



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) 372-6339

www.miamidade.gov/buldingcode

NOTICE OF ACCEPTANCE (NOA)

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 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: Narrow Steel Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **M07-03**, titled "Narrow Steel Mullion System", sheets 1 through 11 of 11, dated 07/02/07, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, 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 Resistant

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 # 07-0503.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



Carlos M. Utrera
4/17/08

NOA No. 08-0326.01
Expiration Date: May 2, 2012
Approval Date: May 1, 2008
Page 1

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M07-03**, Sheets 1 through 11 of 11, titled "Narrow Steel Mullion System", dated 07/02/07, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on: 2) Uniform Static Air Pressure Test, Loading 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 two-wide Fiberglass/Wood Fixed Windows Muller Jamb-to-Jamb with a Narrow Steel Mullion, prepared by Architectural Testing, Inc., Test Report No. **ATI-76004.01-201-18**, dated 01/08/08, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 07/02/07, signed and sealed by Humayoun Farooq, P.E.
"Evidence Submitted under NOA # 07-0503.02"
2. Deflection verification calculations complying with FBC-2004, prepared by Al-Farooq Corporation, dated 03/08/08, signed and sealed by Humayoun Farooq, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

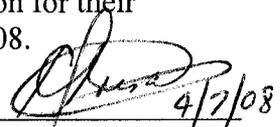
1. None.

F. STATEMENTS

1. Statement letter of conformance, dated 03/11/08, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 03/11/08, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. **ATI-76004.01-201-18**, issued by Architectural Testing, Inc., dated 01/09/08, signed and sealed by Joseph A. Reed, P.E.

G. OTHER

1. Notice of Acceptance No. **07-0503.02**, issued to Andersen Corporation for their Narrow Steel Mullion, approved on 08/02/07 and expiring on 05/02/08.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0326.01

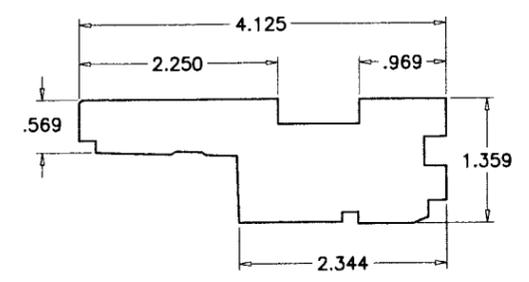
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Approval Date: May 1, 2008

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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 MULLION M07-03AC

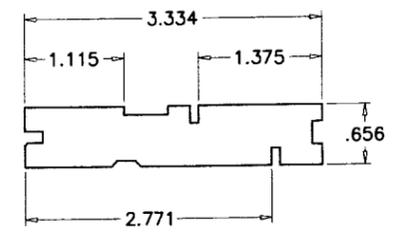
ANDERSEN CORPORATION
 100 FOURTH AVE. NORTH
 BAYPORT, MN. 55003-1096
 TEL. (800) 426-7691 FAX (-)
 NARROW STEEL MULLION SYSTEM

| revisions: | no | date | by | description |
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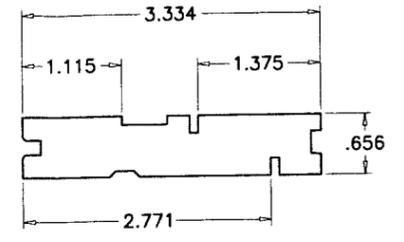
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 dr. by: HAMID
 chk. by:
 drawing no.
M07-03
 sheet 2 of 11



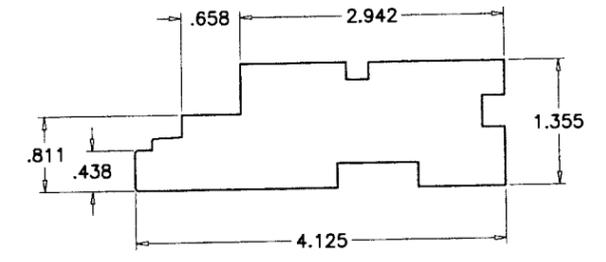
CASEMENT
 FRAME HEAD/SILL
 30835
 WOOD
 AWNING
 FRAME JAMB
 30836
 WOOD



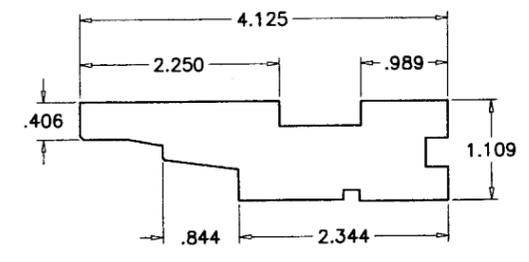
TILT-WASH DOUBLE HUNG
 FRAME HEAD
 WOOD



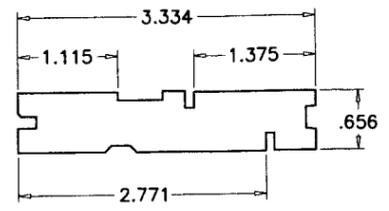
WOODWRIGHT DOUBLE HUNG
 FRAME HEAD/JAMB
 WOOD



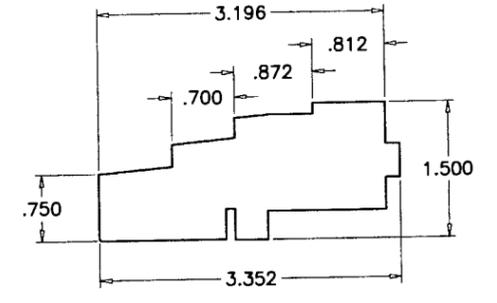
SPECIALITY DIRECT SET (CTC & CTQC)
 FRAME SILL
 27230
 WOOD



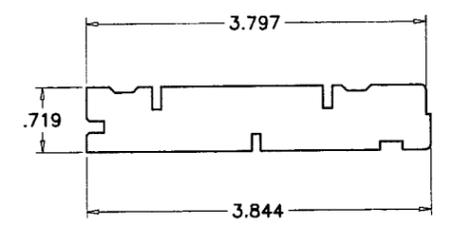
CASEMENT
 FRAME JAMB
 30838
 WOOD
 AWNING
 FRAME HEAD/SILL
 30838
 WOOD



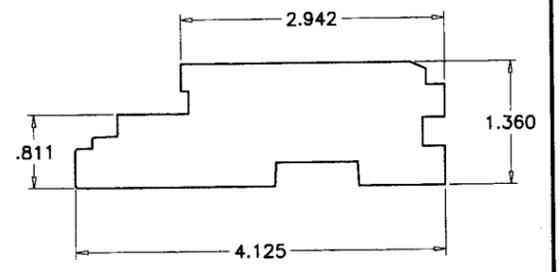
TILT-WASH DOUBLE HUNG
 FRAME JAMB
 WOOD
 TILT-WASH FIXED
 FRAME HEAD/SILL/JAMB
 WOOD
 WOODWRIGHT FIXED
 FRAME HEAD/SILL/JAMB
 WOOD



