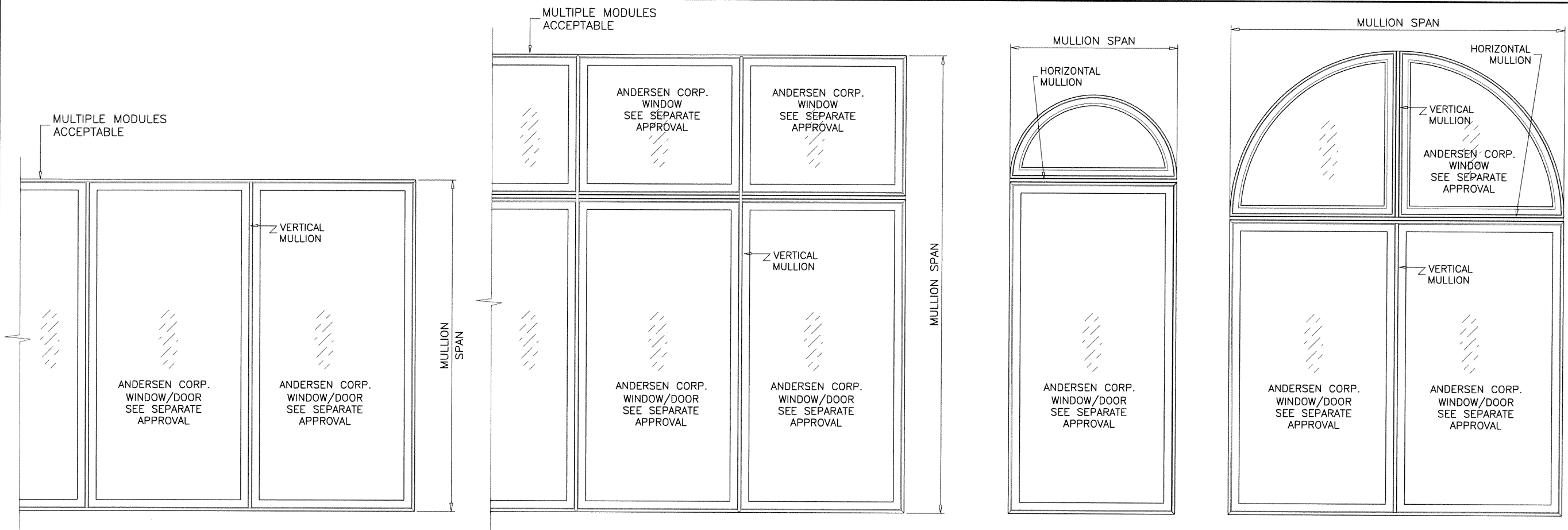




**TYPICAL MULLION ARRANGEMENT**

**NARROW STEEL MULLION SYSTEM**

**WINDOW FRAME MEMBERS INCLUDED IN PROPERTIES**

DESIGN LOAD RATING FOR THIS MULLION TO BE AS PER CHARTS SHOWN ON SHEETS 4 AND 5.

APPROVAL APPLIES TO MULLIONS COMBINATIONS WITH FRAME MEMBERS OF ANDERSEN CORPORATION WINDOW AND DOORS IN ANY COMBINATIONS SEE SHEET 2 FOR WINDOW FRAME MEMBER DETAILS. SEE SHEET 3 FOR DOOR FRAME MEMBER DETAILS.

SEE SEPARATE APPROVAL 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.

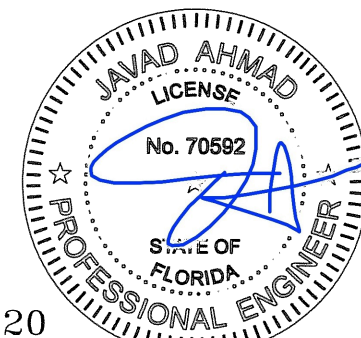
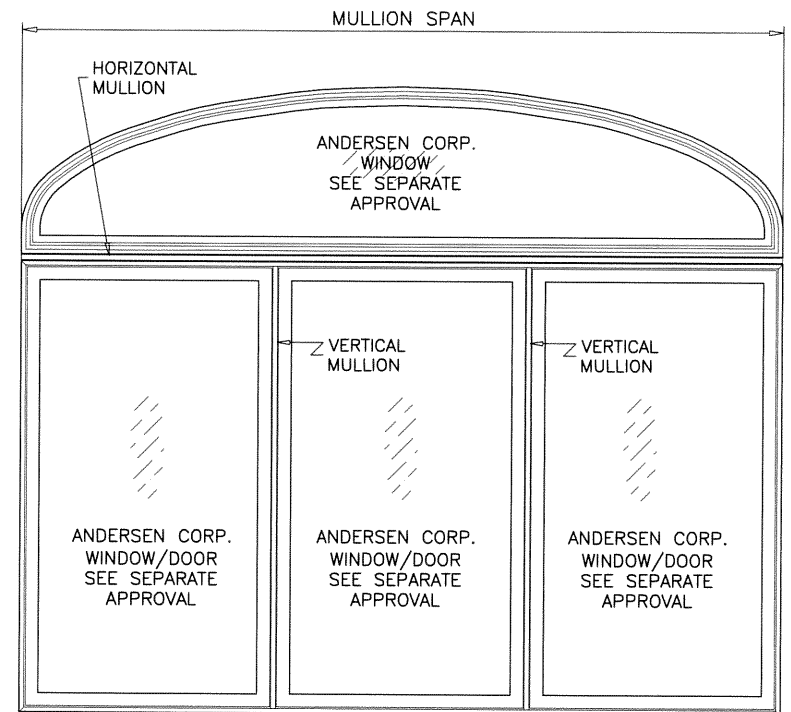
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1710.8.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1710.8.2.

