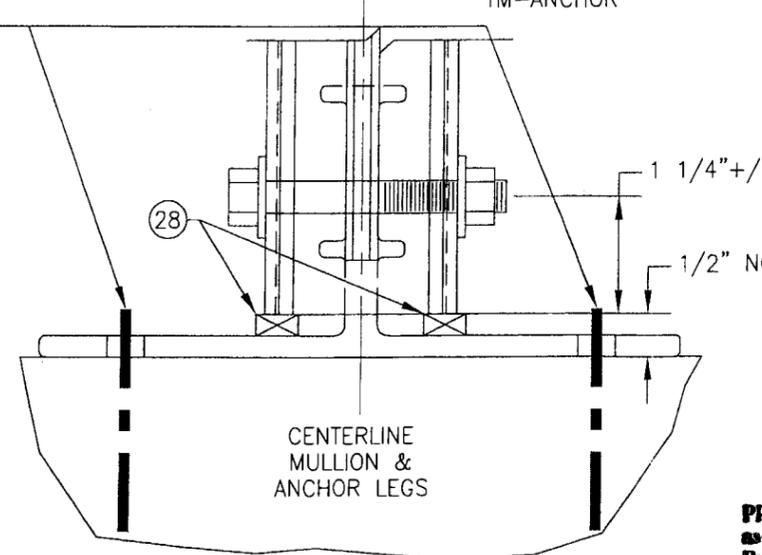


"TF-ANCHOR" DETAIL

(TYP. AT SIDE JAMB MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY.