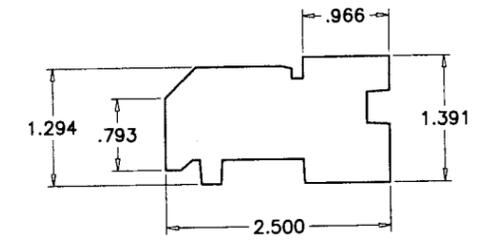
SPECIALITY DIRECT SET (CTN)
 FRAME SILL
 27122
 WOOD



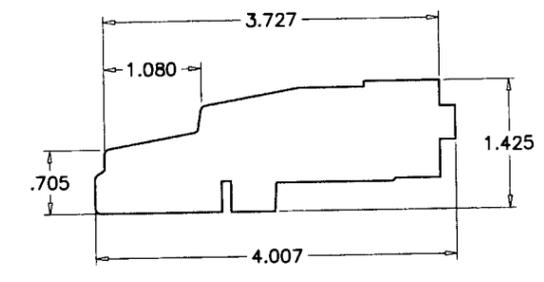
PSNL
 FRAME HEAD/SILL/JAMB
 WOOD



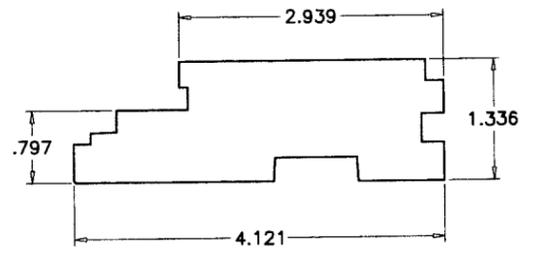
CASEMENT PICTURE
 FRAME HEAD/SILL/JAMB
 WOOD



FLEXIFRAME FIXED
 FRAME HEAD/SILL/JAMB
 WOOD



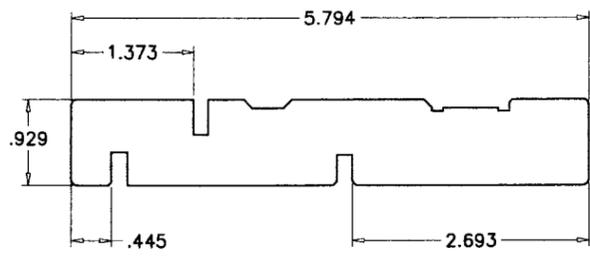
SPECIALITY DIRECT SET (ET)
 FRAME SILL
 53103
 WOOD



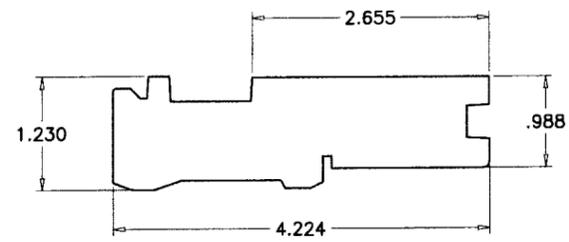
CASEMENT PICTURE (P)
 FRAME HEAD/SILL/JAMB
 30394
 WOOD

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 MAR 11 2008

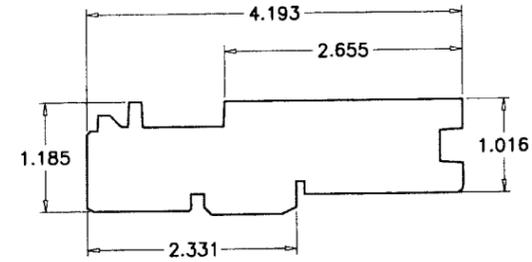
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0326-01
 Expiration Date 05/07/2012
 By: [Signature]
 Miami Dade Product Control
 Division



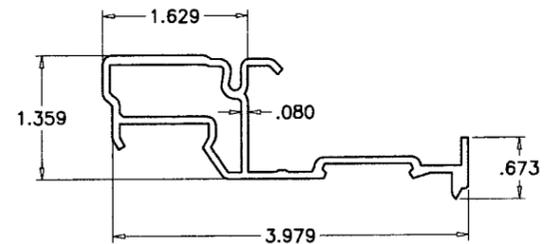
FWG
GLIDING DOOR FRAME HEAD
WOOD



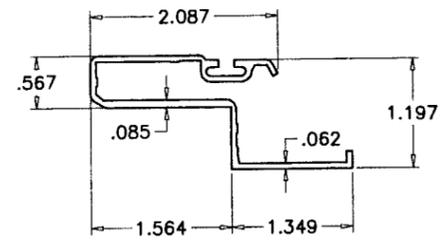
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



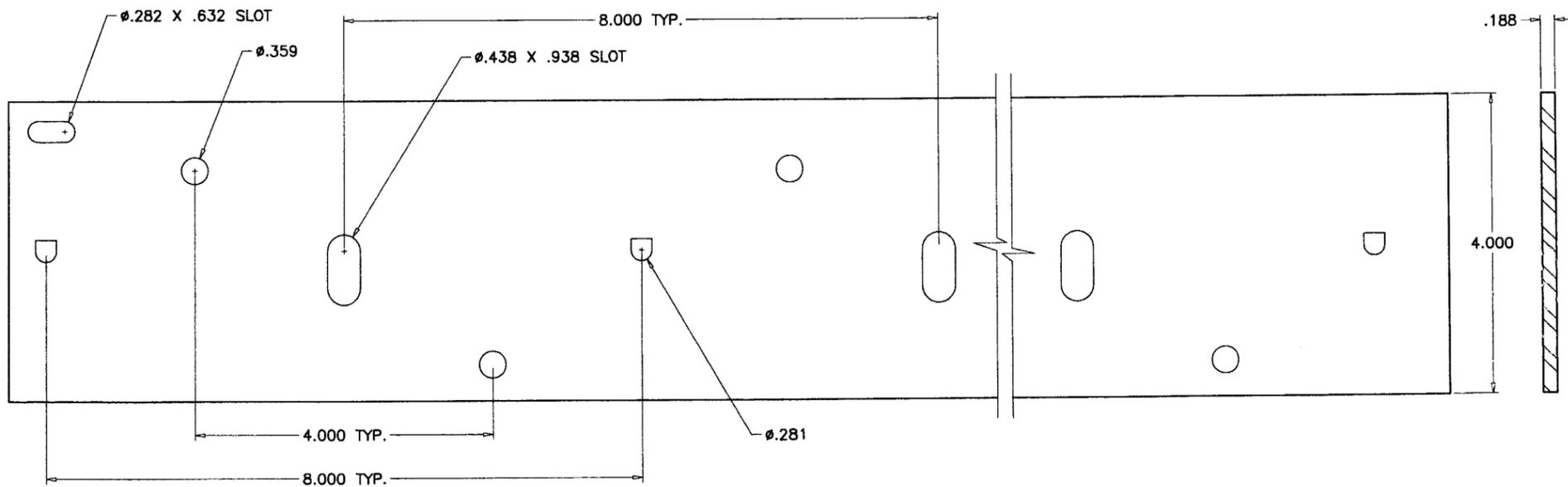
FWO
OUTSWING DOOR HEAD/JAMB (OPERATING/STATIONARY)
57019
WOOD



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



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



NARROW MULLION
ZINC PLATED STEEL

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 11 2008

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0326-01
Expiration Date 05/07/2012