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT. AND CAN BE USED WITH ALL F.B.C. APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



FL #17720

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**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 M15-03AC

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

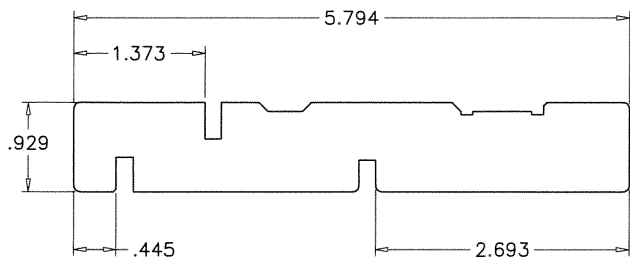
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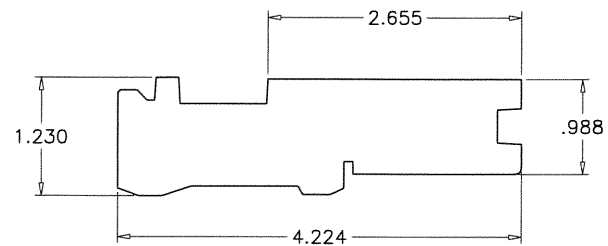
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**M15-03**

sheet 1 of 11

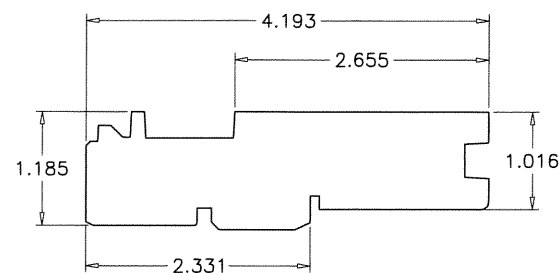




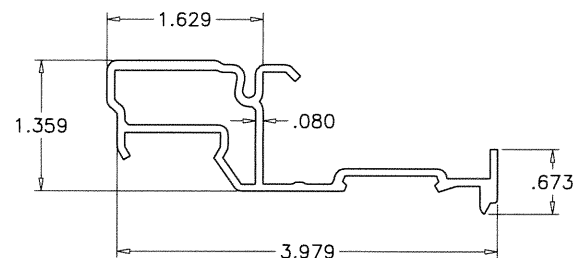
FWG  
GLIDING DOOR FRAME HEAD  
-  
WOOD



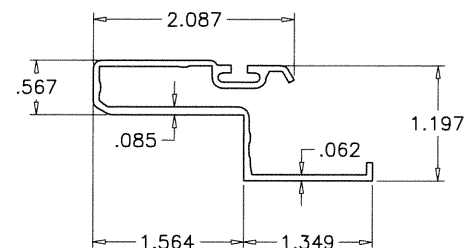
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52253  
WOOD



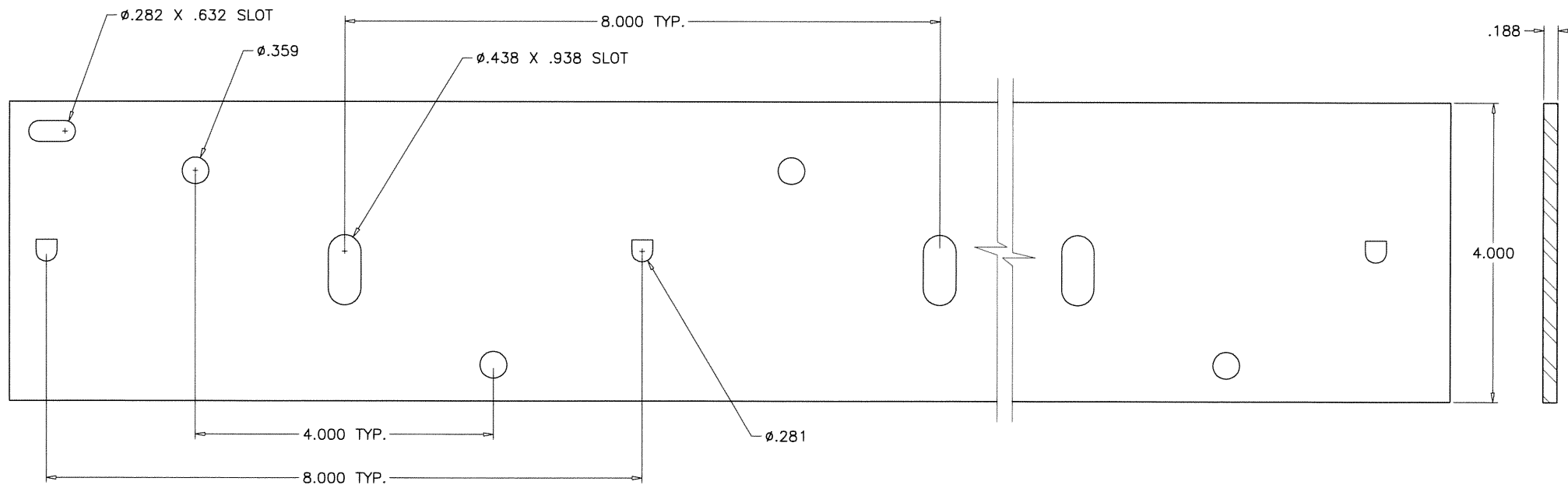
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57019  
WOOD