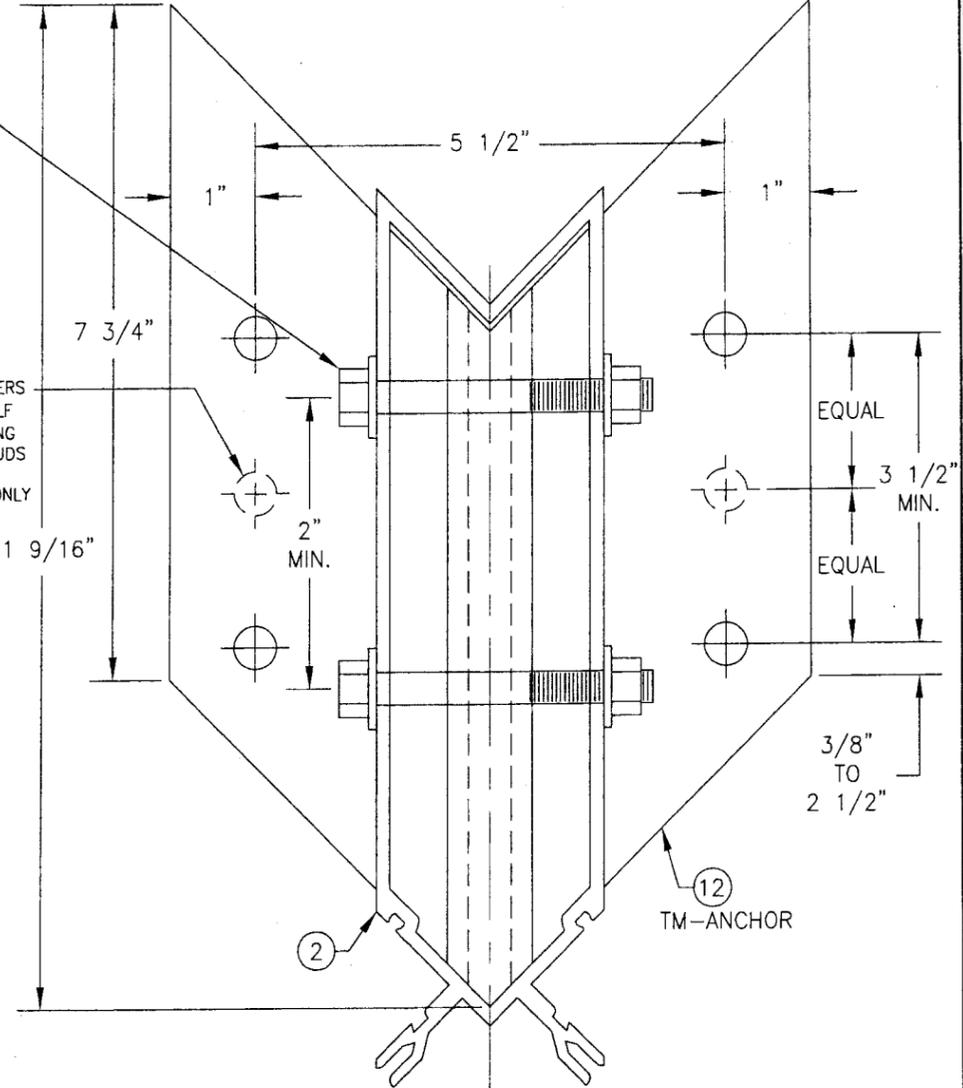


MIDDLE FASTENERS REQ'D WITH SELF DRILLING/TAPPING SCREWS TO STUDS & STEEL APPLICATIONS ONLY



"TM-ANCHOR" DETAIL

(TYP. AT INTERMEDIATE MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.



"TM-ANCHOR" DETAIL

NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.
(TYP. AT CORNER MULLIONS)

FASTENERS PER "ANCHOR FASTENER REQUIREMENTS TABLE" ON SHEET 1 (QUANTITY AS REQ'D BY REQUIREMENTS TABLE)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. **07-0305.03**
Expiration Date **06/27/2012**

By *[Signature]*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **05-1212.08**
Expiration Date **06/23/07**

By *[Signature]*
Miami Dade Product Control Division

DRAWN BY: W.W.S. CHECKED BY: W.W.S.
PLOT: 1=2 DATE: 01/15/02

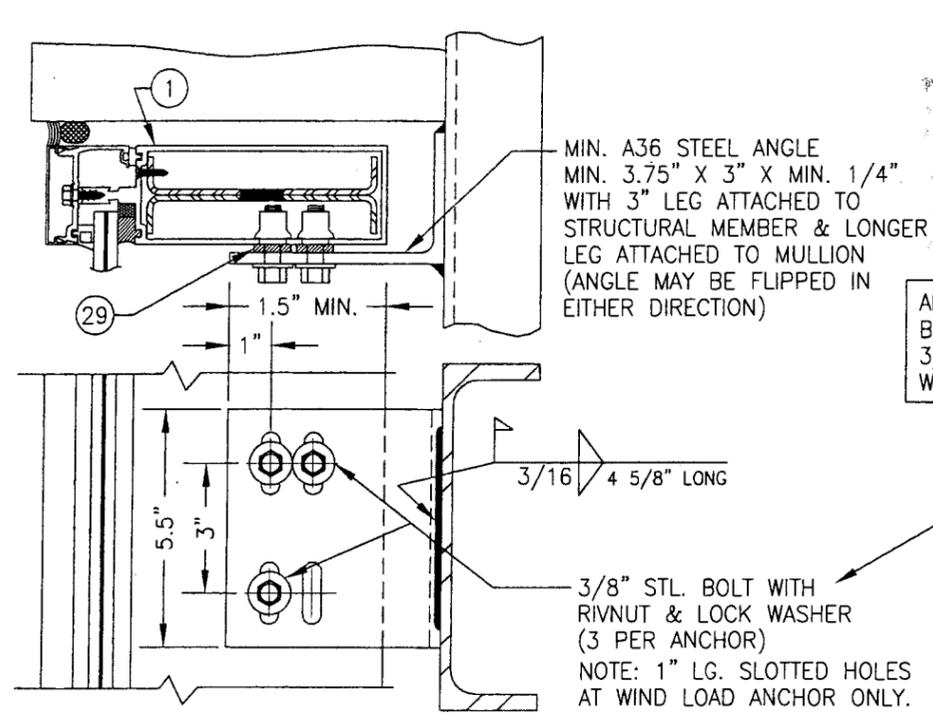
NO.	REVISION DESCRIPTION	DATE

8" DEEP SERIES 5600 LARGE MISSILE IMPACT CURTAIN WALL SYSTEM
MANUFACTURER
EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