By: *[Signature]*
Miami Dade Product Control
Division

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M07-03AC

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

| revisions: | no | date | by | description |
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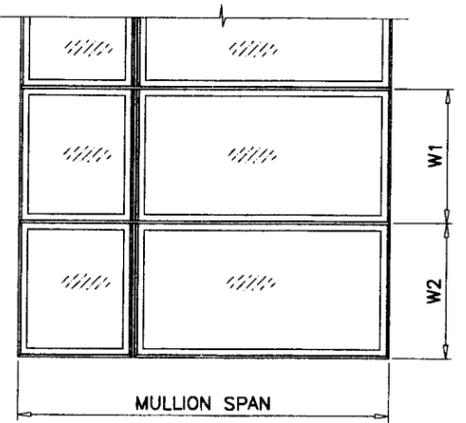
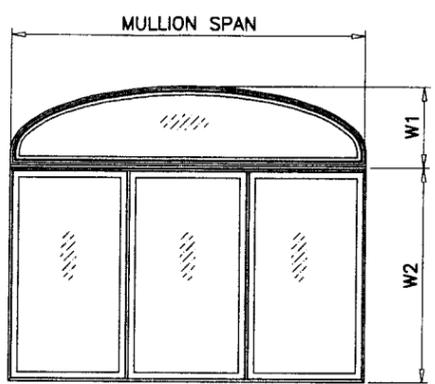
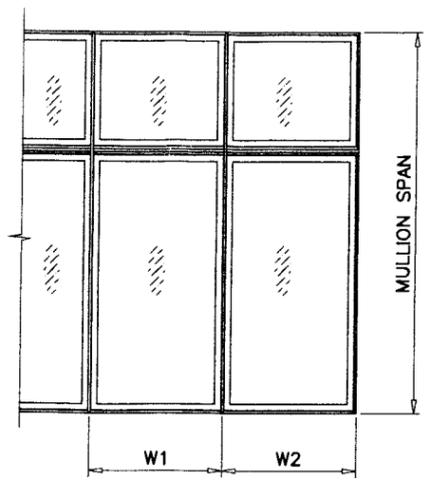
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dr. by: HAMID
chk. by:

drawing no.
M07-03
sheet 3 of 11

| DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS | | | |
|---|--------------|----------------------|-------|
| WINDOW DIMS. | | EXT. (+) INT. (-) | |
| WIDTH (W) | MULLION SPAN | | |
| 12" | 60" | 100.0 | |
| 15" | | 100.0 | |
| 18" | | 100.0 | |
| 21" | | 100.0 | |
| 24" | | 100.0 | |
| 27" | | 100.0 | |
| 30" | | 100.0 | |
| 33" | | 99.5 | |
| 36" | | 94.5 | |
| 39" | | 88.6 | |
| 42" | | 82.3 | |
| 45" | | 76.8 | |
| 48" | | 72.0 | |
| 12" | | 66" | 100.0 |
| 15" | | | 100.0 |
| 18" | | | 100.0 |
| 21" | 100.0 | | |
| 24" | 100.0 | | |
| 27" | 100.0 | | |
| 30" | 93.4 | | |
| 33" | 86.6 | | |
| 36" | 79.3 | | |
| 39" | 73.2 | | |
| 42" | 68.0 | | |
| 45" | 63.5 | | |
| 48" | 59.5 | | |
| 12" | 72" | | 100.0 |
| 15" | | | 100.0 |
| 18" | | | 100.0 |
| 21" | | 100.0 | |
| 24" | | 99.2 | |
| 27" | | 88.9 | |
| 30" | | 80.0 | |
| 33" | | 72.7 | |
| 36" | | 66.7 | |
| 39" | | 61.5 | |
| 42" | | 57.1 | |
| 45" | | 53.3 | |
| 48" | | 50.0 | |
| 12" | | 78" | 100.0 |
| 15" | | | 100.0 |
| 18" | | | 100.0 |
| 21" | 97.4 | | |
| 24" | 85.2 | | |
| 27" | 75.7 | | |
| 30" | 68.2 | | |
| 33" | 62.0 | | |
| 36" | 56.8 | | |
| 39" | 52.4 | | |
| 42" | 48.7 | | |

| DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS | | | |
|---|--------------|----------------------|-------|
| WINDOW DIMS. | | EXT. (+) INT. (-) | |
| WIDTH (W) | MULLION SPAN | | |
| 12" | 84" | 100.0 | |
| 15" | | 100.0 | |
| 18" | | 98.0 | |
| 21" | | 84.0 | |
| 24" | | 73.5 | |
| 27" | | 65.3 | |
| 30" | | 58.8 | |
| 33" | | 53.4 | |
| 36" | | 49.0 | |
| 39" | | 45.2 | |
| 12" | | 90" | 100.0 |
| 15" | | | 100.0 |
| 18" | | | 85.3 |
| 21" | | | 73.1 |
| 24" | | | 64.0 |
| 27" | | | 56.9 |
| 30" | 51.2 | | |
| 33" | 46.5 | | |
| 36" | 42.7 | | |
| 12" | 96" | | 100.0 |
| 15" | | | 90.0 |
| 18" | | | 75.0 |
| 21" | | | 64.3 |
| 24" | | | 56.3 |
| 27" | | | 50.0 |
| 30" | | | 45.0 |
| 33" | | 40.9 | |
| 36" | | 37.5 | |
| 12" | | 102" | 99.7 |
| 15" | | | 79.7 |
| 18" | | | 66.4 |
| 21" | | | 56.9 |
| 24" | | | 49.8 |
| 27" | | | 44.3 |
| 30" | | | 39.9 |
| 33" | 36.2 | | |
| 12" | 108" | | 88.9 |
| 15" | | | 71.1 |
| 18" | | | 59.3 |
| 21" | | | 50.8 |
| 24" | | | 44.4 |
| 27" | | | 39.5 |
| 30" | | | 35.6 |
| 12" | | | 114" |
| 15" | | 63.8 | |
| 18" | | 53.2 | |
| 21" | | 45.6 | |
| 24" | | 39.9 | |
| 27" | | 35.5 | |
| 30" | | 31.9 | |

| DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS | | | | |
|---|--------------|----------------------|------|------|
| WINDOW DIMS. | | EXT. (+) INT. (-) | | |
| WIDTH (W) | MULLION SPAN | | | |
| 12" | 120" | 72.0 | | |
| 15" | | 57.6 | | |
| 18" | | 48.0 | | |
| 21" | | 41.1 | | |
| 24" | | 36.0 | | |
| 27" | | 32.0 | | |
| 12" | | 126" | 65.3 | |
| 15" | | | 52.2 | |
| 18" | | | 43.5 | |
| 21" | | | 37.3 | |
| 24" | | | 32.7 | |
| 27" | | | 29.0 | |
| 12" | | | 132" | 59.5 |
| 15" | | | | 47.6 |
| 18" | | | | 39.7 |
| 21" | | | | 34.0 |
| 24" | 29.8 | | | |
| 12" | 138" | | | 54.4 |
| 15" | | | | 43.6 |
| 18" | | | | 36.3 |
| 21" | | | | 31.1 |
| 24" | | | | 27.2 |
| 12" | | 144" | | 49.7 |
| 15" | | | | 39.8 |
| 18" | | | | 33.2 |
| 21" | | | | 28.4 |
| 24" | | | | 24.9 |