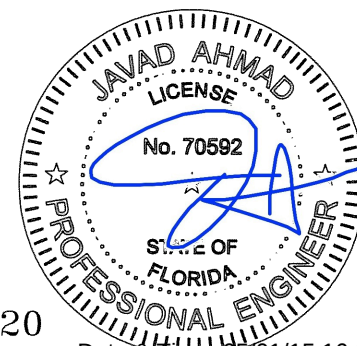
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HINGED HEAD/JAMB COVER (OPERATING/STATIONARY)  
52225  
FIBERGLASS



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



NARROW MULLION  
-  
ZINC PLATED STEEL



FL #17720

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TEL. (305) 264-8100 FAX. (305) 262-6978

**af c**  
MULLION\M15-03AC

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NARROW STEEL MULLION SYSTEM

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

**AW**  
ANDERSEN

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| revisions: |                     |
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date: 04-29-15  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

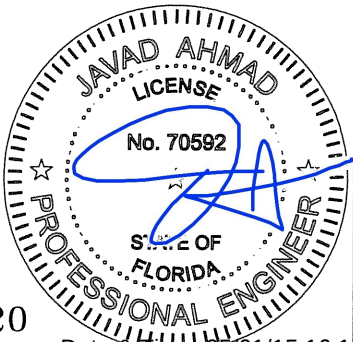
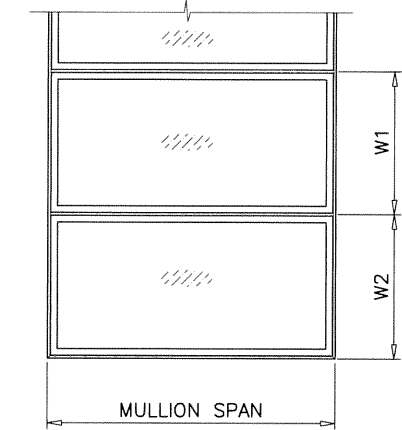
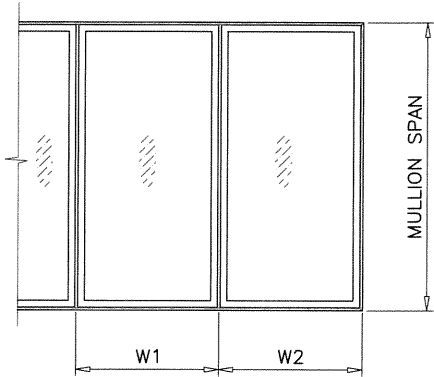
drawing no.  
**M15-03**  
sheet 3 of 11

| DESIGN LOAD CAPACITY – PSF<br>W/O INTERMEDIATE HORIZONTALS |           |                      |
|------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                               |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                  | MULL SPAN |                      |
| 12"                                                        | 60"       | 100.0                |
| 15"                                                        |           | 100.0                |
| 18"                                                        |           | 100.0                |
| 21"                                                        |           | 94.2                 |
| 24"                                                        |           | 85.0                 |
| 27"                                                        |           | 78.0                 |
| 30"                                                        |           | 72.5                 |
| 33"                                                        |           | 68.2                 |
| 36"                                                        |           | 64.8                 |
| 39"                                                        |           | 62.0                 |
| 42"                                                        | 66"       | 59.8                 |
| 45"                                                        |           | 58.0                 |
| 48"                                                        |           | 56.7                 |
| 12"                                                        |           | 100.0                |
| 15"                                                        |           | 100.0                |
| 18"                                                        |           | 95.4                 |
| 21"                                                        |           | 84.0                 |
| 24"                                                        |           | 75.6                 |
| 27"                                                        |           | 69.1                 |
| 30"                                                        |           | 64.0                 |
| 33"                                                        | 72"       | 59.9                 |
| 36"                                                        |           | 56.7                 |
| 39"                                                        |           | 54.0                 |
| 42"                                                        |           | 51.8                 |
| 45"                                                        |           | 50.0                 |
| 48"                                                        |           | 48.6                 |
| 12"                                                        |           | 100.0                |
| 15"                                                        |           | 100.0                |
| 18"                                                        |           | 86.3                 |
| 21"                                                        |           | 75.8                 |
| 24"                                                        |           | 68.0                 |
| 27"                                                        |           | 62.0                 |
| 30"                                                        |           | 57.3                 |
| 33"                                                        |           | 53.5                 |
| 36"                                                        |           | 50.4                 |
| 39"                                                        |           | 47.8                 |
| 42"                                                        | 78"       | 45.7                 |
| 45"                                                        |           | 44.0                 |
| 48"                                                        |           | 42.5                 |
| 12"                                                        |           | 100.0                |
| 15"                                                        |           | 92.6                 |
| 18"                                                        |           | 78.8                 |
| 21"                                                        |           | 69.1                 |
| 24"                                                        |           | 61.8                 |
| 27"                                                        |           | 56.2                 |
| 30"                                                        |           | 51.8                 |
| 33"                                                        |           | 48.2                 |
| 36"                                                        |           | 45.3                 |
| 39"                                                        |           | 42.9                 |
| 42"                                                        |           | 40.9                 |