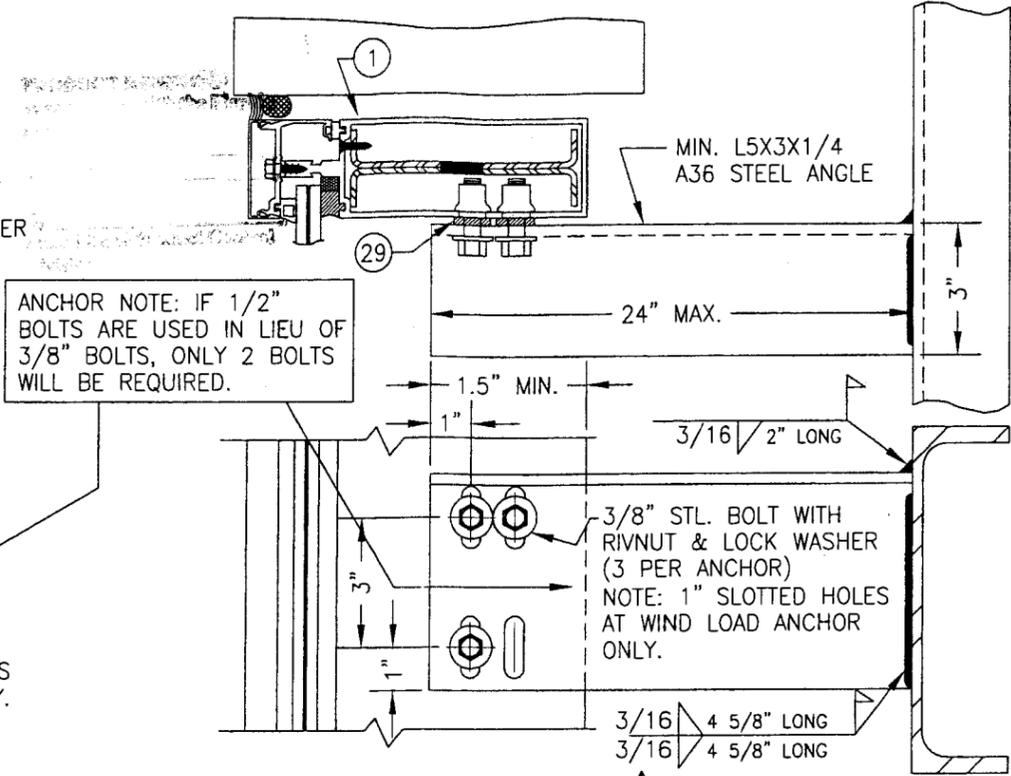
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4803

CERTIFICATION
[Signature]
WARREN W. SCHAEFER, P.E.
P.E. NO. 44133

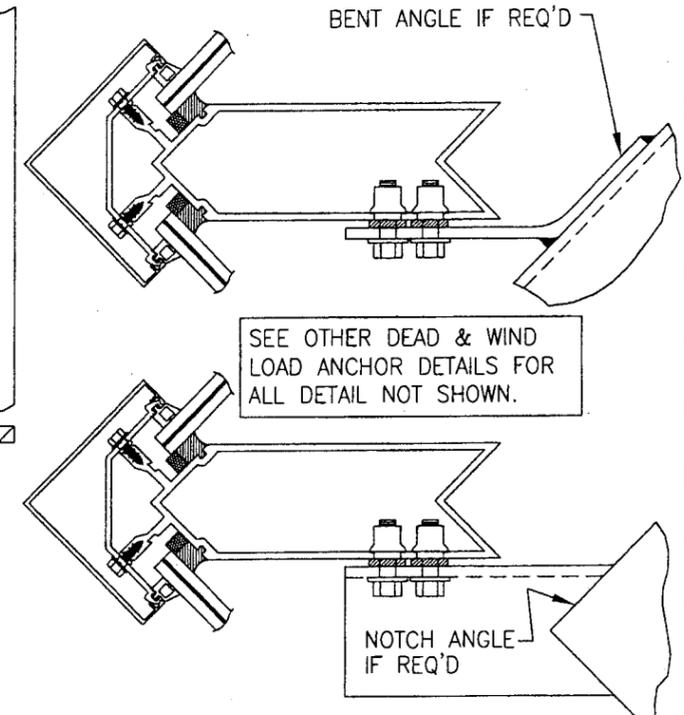
DRAWING NO. **1088** REV. **B**
SHEET NO. **7** OF **9**