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

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
MAR 11 2008

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0326.01
Expiration Date 05/02/2012
By: *[Signature]*
Miami Dade Product Control
Division

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M07-03AC

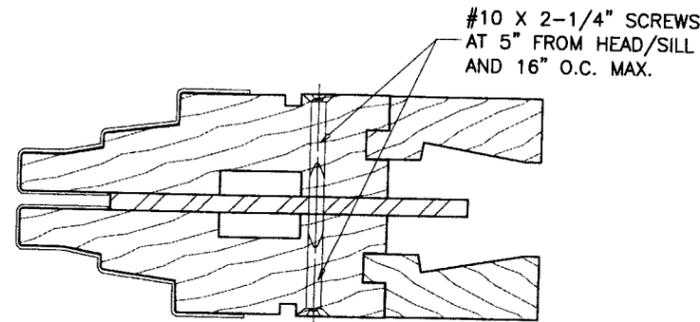
NARROW STEEL MULLION SYSTEM
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL (800) 426-7691 FAX (-)

| revisions: | no | date | by | description |
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date: 07-02-07
scale: -
dr. by: HAMID
chk. by:

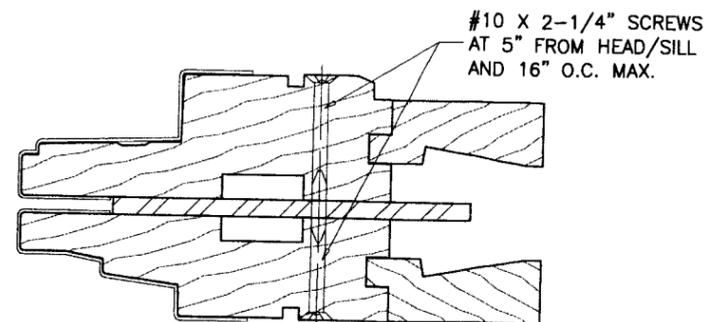
drawing no.
M07-03

sheet 5 of 11

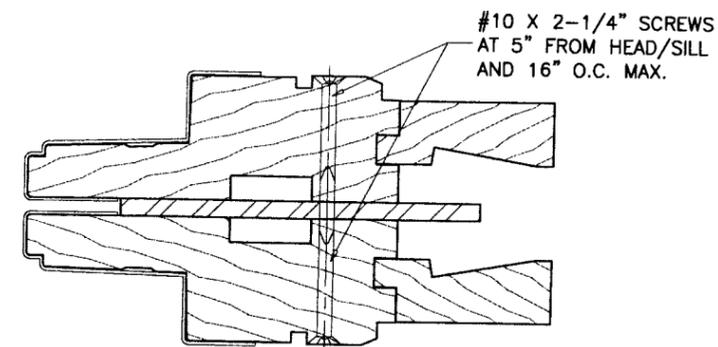


CASEMENT TO CASEMENT
VERTICAL JOIN

AWNING TO AWNING
HORIZONTAL JOIN

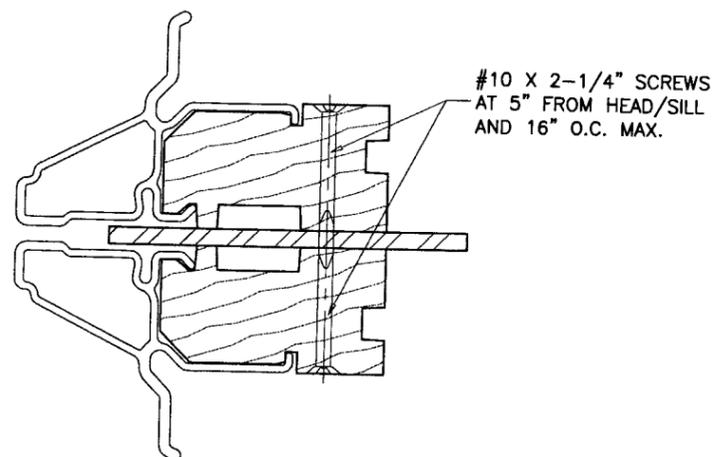


CASEMENT TO AWNING
VERTICAL OR HORIZONTAL JOIN

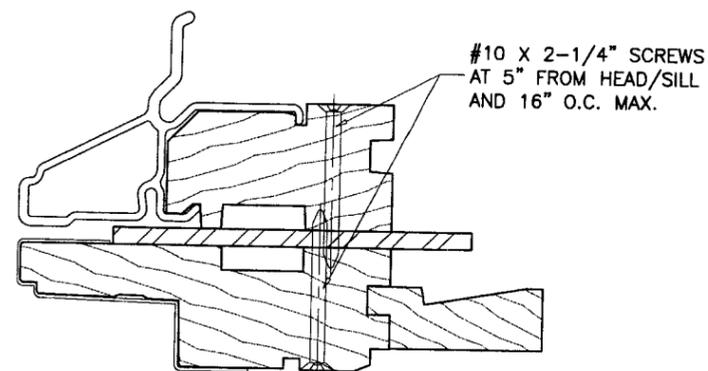


CASEMENT TO CASEMENT
HORIZONTAL JOIN

AWNING TO AWNING
VERTICAL JOIN

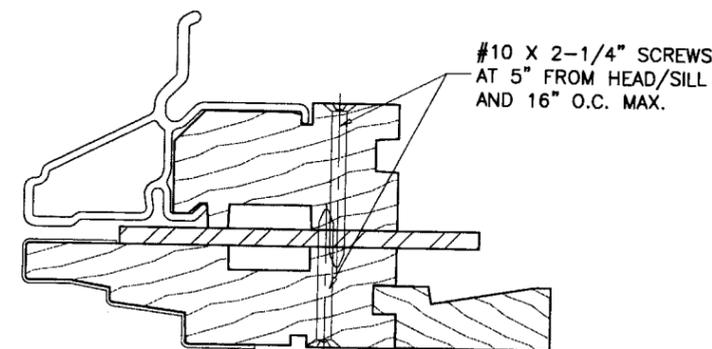


FLEXIFRAME TO FLEXIFRAME
VERTICAL OR HORIZONTAL JOIN



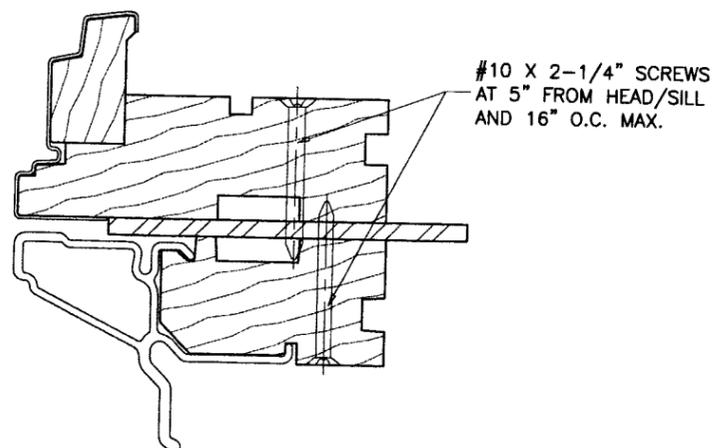
CASEMENT TO FLEXIFRAME
HORIZONTAL JOIN

AWNING TO FLEXIFRAME
VERTICAL JOIN



CASEMENT TO FLEXIFRAME
VERTICAL JOIN

AWNING TO FLEXIFRAME
HORIZONTAL JOIN



FLEXIFRAME TO CIRCLE TOP/QUARTER
VERTICAL OR HORIZONTAL JOIN

a f c

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ENGINEERS & PRODUCT DEVELOPMENT
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MULLION M07-03AC