| DESIGN LOAD CAPACITY – PSF<br>W/O INTERMEDIATE HORIZONTALS |           |                      |
|------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                               |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                  | MULL SPAN |                      |
| 12"                                                        | 84"       | 100.0                |
| 15"                                                        |           | 85.3                 |
| 18"                                                        |           | 72.5                 |
| 21"                                                        |           | 63.4                 |
| 24"                                                        |           | 56.7                 |
| 27"                                                        |           | 51.4                 |
| 30"                                                        |           | 47.3                 |
| 33"                                                        |           | 44.0                 |
| 36"                                                        |           | 41.2                 |
| 39"                                                        |           | 38.9                 |
| 12"                                                        | 90"       | 97.1                 |
| 15"                                                        |           | 79.1                 |
| 18"                                                        |           | 67.2                 |
| 21"                                                        |           | 58.7                 |
| 24"                                                        |           | 52.3                 |
| 27"                                                        |           | 47.4                 |
| 30"                                                        |           | 43.5                 |
| 33"                                                        |           | 40.4                 |
| 36"                                                        |           | 37.8                 |
| 12"                                                        | 96"       | 90.7                 |
| 15"                                                        |           | 73.8                 |
| 18"                                                        |           | 62.5                 |
| 21"                                                        |           | 54.5                 |
| 24"                                                        |           | 48.6                 |
| 27"                                                        |           | 44.0                 |
| 30"                                                        |           | 40.3                 |
| 33"                                                        |           | 37.3                 |
| 36"                                                        |           | 34.9                 |
| 12"                                                        | 102"      | 85.0                 |
| 15"                                                        |           | 69.1                 |
| 18"                                                        |           | 58.5                 |
| 21"                                                        |           | 51.0                 |
| 24"                                                        |           | 45.3                 |
| 27"                                                        |           | 41.0                 |
| 30"                                                        |           | 37.5                 |
| 33"                                                        |           | 34.7                 |
| 12"                                                        | 108"      | 80.0                 |
| 15"                                                        |           | 65.0                 |
| 18"                                                        |           | 54.9                 |
| 21"                                                        |           | 47.8                 |
| 24"                                                        |           | 42.5                 |
| 27"                                                        |           | 38.4                 |
| 30"                                                        |           | 35.1                 |
| 12"                                                        | 114"      | 75.6                 |
| 15"                                                        |           | 61.3                 |
| 18"                                                        |           | 51.8                 |
| 21"                                                        |           | 45.1                 |
| 24"                                                        |           | 40.0                 |
| 27"                                                        |           | 36.1                 |
| 30"                                                        |           | 33.0                 |

| DESIGN LOAD CAPACITY – PSF<br>W/O INTERMEDIATE HORIZONTALS |           |                      |
|------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                               |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                  | MULL SPAN |                      |
| 12"                                                        | 120"      | 71.6                 |
| 15"                                                        |           | 58.0                 |
| 18"                                                        |           | 49.0                 |
| 21"                                                        |           | 42.6                 |
| 24"                                                        |           | 37.8                 |
| 27"                                                        |           | 34.1                 |
| 12"                                                        | 126"      | 68.0                 |
| 15"                                                        |           | 55.1                 |
| 18"                                                        |           | 46.5                 |
| 21"                                                        |           | 40.4                 |
| 24"                                                        |           | 35.8                 |
| 27"                                                        |           | 32.2                 |
| 12"                                                        | 132"      | 64.8                 |
| 15"                                                        |           | 52.4                 |
| 18"                                                        |           | 44.2                 |
| 21"                                                        |           | 38.1                 |
| 24"                                                        |           | 33.4                 |
| 12"                                                        | 138"      | 60.6                 |
| 15"                                                        |           | 48.5                 |
| 18"                                                        |           | 40.5                 |
| 21"                                                        |           | 34.8                 |
| 24"                                                        |           | 30.5                 |
| 12"                                                        | 144"      | 55.3                 |
| 15"                                                        |           | 44.3                 |
| 18"                                                        |           | 37.0                 |
| 21"                                                        |           | 31.7                 |
| 24"                                                        |           | 27.8                 |

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



FL #17720

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ENGINEERS & PRODUCT DEVELOPMENT  
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MULLION\M15-03AC

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: 04-29-15

scale: -

dr. by: HAMID

chk. by:

drawing no.