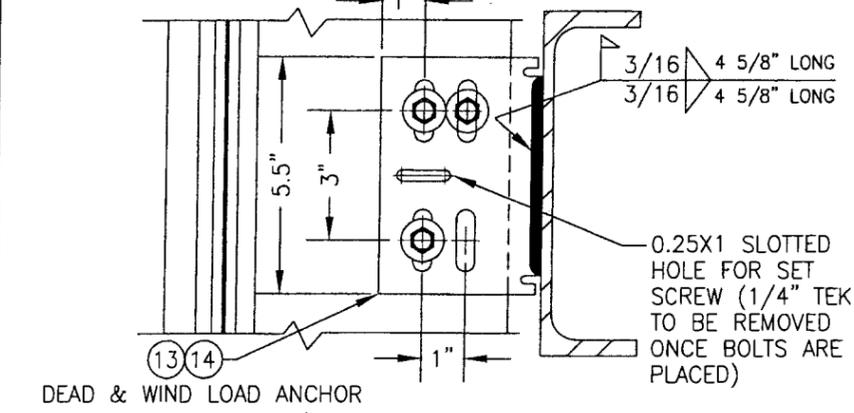
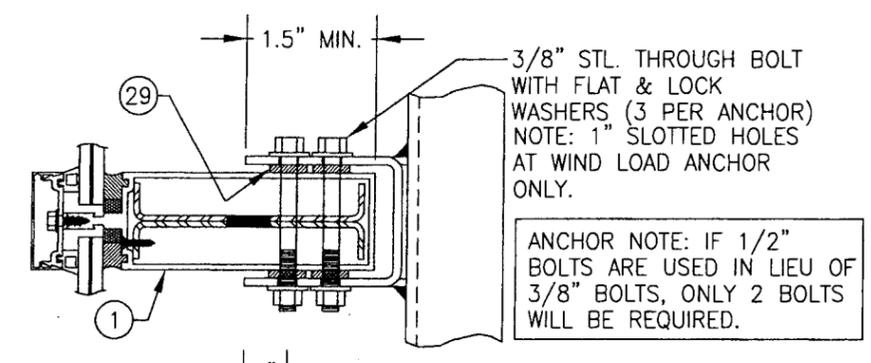
DEAD LOAD & WIND LOAD ANCHOR DETAIL
 (TYP. AT JAMB MULLIONS)
 (WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)



EXTENDED DEAD LOAD & WIND LOAD ANCHOR DETAIL
 (TYP. AT JAMB MULLIONS) (WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)

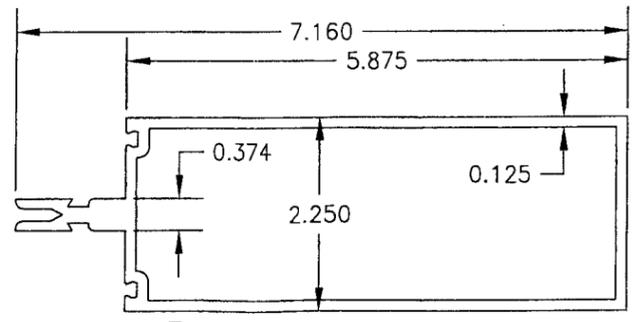


DEAD LOAD & WIND LOAD ANCHOR DETAIL
 (TYP. AT CORNER MULLS)