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



| revisions: | |
|------------|---------------------|
| no | date by description |
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Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 11 2008

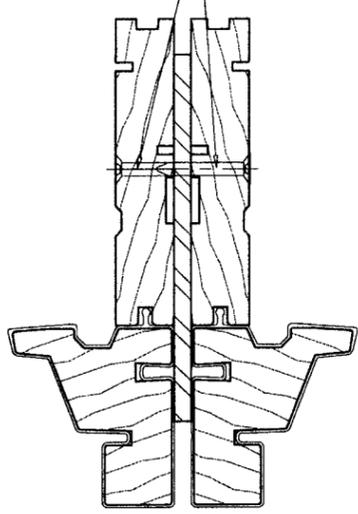
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0376.01
Expiration Date 05/02/2012

By: *[Signature]*
Miami/Dade Product Control
Division

date: 07-02-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M07-03
sheet 6 of 11

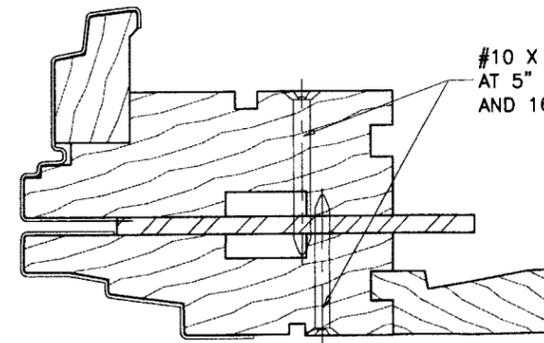
#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



400 TWDH WDW TO 400 TWDH WDW
VERTICAL JOIN

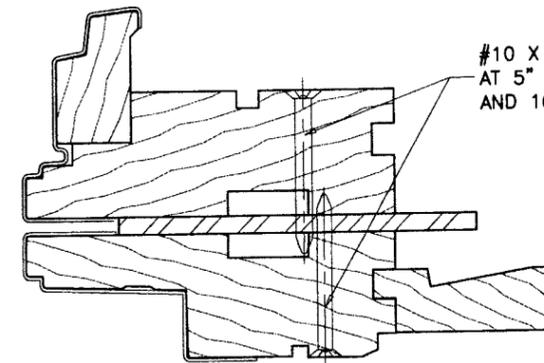
400 TWDH WDW TO 400 TWDH PICTURE WDW
VERTICAL JOIN

#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



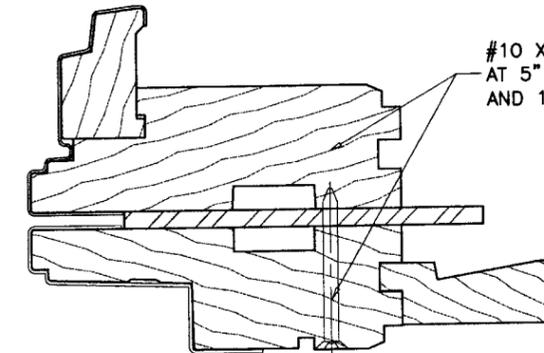
CIRCLE TOP TO AWNING
HORIZONTAL JOIN

#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



CIRCLE TOP TO CASEMENT
HORIZONTAL JOIN

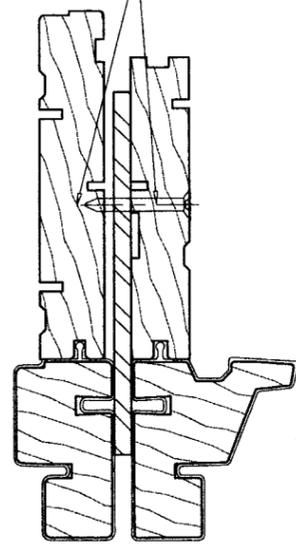
#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



CASMT PICTURE WDW. TO AWNING
VERTICAL JOIN

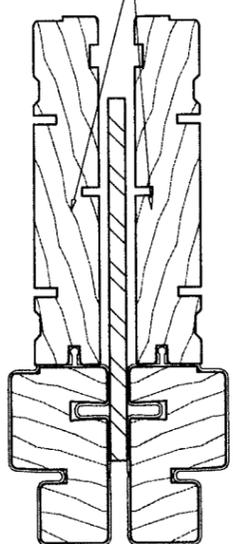
CASMT PICTURE WDW. TO CASEMENT
HORIZONTAL JOIN

#10 X 2-1/4" SCREWS
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AND 16" O.C. MAX.



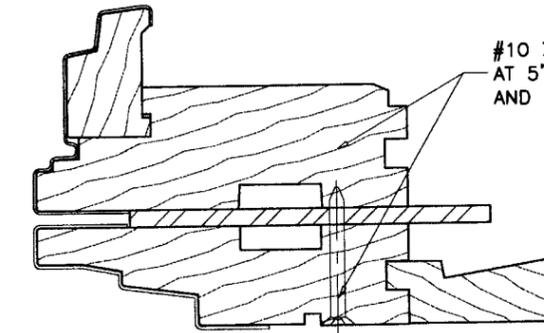
PSNL WDW TO 400 TWDH PICTURE WDW
VERTICAL JOIN

#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



PSNL WDW TO PSNL WDW
VERTICAL JOIN

#10 X 2-1/4" SCREWS
AT 5" FROM HEAD/SILL
AND 16" O.C. MAX.



CASMT PICTURE WDW. TO AWNING
HORIZONTAL JOIN

CASMT PICTURE WDW. TO CASEMENT
VERTICAL JOIN

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STRUCTURES
FLA. PE # 16557
C.A.N. 3538