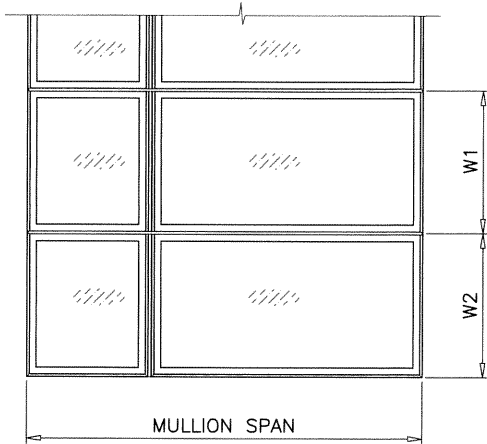
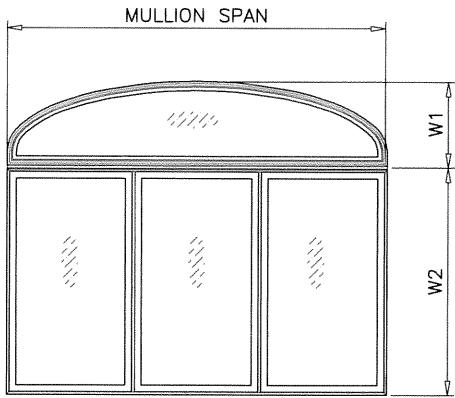
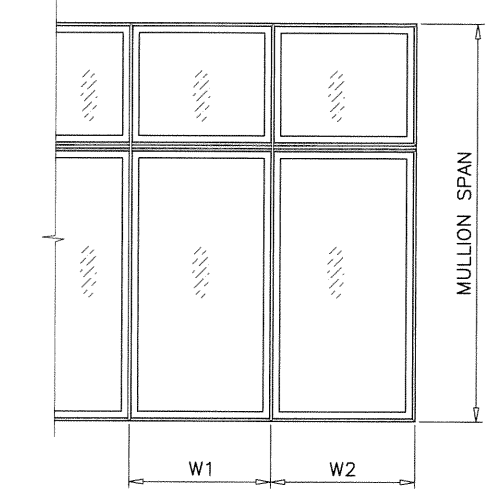
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sheet 4 of 11

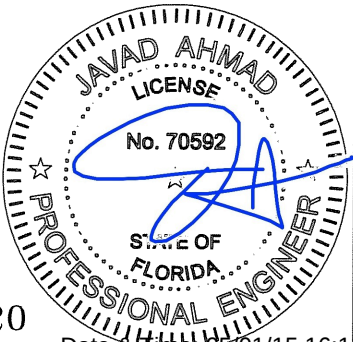
| DESIGN LOAD CAPACITY – PSF<br>WITH INTERMEDIATE HORIZONTALS |           |                      |
|-------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                                |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                   | MULL SPAN |                      |
| 12"                                                         | 60"       | 100.0                |
| 15"                                                         |           | 100.0                |
| 18"                                                         |           | 100.0                |
| 21"                                                         |           | 94.2                 |
| 24"                                                         |           | 85.0                 |
| 27"                                                         |           | 78.0                 |
| 30"                                                         |           | 72.5                 |
| 33"                                                         |           | 68.2                 |
| 36"                                                         |           | 64.8                 |
| 39"                                                         |           | 62.0                 |
| 42"                                                         | 66"       | 59.8                 |
| 45"                                                         |           | 58.0                 |
| 48"                                                         |           | 56.7                 |
| 12"                                                         |           | 100.0                |
| 15"                                                         |           | 100.0                |
| 18"                                                         |           | 95.4                 |
| 21"                                                         |           | 84.0                 |
| 24"                                                         |           | 75.6                 |
| 27"                                                         |           | 69.1                 |
| 30"                                                         |           | 64.0                 |
| 33"                                                         | 72"       | 59.9                 |
| 36"                                                         |           | 56.7                 |
| 39"                                                         |           | 54.0                 |
| 42"                                                         |           | 51.8                 |
| 45"                                                         |           | 50.0                 |
| 48"                                                         |           | 48.6                 |
| 12"                                                         |           | 100.0                |
| 15"                                                         |           | 100.0                |
| 18"                                                         |           | 86.3                 |
| 21"                                                         |           | 75.8                 |
| 24"                                                         |           | 68.0                 |
| 27"                                                         |           | 62.0                 |
| 30"                                                         |           | 57.3                 |
| 33"                                                         |           | 53.5                 |
| 36"                                                         |           | 50.4                 |
| 39"                                                         |           | 47.8                 |
| 42"                                                         | 78"       | 45.7                 |
| 45"                                                         |           | 44.0                 |
| 48"                                                         |           | 42.5                 |
| 12"                                                         |           | 100.0                |
| 15"                                                         |           | 92.6                 |
| 18"                                                         |           | 78.8                 |
| 21"                                                         |           | 69.1                 |
| 24"                                                         |           | 61.8                 |
| 27"                                                         |           | 56.2                 |
| 30"                                                         |           | 51.8                 |
| 33"                                                         |           | 48.2                 |
| 36"                                                         |           | 45.3                 |
| 39"                                                         |           | 42.9                 |
| 42"                                                         |           | 40.9                 |

