



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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

Andersen Corporation
100 Fourth Avenue North
Bayport, MN 55003-1096

SCOPE:

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

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

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

DESCRIPTION: Series "Narrow" Extruded Aluminum Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. M07-02, titled "Narrow Aluminum Mullion System", sheets 1 through 6 of 6, dated 06/21/07, with revision C dated 04/27/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA# 10-0622.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
7/23/12

NOA No. 12-0501.08
Expiration Date: May 02, 2017
Approval Date: August 02, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **M07-02**, titled "Narrow Aluminum Mullion System", sheets 1 through 6 of 6, dated 06/21/07, with revision C dated 04/27/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

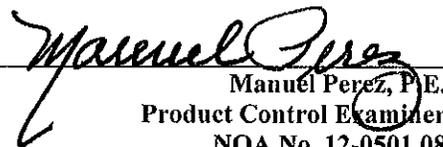
1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of two-wide Fiberglass/Wood Fixed Windows Mullied jamb-to-jamb with a narrow aluminum mullion, prepared by Architectural Testing, Inc., Test Report No. **ATI-76003.01-201-18**, dated 01/08/08, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA No.08-0326.02)
2. Test reports on: 1) Air Infiltration Test, per PA 202-94
2) Uniform Static Air Pressure Test, Loading per PA 202-94
3) Water Resistance Test, per PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with installation diagram of two flexi frame windows mullied together using a narrow steel mullion, prepared by Architectural Testing Inc., Test Report No. **ATI-02-31431.01**, dated 05/25/99, signed and sealed by Allen N. Reeves, P.E.
(Submitted under previous NOA No.99-0811.05)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per PA 202-94
along with installation diagram of windows prepared by Architectural Testing Inc., Test Report No. **ATI-16720-N**, dated 11/30/95, signed and sealed by Allen N. Reeves, P.E.
(Submitted under previous NOA No.99-0811.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 06/07/10, prepared by Al-Farooq Corporation, signed, sealed by Javad Ahmad, P.E.
(Submitted under previous NOA# 08-1021.04)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0501.08

Expiration Date: May 02, 2017
Approval Date: August 02, 2012

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

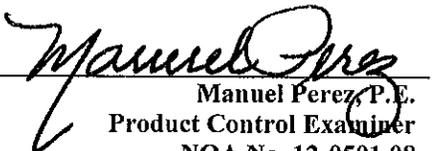
1. None.

F. STATEMENTS

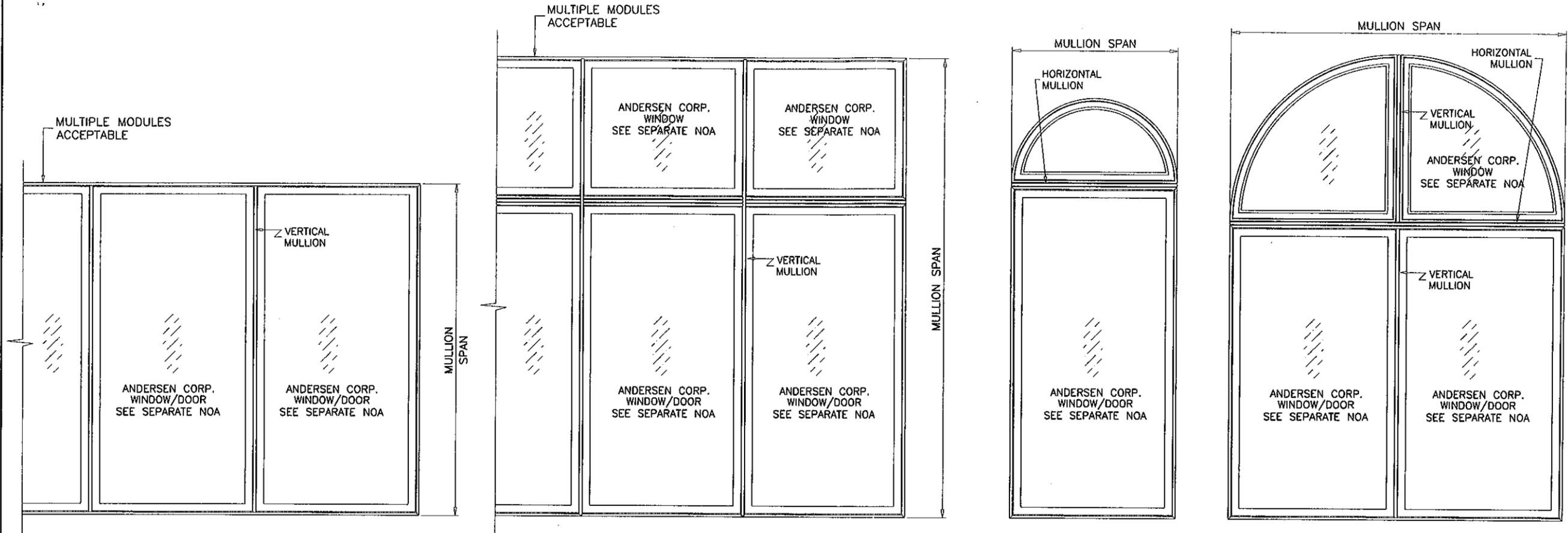
1. Statement letter of conformance, complying with the FBC 2010, and of no financial interest, dated April 27, 2012, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No. **ATI-76003.01-201-18**, issued by Architectural Testing, Inc., dated 01/08/08, signed and sealed by Joseph A. Reed, P.E. *(Submitted under previous NOA No. 08-0326.02)*
3. Laboratory compliance letter for Test Report No. **ATI-02-31431.01**, issued by Architectural Testing, Inc., dated 05/25/99, signed and sealed by Allen N. Reeves, P.E. *(Submitted under previous NOA No. 99-0811.05)*
4. Laboratory compliance letter for Test Report No. **ATI-16720-N**, issued by Architectural Testing, Inc., dated 11/30/95, signed and sealed by Allen N. Reeves, P.E. *(Submitted under previous NOA No. 99-0811.05)*