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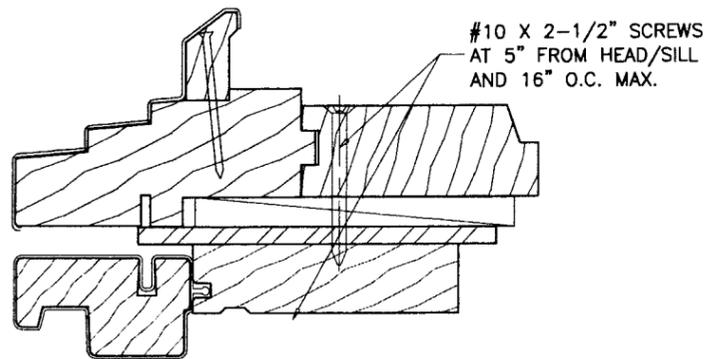
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
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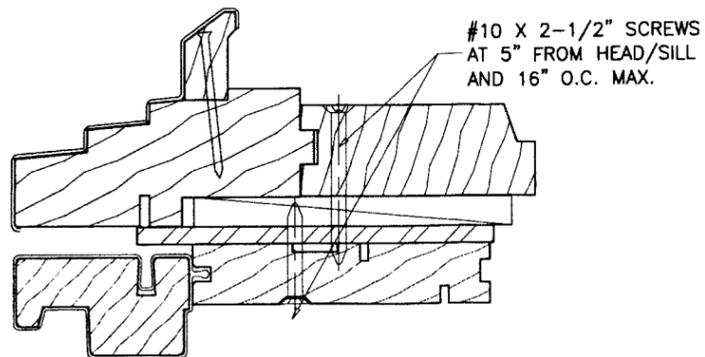
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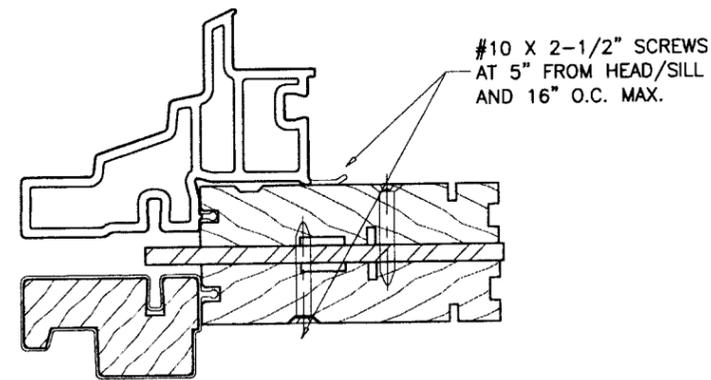
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dr. by: HAMID
chk. by:
drawing no.
M07-03
sheet 7 of 11



PSNL TO CIRCLE TOP-NL
HORIZONTAL JOIN



400 TW TO CIRCLE TOP-NL
HORIZONTAL JOIN



400 TW TO TW TRANSOM
HORIZONTAL JOIN

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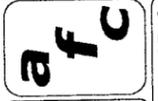
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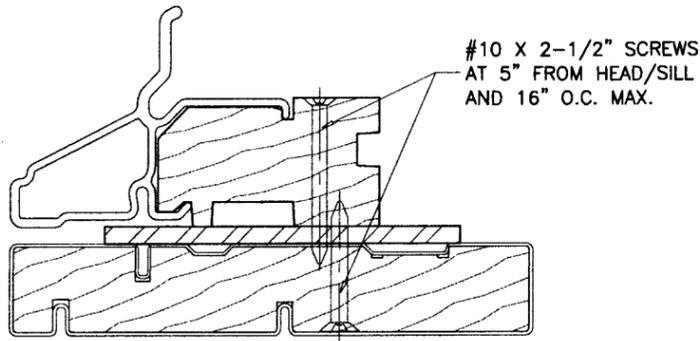
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chk. by:

drawing no.
M07-03
sheet 8 of 11

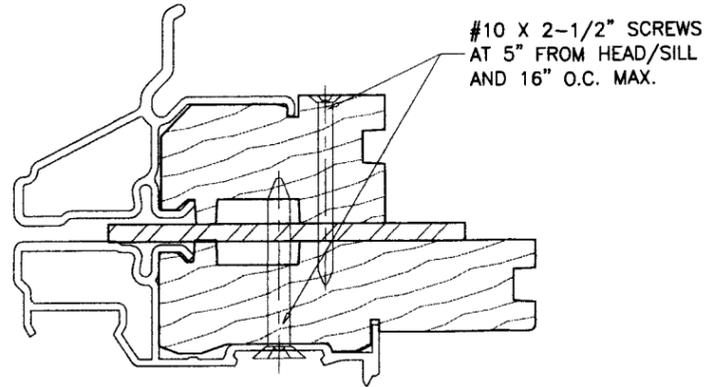
NARROW STEEL MULLION SYSTEM
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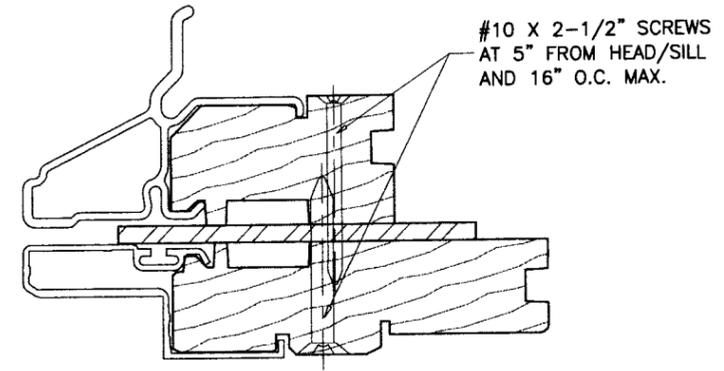




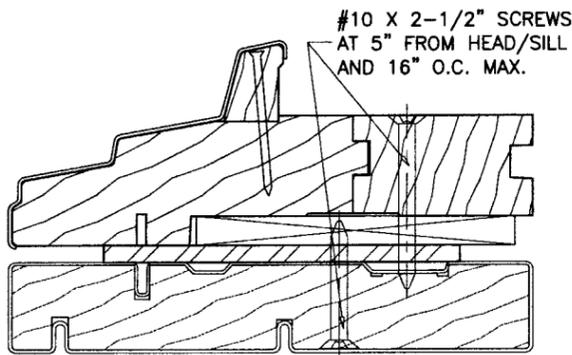
FLEXIFRAME/ARCH/SPRINGLINE TO FW GLIDING DOOR
HORIZONTAL JOIN



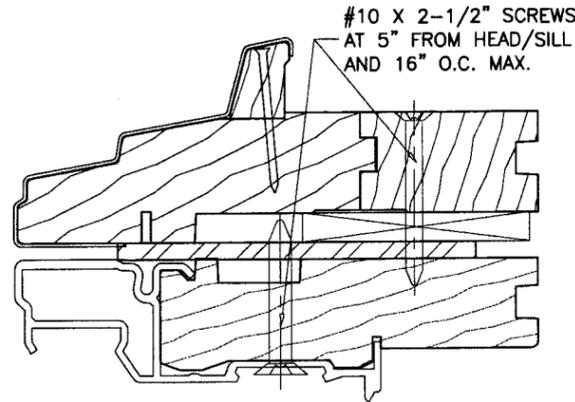
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