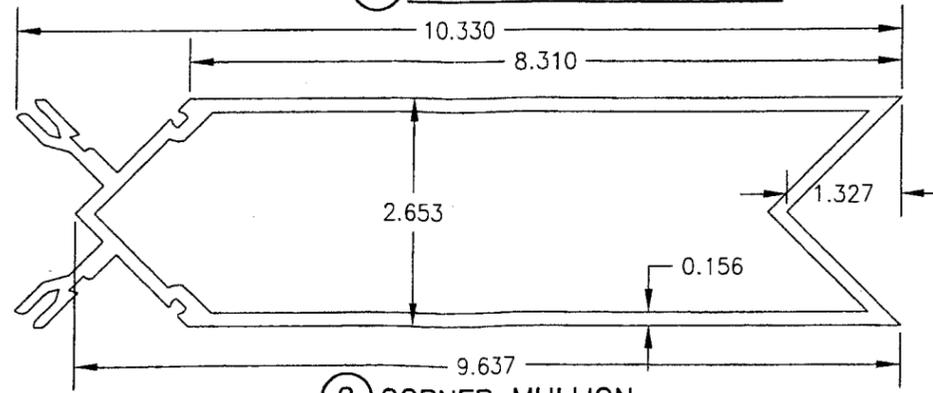


DEAD LOAD & WIND LOAD ANCHOR DETAIL
 (TYP. AT INTERMEDIATE MULLIONS)
 (WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)

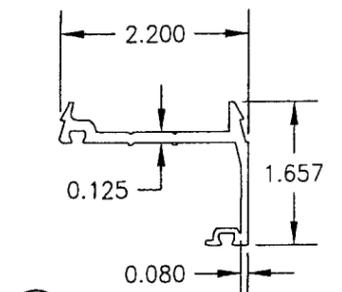
NOTE: DEAD LOAD & WIND LOAD ANCHOR DETAILS ARE SAME AT CORNER MULLION.



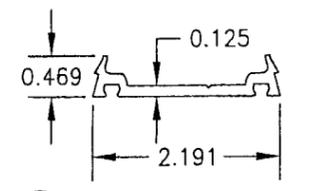
1 JAMB & MIDDLE MULLION



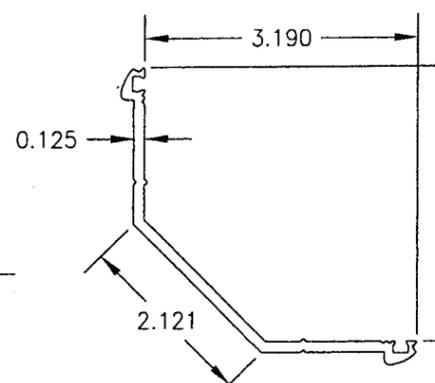
2 CORNER MULLION



3 JAMB PRESSURE PLATE



4 MID MULLION PRESSURE PLATE



5 CORNER MULL PRESSURE PLATE

PRODUCT RENEWED
 as complying with the Florida
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 Expiration Date 06/27/2012

By *[Signature]*
 Miami Dade Product Control
 Division

PRODUCT REVIEWED
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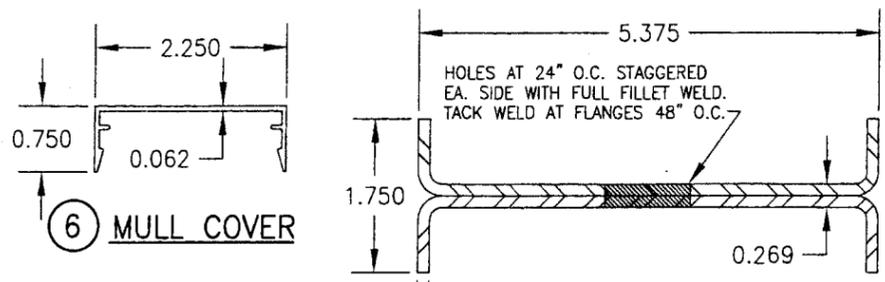
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NO.	REVISION DESCRIPTION	DATE	BY