G. OTHERS

1. Notice of Acceptance No. **10-0622.03**, issued to Andersen Corporation for their Series "Narrow Aluminum Mullion - L.M.I.", approved on 09/29/10 and expiring on 05/02/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0501.08

Expiration Date: May 02, 2017
Approval Date: August 02, 2012



TYPICAL MULLION ARRANGEMENT

**NARROW ALUMINUM MULLION SYSTEM
WINDOW FRAME MEMBERS INCLUDED IN PROPERTIES**

DESIGN LOAD RATING FOR THIS MULLION TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO MULLIONS COMBINATIONS WITH FRAME MEMBERS OF ANDERSEN CORPORATION WINDOW AND DOORS IN ANY COMBINATIONS SEE SHEET 2 FOR WINDOW & DOOR FRAME MEMBER DETAILS.

SEE SEPARATE NOA FOR WINDOW/DOOR ANCHORS AND DESIGN LOAD CAPACITY.

LOWEST VALUE RESULTING FROM MULLION, WINDOW OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

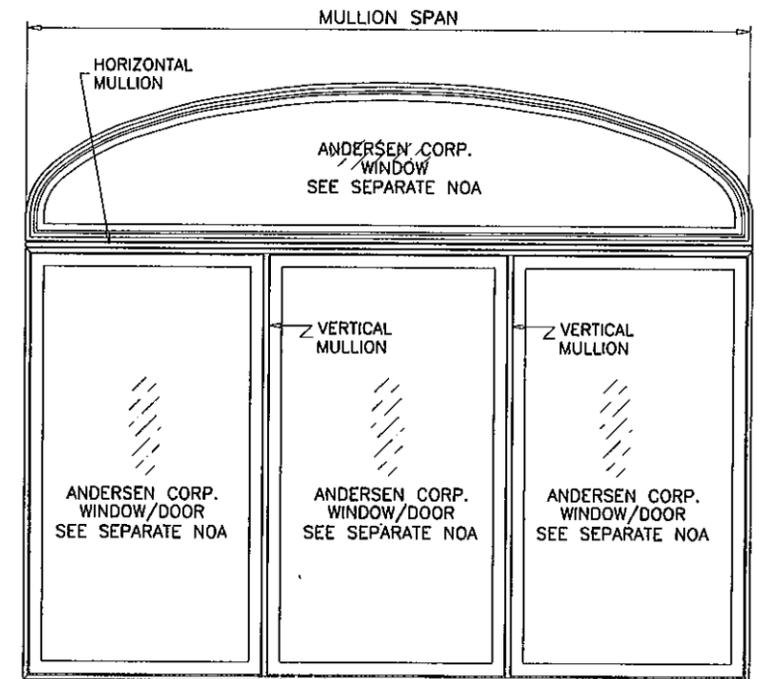
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT, AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
complying with the Florida Building Code
Acceptance No 12-0501.08
Expiration Date MAY 2, 2017
By *Manuel Cruz*
Miami Dade Product Control

MAY 01 2012

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AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33174
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ANDERSEN CORPORATION
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AW

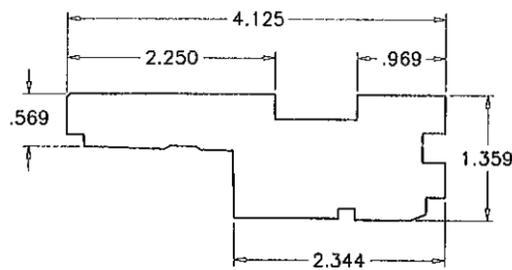
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B	08.31.10		NO CHANGE THIS SHEET
C	04.27.12		UPDATED TO 2010 FBC

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dr. by: HAMID
chk. by:

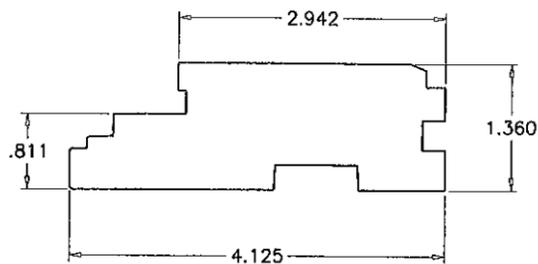
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M07-02