| DESIGN LOAD CAPACITY – PSF<br>WITH INTERMEDIATE HORIZONTALS |           |                      |
|-------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                                |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                   | MULL SPAN |                      |
| 12"                                                         | 84"       | 100.0                |
| 15"                                                         |           | 85.3                 |
| 18"                                                         |           | 72.5                 |
| 21"                                                         |           | 63.4                 |
| 24"                                                         |           | 56.7                 |
| 27"                                                         |           | 51.4                 |
| 30"                                                         |           | 47.3                 |
| 33"                                                         |           | 44.0                 |
| 36"                                                         |           | 41.2                 |
| 39"                                                         |           | 38.9                 |
| 12"                                                         | 90"       | 97.1                 |
| 15"                                                         |           | 79.1                 |
| 18"                                                         |           | 67.2                 |
| 21"                                                         |           | 58.7                 |
| 24"                                                         |           | 52.3                 |
| 27"                                                         |           | 47.4                 |
| 30"                                                         |           | 43.5                 |
| 33"                                                         |           | 40.4                 |
| 36"                                                         |           | 37.8                 |
| 12"                                                         | 96"       | 90.7                 |
| 15"                                                         |           | 73.8                 |
| 18"                                                         |           | 62.5                 |
| 21"                                                         |           | 54.5                 |
| 24"                                                         |           | 48.6                 |
| 27"                                                         |           | 44.0                 |
| 30"                                                         |           | 40.3                 |
| 33"                                                         |           | 37.3                 |
| 36"                                                         |           | 34.9                 |
| 12"                                                         | 102"      | 85.0                 |
| 15"                                                         |           | 69.1                 |
| 18"                                                         |           | 58.5                 |
| 21"                                                         |           | 51.0                 |
| 24"                                                         |           | 45.3                 |
| 27"                                                         |           | 41.0                 |
| 30"                                                         |           | 37.5                 |
| 33"                                                         |           | 34.7                 |
| 12"                                                         | 108"      | 80.0                 |
| 15"                                                         |           | 65.0                 |
| 18"                                                         |           | 54.9                 |
| 21"                                                         |           | 47.8                 |
| 24"                                                         |           | 42.5                 |
| 27"                                                         |           | 38.4                 |
| 30"                                                         |           | 35.1                 |
| 12"                                                         | 114"      | 75.6                 |
| 15"                                                         |           | 61.3                 |
| 18"                                                         |           | 51.8                 |
| 21"                                                         |           | 45.1                 |
| 24"                                                         |           | 39.9                 |
| 27"                                                         |           | 35.5                 |
| 30"                                                         |           | 31.9                 |

| DESIGN LOAD CAPACITY – PSF<br>WITH INTERMEDIATE HORIZONTALS |           |                      |
|-------------------------------------------------------------|-----------|----------------------|
| WINDOW DIMS.                                                |           | EXT. (+)<br>INT. (–) |
| WIDTH (W)                                                   | MULL SPAN |                      |
| 12"                                                         | 120"      | 71.6                 |
| 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                 |



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



FL #17720

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NARROW STEEL MULLION SYSTEM

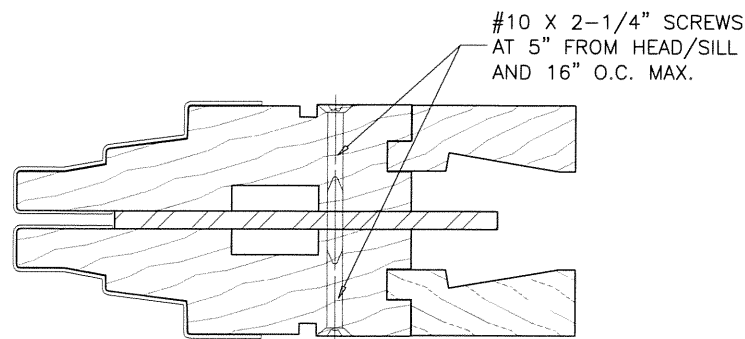
**ANDERSEN CORPORATION**  
100 FOURTH AVE. NORTH  
BAYPORT, MN. 55003-1096  
TEL. (800) 426-7691 FAX (-)

revisions:  
no date by description

date: 04-29-15  
scale: -  
dr. by: HAMID  
chk. by:

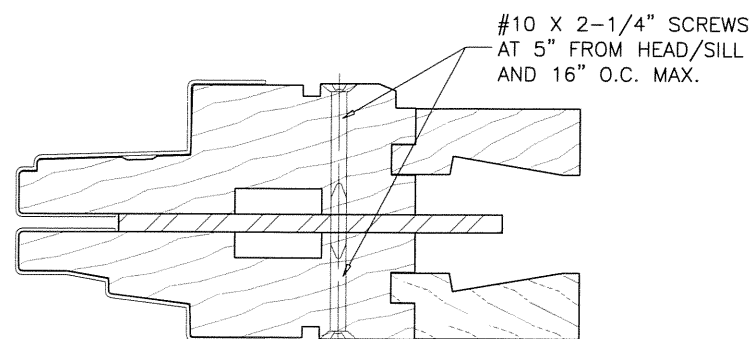
drawing no.  
**M15-03**  
sheet 5 of 11