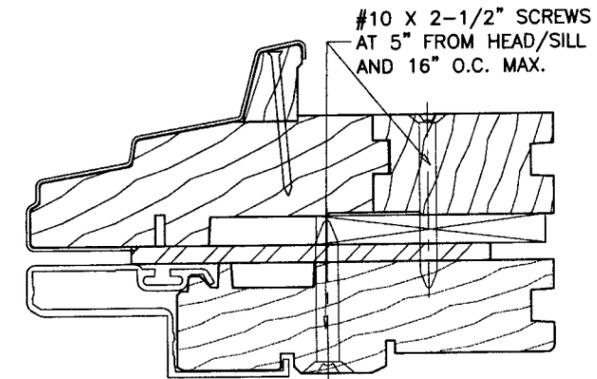
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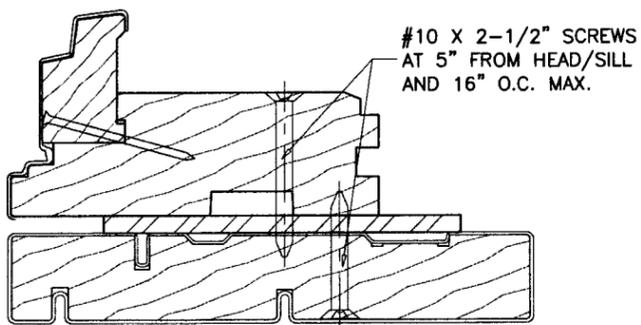
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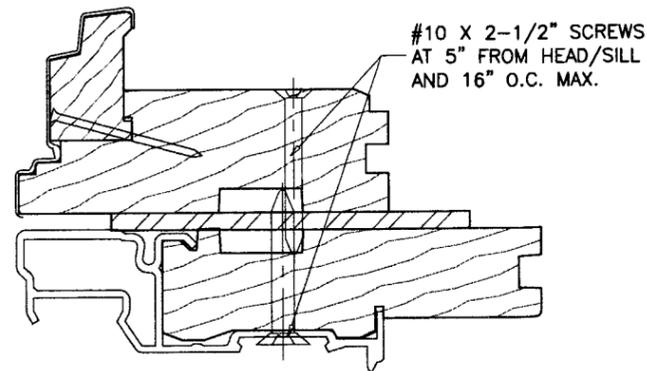
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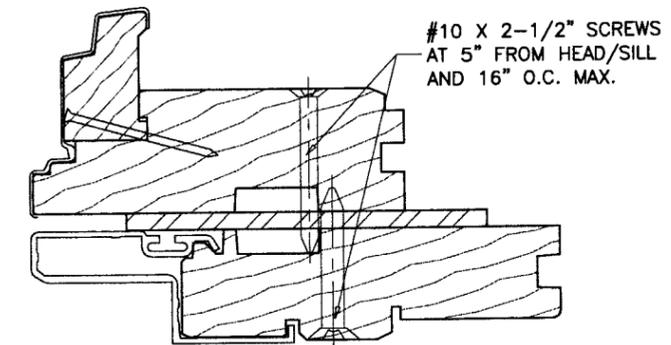
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FW GLIDING DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWH DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWO DOOR
HORIZONTAL JOIN

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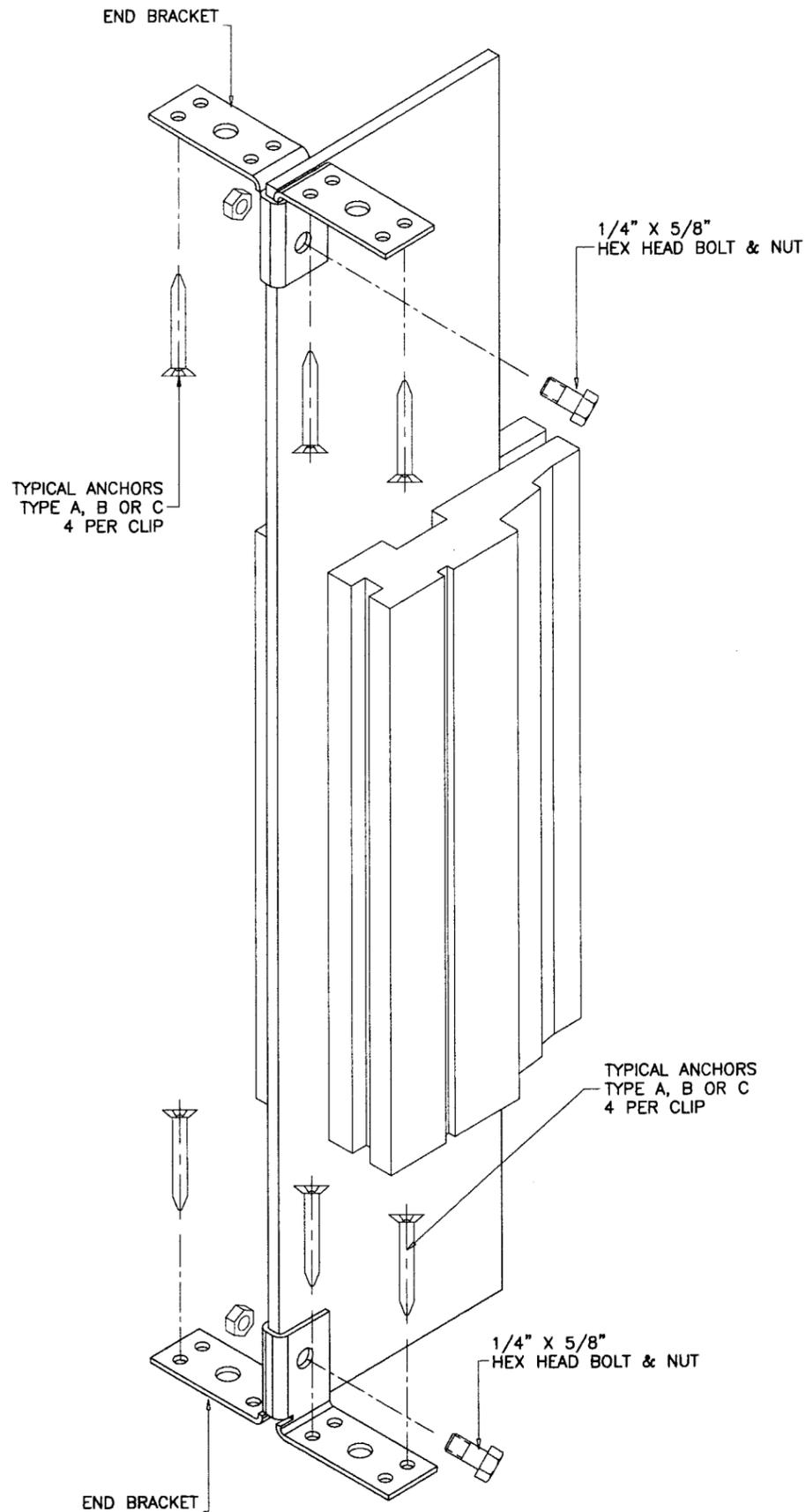
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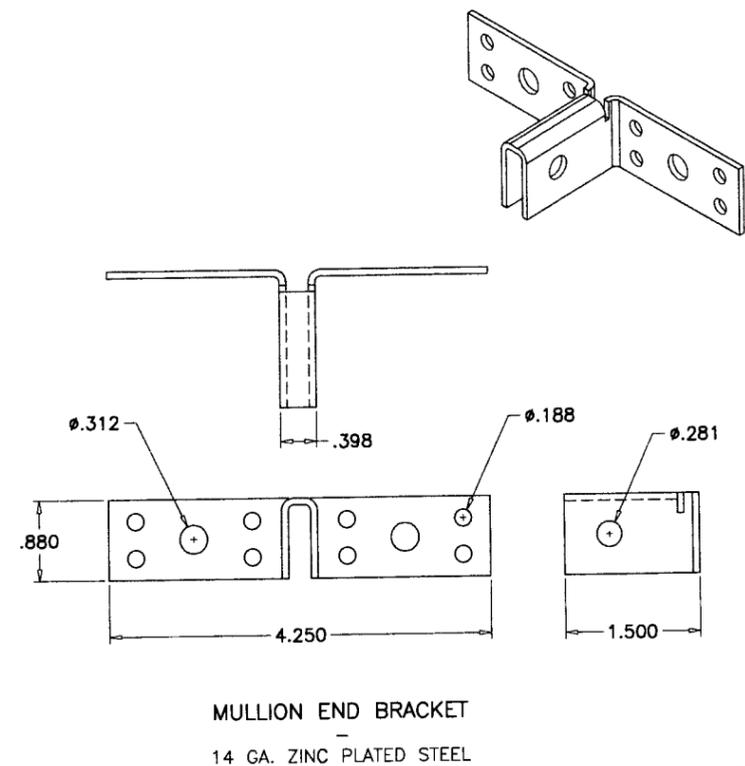
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chk. by:

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M07-03
sheet 9 of 11



**VERTICAL OR HORIZONTAL
MULLION CONNECTION**



TYPICAL ANCHORS:

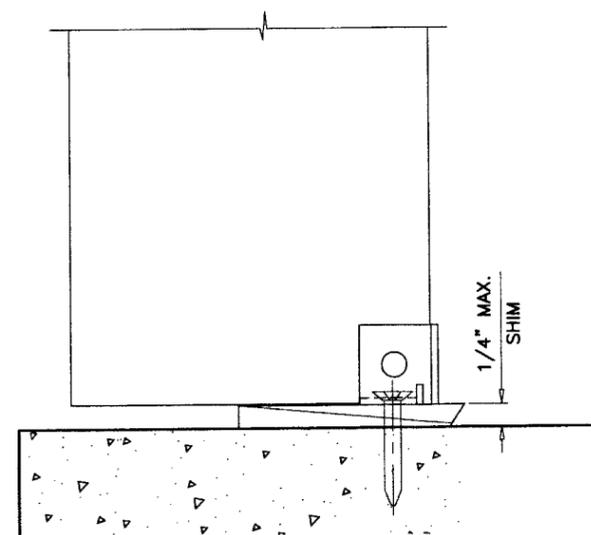
- TYPE 'A' - **#12 SMS OR WOOD SCREWS**
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-3/8" MIN. PENETRATION INTO WOOD
- TYPE 'B' - **3/16" DIA TAPCONS BY 'ELCO'**
THRU 1BY WOOD BUCKS INTO MASONRY OR CONC.
1-1/2" MIN. EMBED INTO MASONRY OR CONC.
DIRECTLY INTO CONCRETE OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE OR MASONRY
- TYPE 'C' - **#12 SMS OR SELF DRILLING SCREWS**
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : .080" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCES

- INTO CONCRETE AND MASONRY = 1-7/8" MIN.
- INTO WOOD STRUCTURE = 3/4" MIN.
- INTO METAL STRUCTURE = 1/2" MIN.

ANCHORS C C TO C DISTANCES

- INTO CONCRETE AND MASONRY = 1-3/16" MIN.
- INTO WOOD STRUCTURE = 3/4" MIN.
- INTO METAL STRUCTURE = 3/4" MIN.



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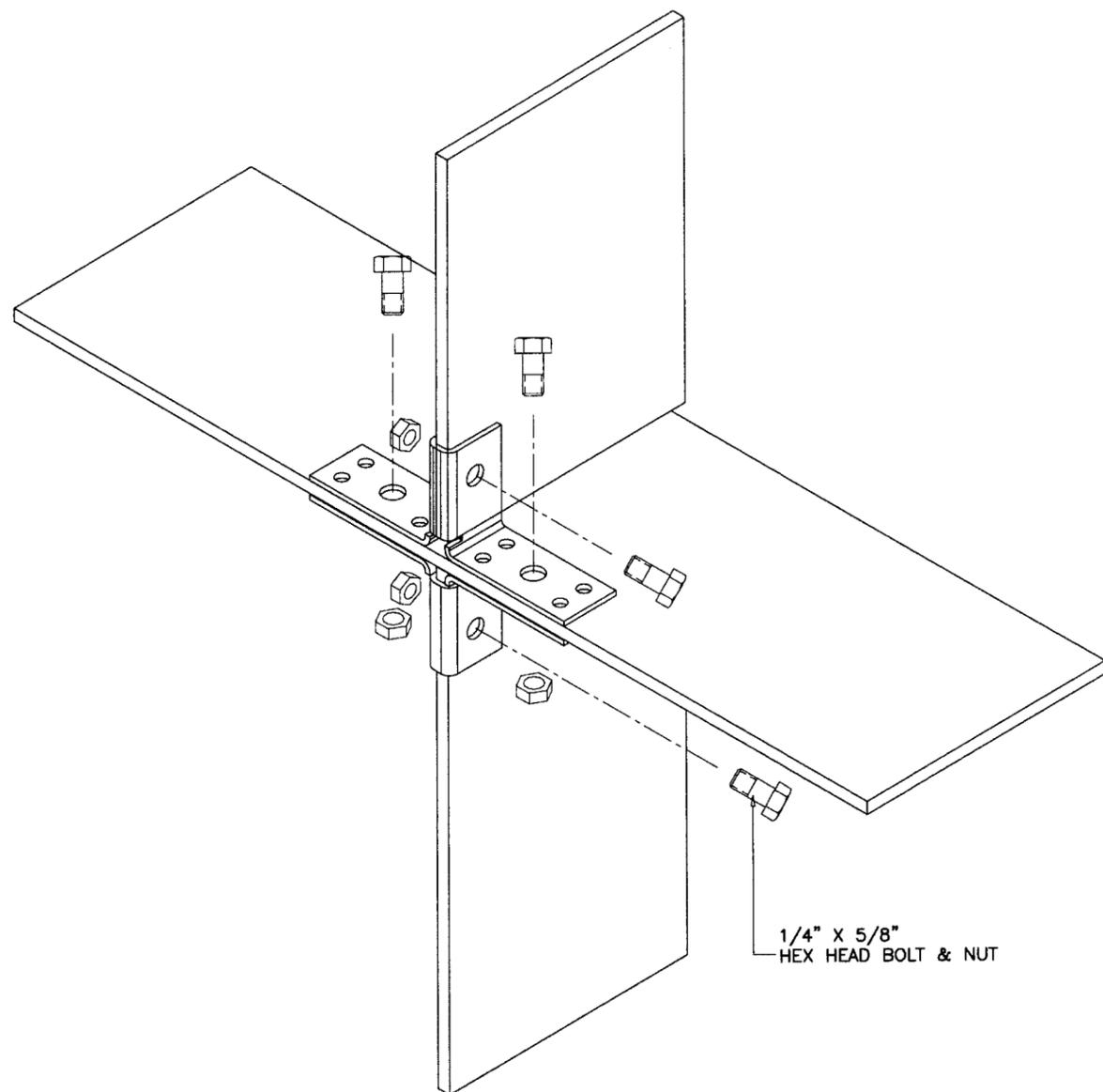
NARROW STEEL MULLION SYSTEM

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1/4" X 5/8"
HEX HEAD BOLT & NUT

VERT. MULLION CONNECTION TO HORIZONTAL MULLION

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