sheet 1 of 6

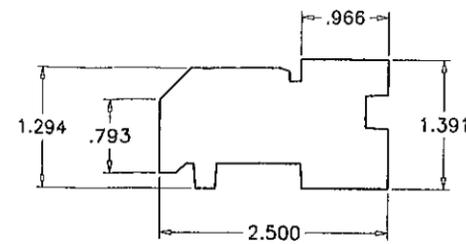


CASEMENT
FRAME HEAD/SILL
30835
WOOD

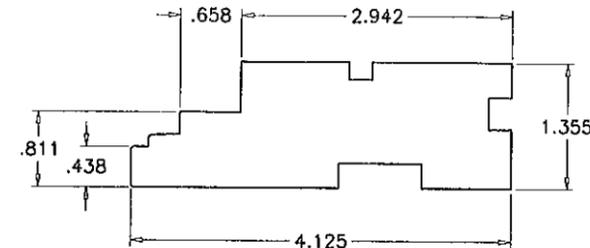
AWNING
FRAME JAMB
30836
WOOD



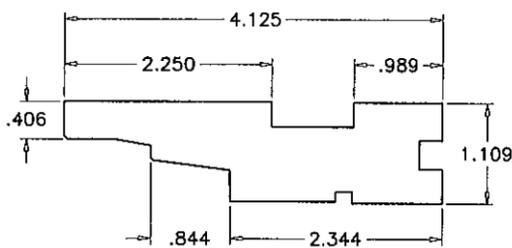
CASEMENT PICTURE
FRAME HEAD/SILL/JAMB
WOOD



FLEXIFRAME FIXED
FRAME HEAD/SILL/JAMB
WOOD



SPECIALITY DIRECT SET (CTC & CTQC)
FRAME SILL
27230
WOOD

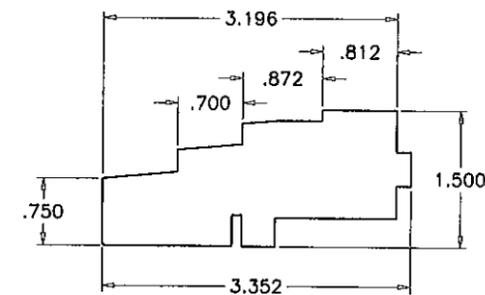


CASEMENT
FRAME JAMB
30838
WOOD

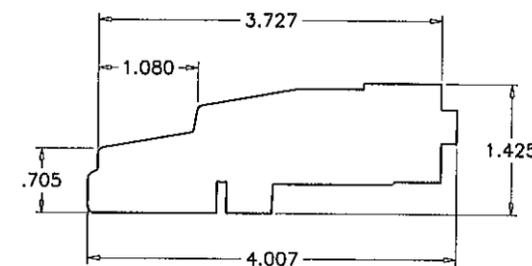
AWNING
FRAME HEAD/SILL
30838
WOOD



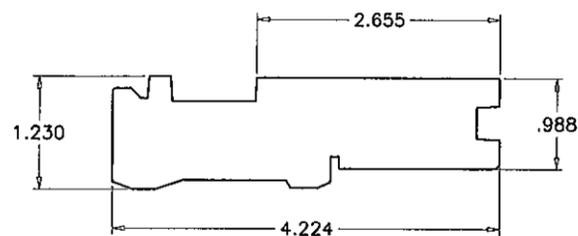
CASEMENT PICTURE (P)
FRAME HEAD/SILL/JAMB
30394
WOOD



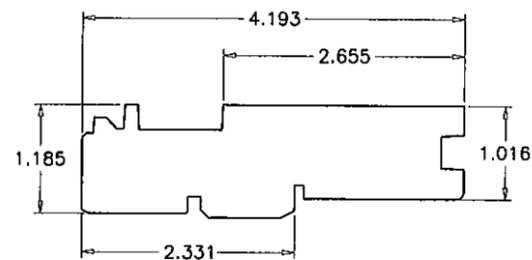
SPECIALITY DIRECT SET (CTN)
FRAME SILL
27122
WOOD



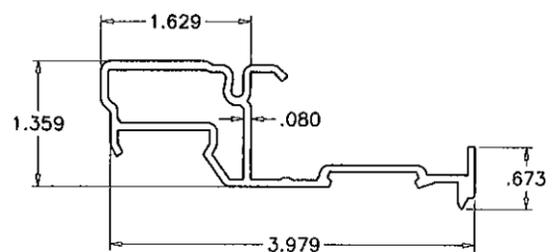
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FRAME SILL
53103
WOOD



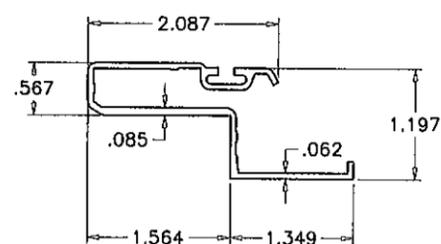
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



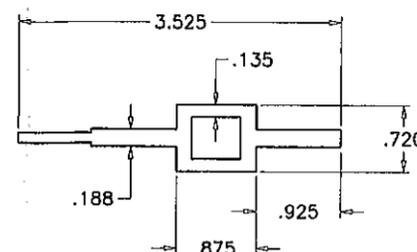
FWO
OUTSWING DOOR HEAD/JAMB (OPERATING/STATIONARY)
57019
WOOD



FWH
HINGED HEAD/JAMB COVER (OPERATING/STATIONARY)
52225
FIBERGLASS



FWO
OUTSWING HEAD/JAMB COVER (OPERATING/STATIONARY)
57031
FIBERGLASS



NARROW ALUM MULLION
6061-T6

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
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Acceptance No 12-0501.08
Expiration Date MAY 2, 2017
By *Manuel Perez*
Miami/Dade Product Control

MAY 01 2012

af c
AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33174
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MULLION\M07-02AC

NARROW ALUMINUM MULLION SYSTEM
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL. (800) 426-7691 FAX (-)
ANDERSEN

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B	08.31.10	NO CHANGE THIS SHEET
C	04.27.12	NO CHANGE THIS SHEET

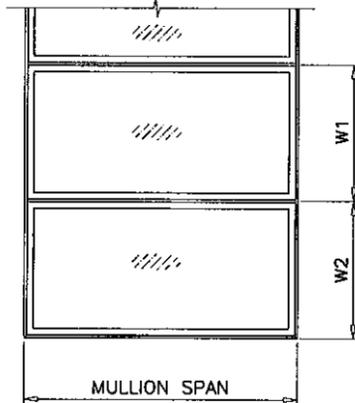
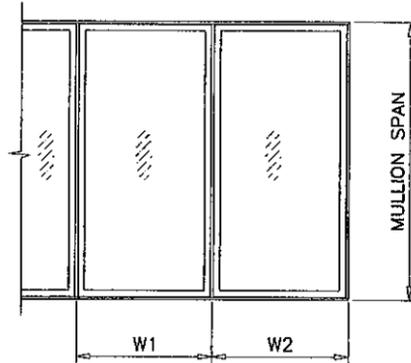
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dr. by: HAMID
chk. by:
drawing no.
M07-02
sheet 2 of 6