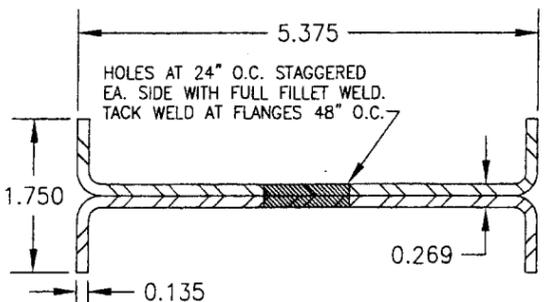
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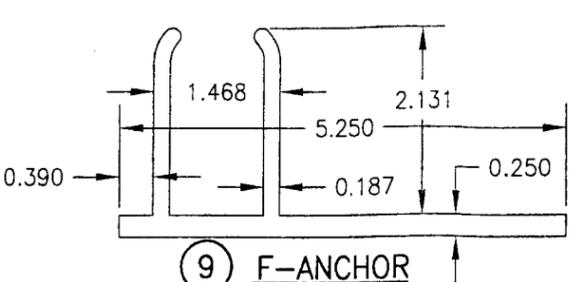
CERTIFICATION
 W. W. SCHAEFER, P.E.
 P.E. NO. 44135



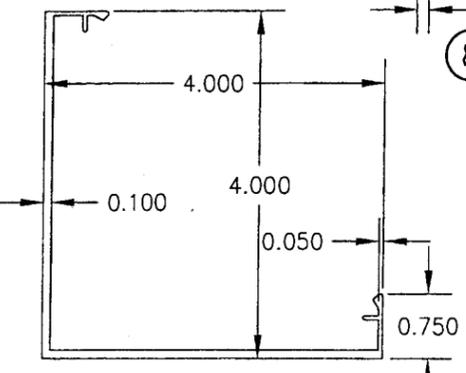
6 MULL COVER



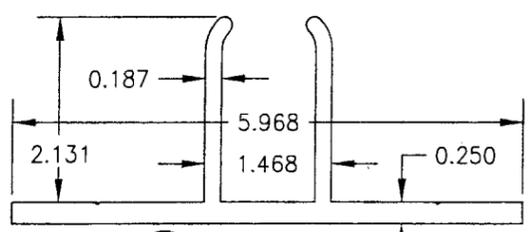
8 MULLION REINFORCEMENT



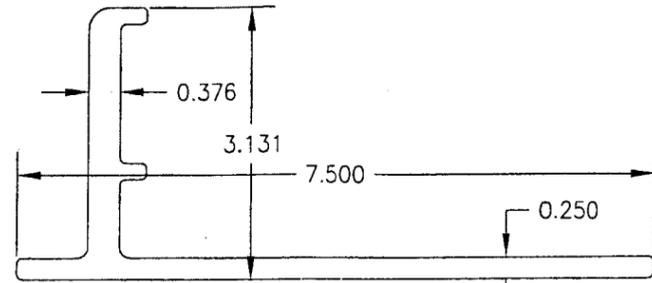
9 F-ANCHOR



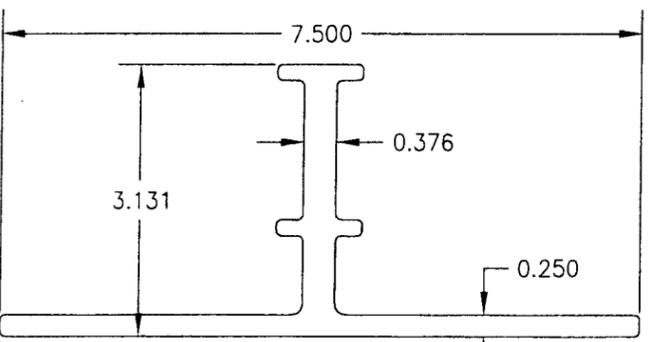
7 CORNER MULL COVER



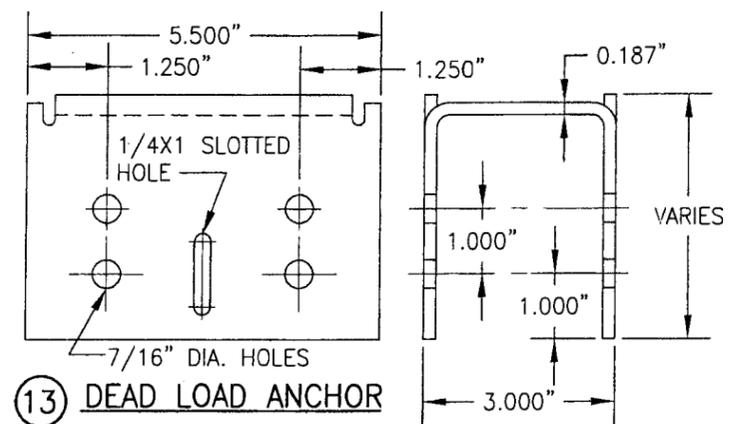
10 M-ANCHOR



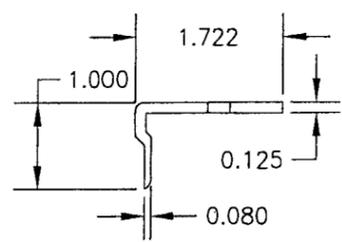