MULLION\M15-03AC

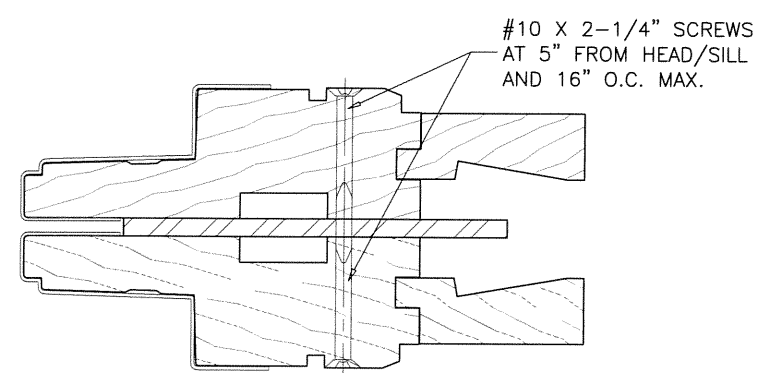


### CASEMENT TO CASEMENT VERTICAL JOIN

### AWNING TO AWNING HORIZONTAL JOIN

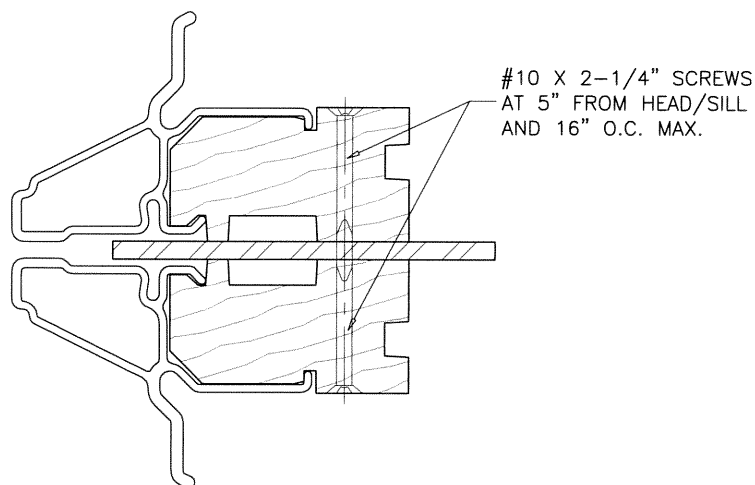


### CASEMENT TO AWNING VERTICAL OR HORIZONTAL JOIN

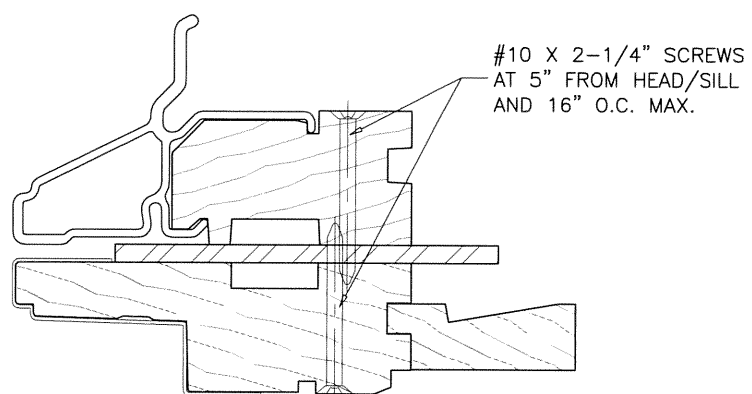


### CASEMENT TO CASEMENT HORIZONTAL JOIN

AWNING TO AWNING  
VERTICAL JOIN

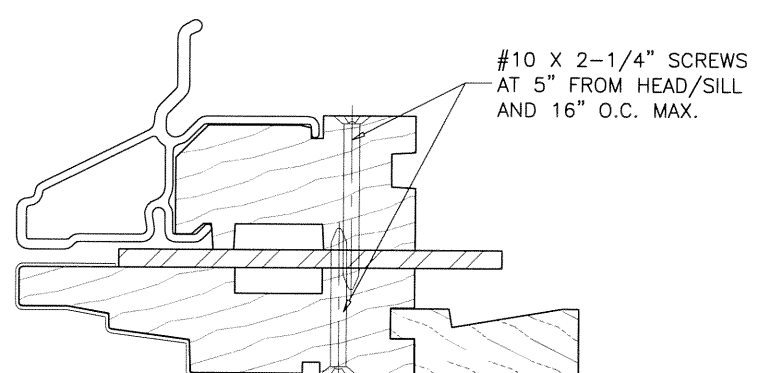


### FLEXIFRAME TO FLEXIFRAME VERTICAL OR HORIZONTAL JOIN



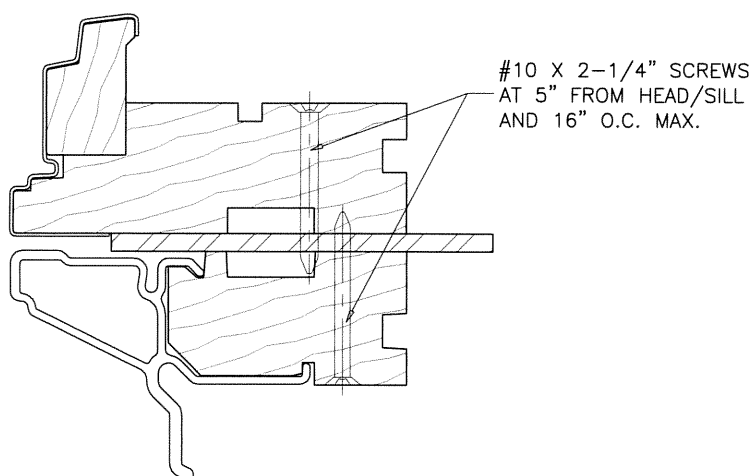
### CASEMENT TO FLEXIFRAME HORIZONTAL JOIN

### AWNING TO FLEXIFRAME VERTICAL JOIN

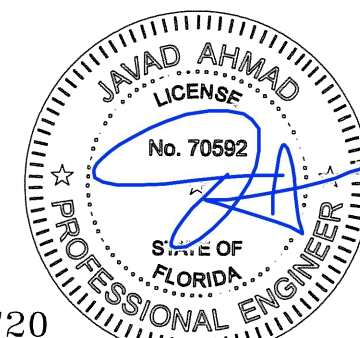


CASEMENT TO FLEXIFRAME  
VERTICAL JOIN