DESIGN LOAD CAPACITY - PSF
W/O INTERMEDIATE HORIZONTALS

WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	36"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		100.0	
33"		100.0	
36"		100.0	
39"		100.0	
42"		100.0	
45"		100.0	
48"	100.0		
12"	42"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		100.0	
33"		100.0	
36"		100.0	
39"		100.0	
42"		100.0	
45"		100.0	
48"	100.0		
12"	48"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		100.0	
33"		100.0	
36"		99.2	
39"		96.4	
42"		94.5	
12"		54"	100.0
15"	100.0		
18"	100.0		
21"	100.0		
24"	100.0		
27"	98.0		
30"	91.6		
33"	86.6		
36"	82.7		
12"	60"		100.0
15"			100.0
18"			100.0
21"		100.0	
24"		93.0	
27"		85.3	
30"		79.4	
33"	74.6		

DESIGN LOAD CAPACITY - PSF
W/O INTERMEDIATE HORIZONTALS

WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	66"	100.0	
15"		100.0	
18"		100.0	
21"		91.9	
24"		82.7	
27"		75.6	
30"		70.0	
12"	72"	100.0	
15"		100.0	
18"		84.8	
21"		73.4	
24"		64.9	
27"		58.4	
12"		78"	98.6
15"	79.3		
18"	66.5		
21"	57.4		
24"	50.7		
12"	84"		78.9
15"			63.4
18"		53.1	
21"		45.8	
24"		40.4	



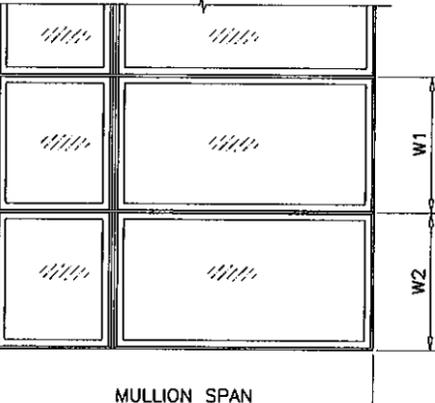
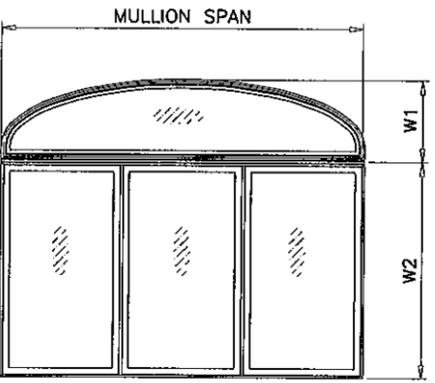
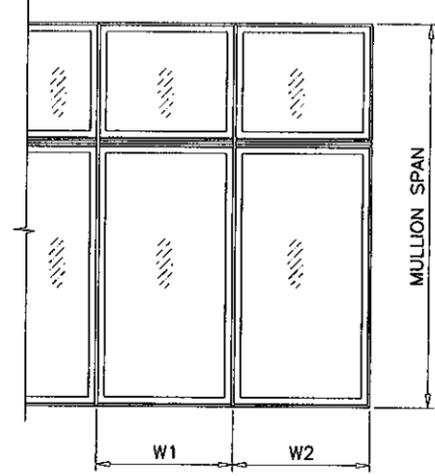
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DESIGN LOAD CAPACITY - PSF
WITH INTERMEDIATE HORIZONTALS

WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	36"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		100.0	
33"		100.0	
36"		100.0	
39"		100.0	
42"		100.0	
45"		100.0	
48"	100.0		
12"	42"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		100.0	
33"		100.0	
36"		100.0	
39"		95.1	
42"		88.3	
45"		82.4	
48"	77.3		
12"	48"	100.0	
15"		100.0	
18"		100.0	
21"		100.0	
24"		100.0	
27"		100.0	
30"		94.7	
33"		86.1	
36"		78.9	
39"		72.8	
42"		67.6	
12"		54"	100.0
15"	100.0		
18"	100.0		
21"	100.0		
24"	93.5		
27"	83.1		
30"	74.8		
33"	68.0		
36"	62.3		
12"	60"		100.0
15"			100.0
18"			93.2
21"		79.9	
24"		69.9	
27"		62.2	
30"		55.9	
33"	50.9		

DESIGN LOAD CAPACITY - PSF
WITH INTERMEDIATE HORIZONTALS

WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	66"	100.0	
15"		84.1	
18"		70.0	
21"		60.0	
24"		52.5	
27"		46.7	
30"		42.0	
12"	72"	80.9	
15"		64.7	
18"		54.0	
21"		46.2	
24"		40.5	
27"		36.0	
12"		78"	63.7
15"	50.9		
18"	42.4		
21"	36.4		
24"	31.8		
12"	84"		51.0
15"			40.8
18"		34.0	
21"		29.1	
24"		25.5	



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Engr: JAVAD AHMAD
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NARROW ALUMINUM MULLION SYSTEM

revisions:

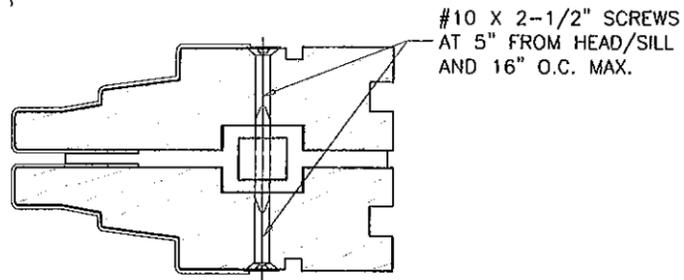
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B	06.31.10	NO CHANGE THIS SHEET
C	04.27.12	NO CHANGE THIS SHEET

date: 06-21-07
scale: -
dr. by: HAMID
chk. by:

drawing no.
M07-02

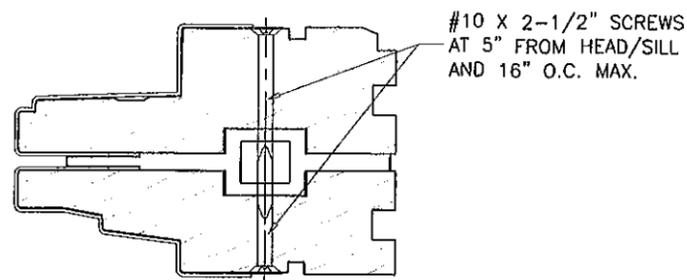
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MULLION M07-02AC