11 TF-ANCHOR



12 TM-ANCHOR

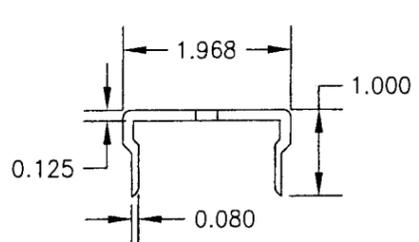


13 DEAD LOAD ANCHOR



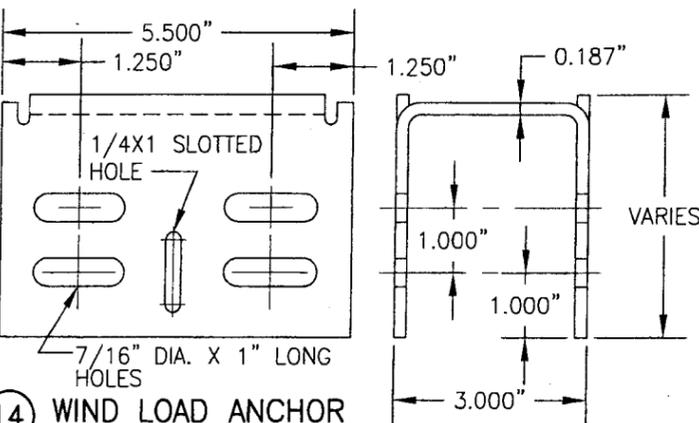
17 HEAD/SILL SHEAR BLOCK

LENGTH = 5.375" @ MID & JAMB MULLS & 8.563" @ CORNER MULLS (ENDS ARE MITERED 45 DEG. AT CORNER MULLIONS)

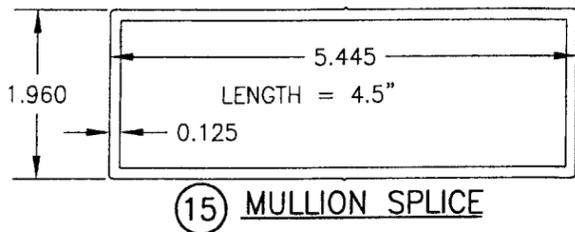


19/20 MID MULL SHEAR BLOCK & DOOR JAMB MULL SHEAR BLOCK ANCHOR

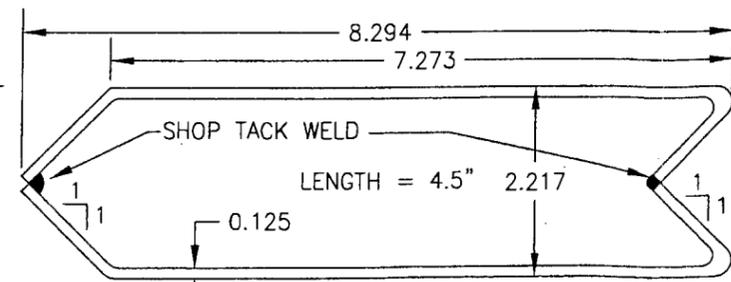
LENGTH = 5.375" @ MID & JAMB MULLS & 8.563" @ CORNER MULLS (ENDS ARE MITERED 45 DEG. AT CORNER MULLIONS)