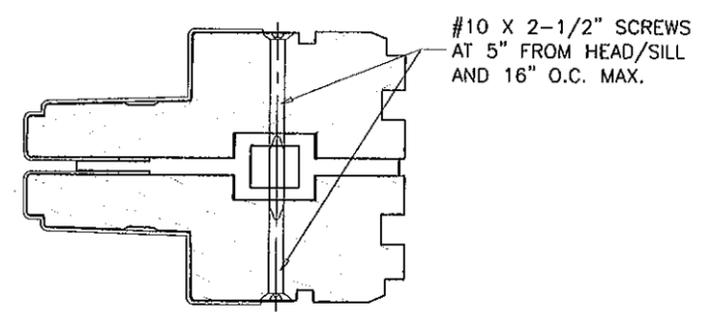


CASEMENT TO CASEMENT
VERTICAL JOIN

AWNING TO AWNING
HORIZONTAL JOIN

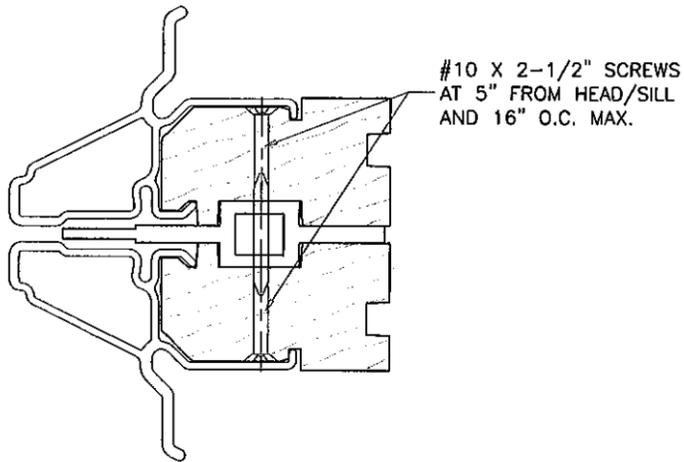


CASEMENT TO AWNING
VERTICAL OR HORIZONTAL JOIN

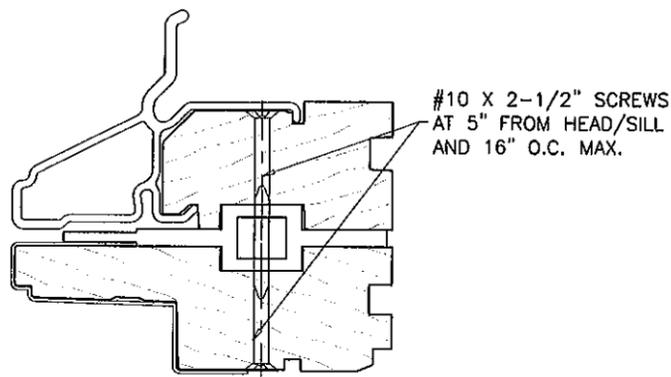


CASEMENT TO CASEMENT
HORIZONTAL JOIN

AWNING TO AWNING
VERTICAL JOIN

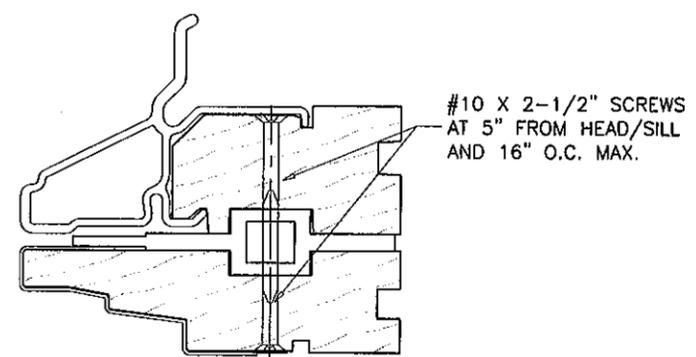


FLEXIFRAME TO FLEXIFRAME
VERTICAL OR HORIZONTAL JOIN



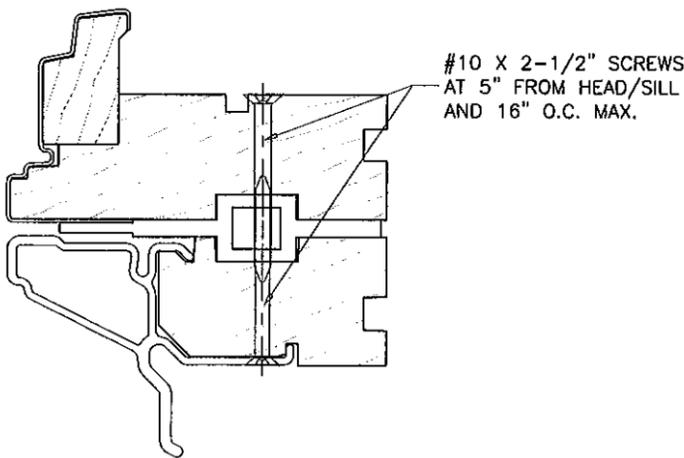
CASEMENT TO FLEXIFRAME
HORIZONTAL JOIN

AWNING TO FLEXIFRAME
VERTICAL JOIN

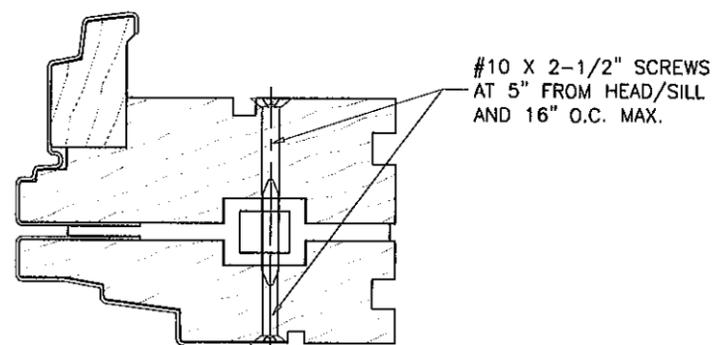


CASEMENT TO FLEXIFRAME
VERTICAL JOIN

AWNING TO FLEXIFRAME
HORIZONTAL JOIN



FLEXIFRAME TO CIRCLE TOP/QUARTER
VERTICAL OR HORIZONTAL JOIN



CIRCLE TOP TO AWNING
HORIZONTAL JOIN

af c
AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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NARROW ALUMINUM MULLION SYSTEM
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
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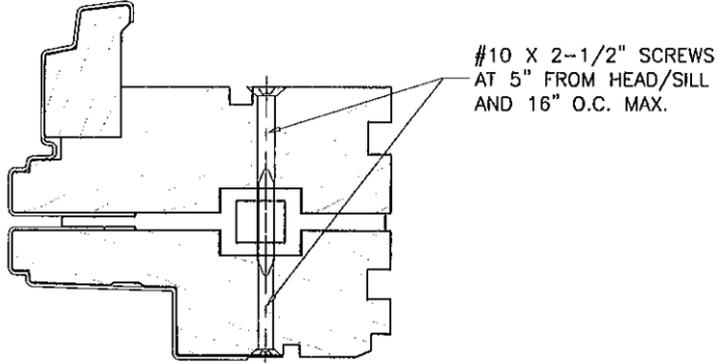
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B	08.31.10	NO CHANGE THIS SHEET
C	04.27.12	NO CHANGE THIS SHEET

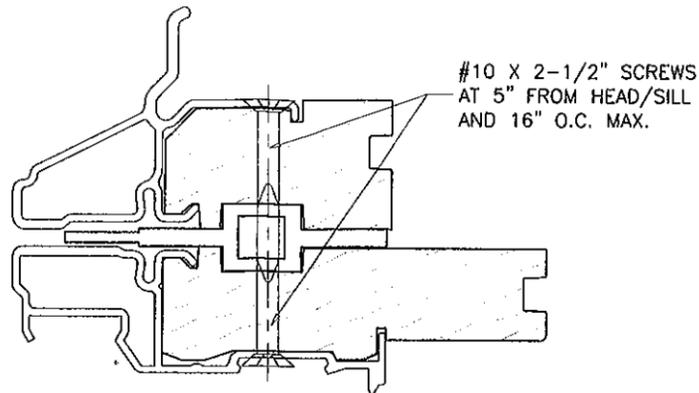
Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
1 MAY 01 2012

PRODUCT REVISED
as complying with the Florida
By: Eng Code
Acceptance No 12-0501-08
Expiration Date May 2, 2017
By: *Manuel Perez*
Miami Dade Product Control

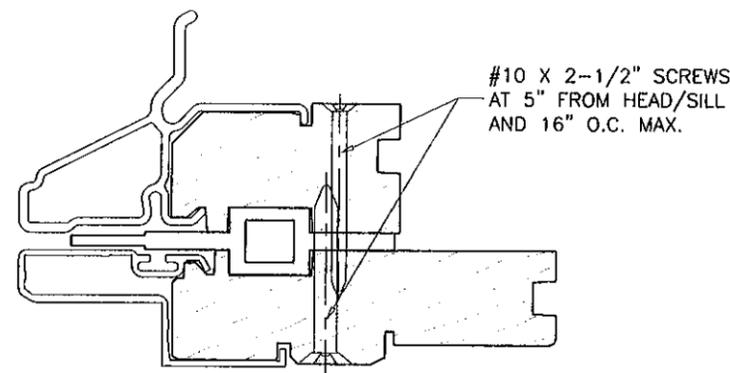
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no.
M07-02
sheet 4 of 6



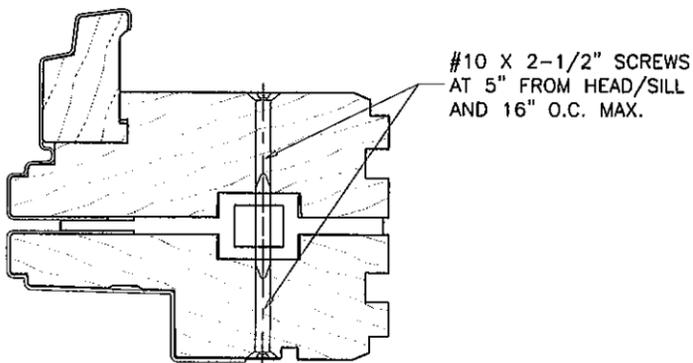
CIRCLE TOP TO CASEMENT
HORIZONTAL JOIN



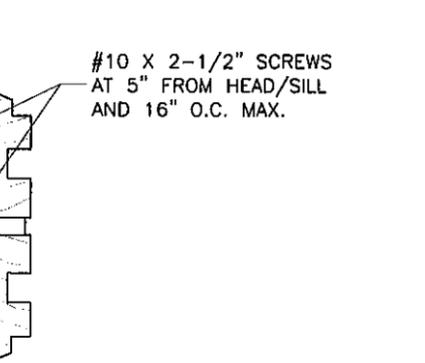
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



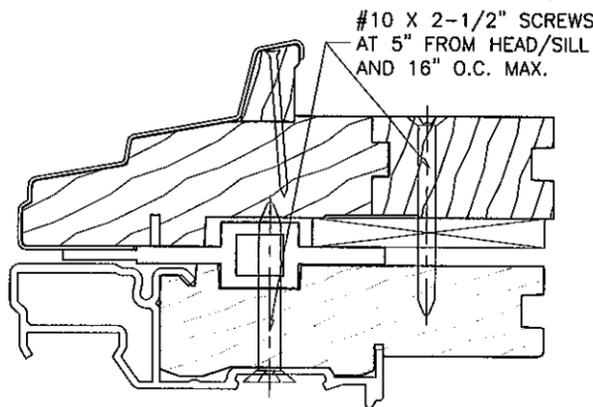
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