14 WIND LOAD ANCHOR



15 MULLION SPLICE



16 CORNER MULLION SPLICE

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	6095	JAMB & MIDDLE MULLION	EFCO; 6063-T6 ALUMINUM
2	6217	CORNER MULLION	EFCO; 6063-T6 ALUMINUM
3	5977	JAMB PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
4	5959	MIDDLE MULLION PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
5	5904	CORNER MULLION PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
6	5882	MULLION COVER	EFCO; 6063-T6 ALUMINUM
7	5905	CORNER MULLION COVER	EFCO; 6063-T6 ALUMINUM
8	SR6095A	DOUBLE CHANNEL MULL REINF.	EFCO; A36 MIN. STEEL
9	5878	F-ANCHOR	EFCO; 6063-T6 ALUMINUM
10	4026	M-ANCHOR	EFCO; 6063-T6 ALUMINUM
11	3709	TF ANCHOR	EFCO; 6063-T6 ALUMINUM
12	3708	TM ANCHOR	EFCO; 6063-T6 ALUMINUM
13	-	DEAD LOAD ANCHOR	EFCO; A36 MIN. STEEL
14	-	WIND LOAD ANCHOR	EFCO; A36 MIN. STEEL
15	5099	MULLION SPLICE	EFCO; 6063-T6 ALUMINUM
16	KY71	CORNER MULLION SPLICE	EFCO; A36 MIN. STEEL
17	KY51/KY52 6333	HEAD/SILL SHEAR BLOCK	EFCO; 6063-T6 ALUMINUM
18	KZ64/KZ65 6333	HEAD/SILL SHEAR BLOCK (CORNER MULL)	EFCO; 6063-T6 ALUMINUM
19	KW04/5879	MID MULL & JAMB MULL SHEAR BLOCK	EFCO; 6063-T6 ALUMINUM
20	KZ66/5879	MID MULL SHEAR BLOCK (CORNER MULL)	EFCO; 6063-T6 ALUMINUM
SEALS, SEALANTS & SHIMS			
21	WEP7	3/16" SILICONE SPACER	EPG
22A	W163	3/8" PRESET PEROXIDE CURE EPDM	EPG
22B	W162	7/16" PRESET PEROXIDE CURE EPDM	EPG
23	WM88	5/16" X 7/16" V2100	NORTON
24	HN16	0.187" X 0.812" X 4" GLAZING BLOCK	EPG
25	WNC8	1/8" PRESET 70 DUROMETER EPDM	EPG
26	WM87	5/16" X 1/4" V2100	NORTON
27	HN91	0.187" X 1.0" X 4" GLAZING BLOCK	EPG
28	HS01	POLYSTYRENE SHIM	FALMOUTH PLASTIC
29	HS01	POLYSTYRENE SHIM	FALMOUTH PLASTIC
MISCELLANEOUS FASTENERS			
30	STCO	13-16 X 5/8" HWH S.S. SMS SCREW	6" O.C.
31	SPCO	NO. 8 X 3/4 PL FH SMS SCREW	3/MULL REINFORCEMENT SECTION

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Miami Dade Product Control

PRODUCT REVISED
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Expiration Date 06/27/10
By: *[Signature]*
Miami Dade Product Control

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
DATE: 01/15/02	
NO.	REVISION DESCRIPTION
1	2
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MANUFACTURER EFCO CORPORATION	
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 <i>[Signature]</i>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1088	REV. B
SHEET NO. 9	OF 9