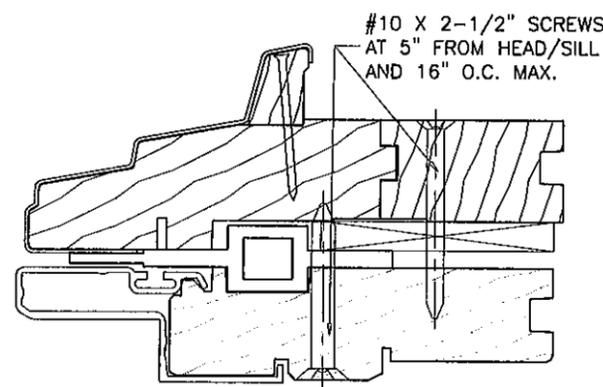
CASMT PICTURE WDW. TO AWNING
VERTICAL JOIN



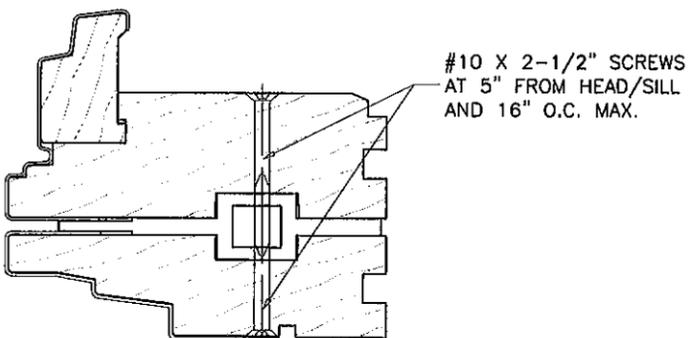
CASMT PICTURE WDW. TO CASEMENT
HORIZONTAL JOIN



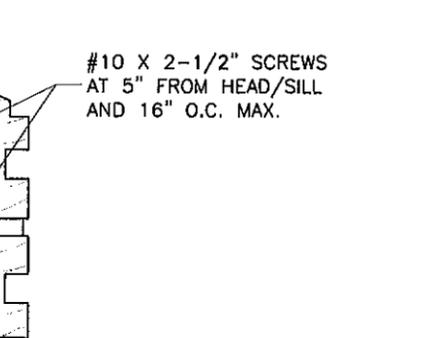
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



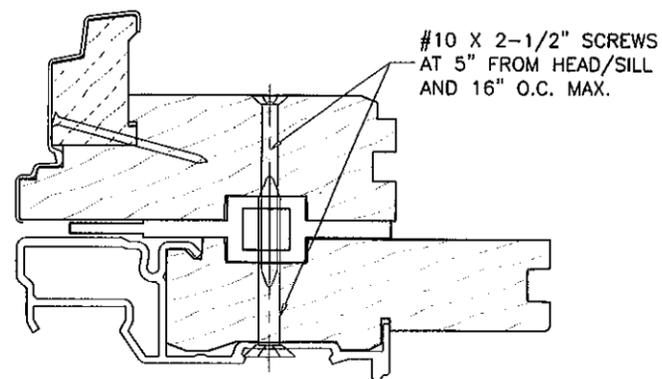
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



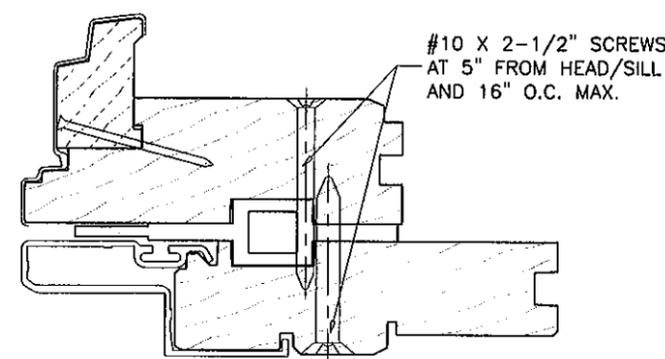
CASMT PICTURE WDW. TO AWNING
HORIZONTAL JOIN



CASMT PICTURE WDW. TO CASEMENT
VERTICAL JOIN



PSCA PICTURE WDW TO FWH DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWO DOOR
HORIZONTAL JOIN

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By: *Manuel Perez*
Miami Trade Product Control

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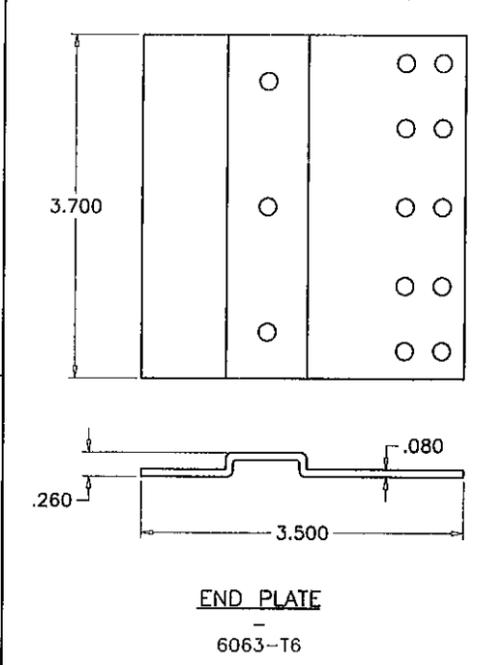
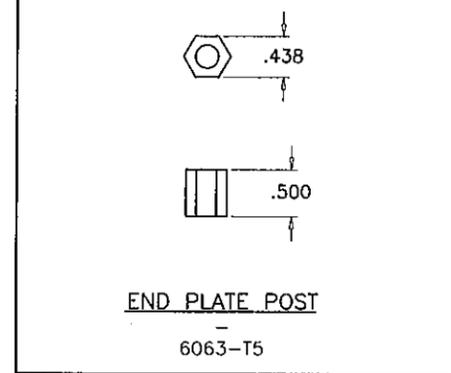
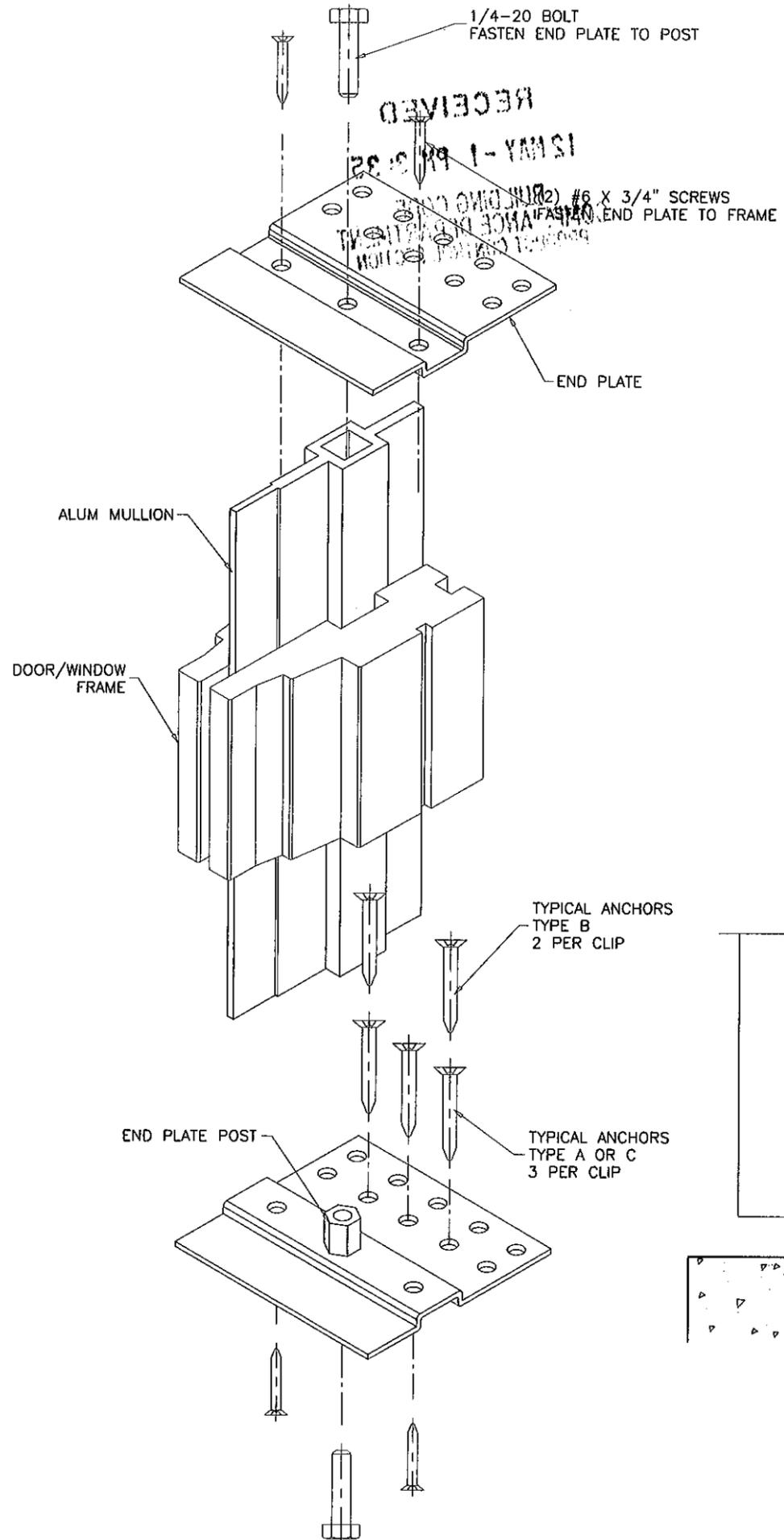
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date: 06-21-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M07-02
sheet 5 of 6



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- **#12 SMS OR WOOD SCREWS** (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD

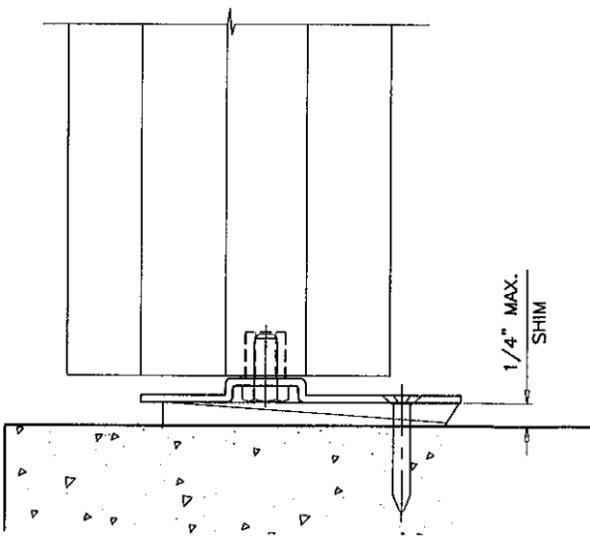
TYPE 'B'- **1/4" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-3/8" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C'- **#12 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

ANCHORS CL TO CL DISTANCES
 INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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A	06.03.10		UPDATED TO 2007 FBC
B	08.31.10		REV. PER BCCO COMMENTS
C	04.27.12		UPDATED TO 2010 FBC

date: 06-21-07
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
M07-02
 sheet 6 of 6