### AWNING TO FLEXIFRAME HORIZONTAL JOIN



FLEXIFRAME TO CIRCLE TOP/QUARTER  
VERTICAL OR HORIZONTAL JOIN



FL #17720

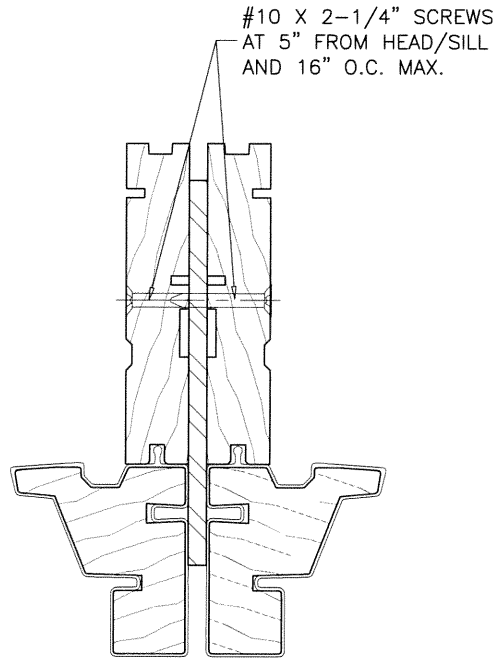
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**NARROW STEEL MULLION SYSTEM**

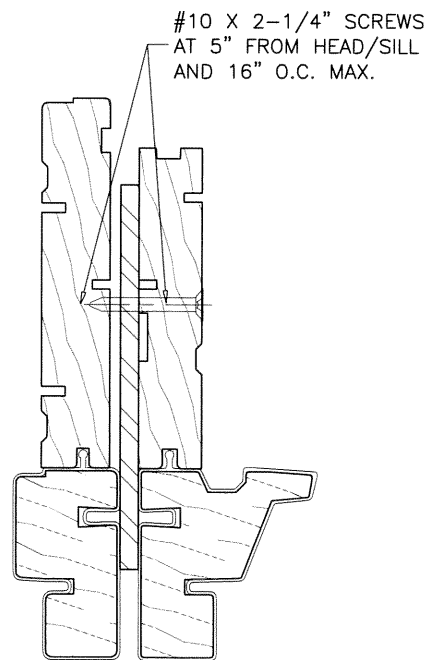
**ANDERSEN CORPORATION**  
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BAYPORT, MN. 55003-1096  
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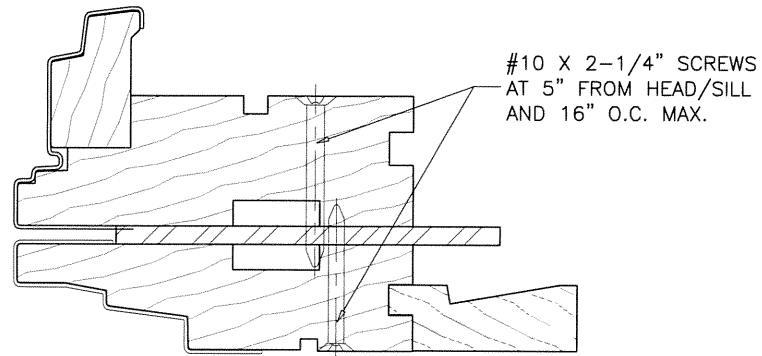


400 TWDH WDW TO 400 TWDH WDW  
VERTICAL JOIN

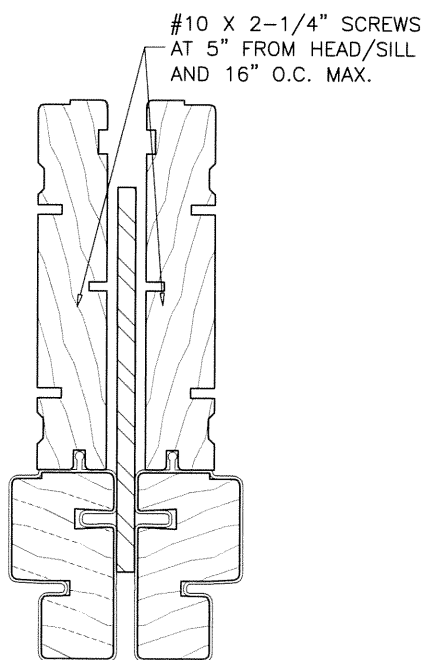
400 TWDH WDW TO 400 TWDH PICTURE WDW  
VERTICAL JOIN



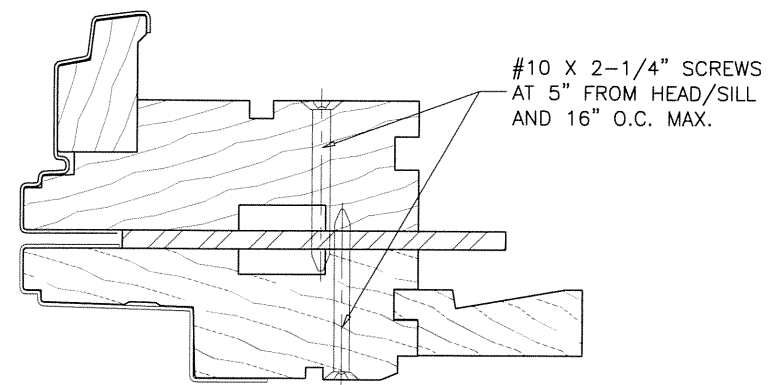
PSNL WDW TO 400 TWDH PICTURE WDW  
VERTICAL JOIN



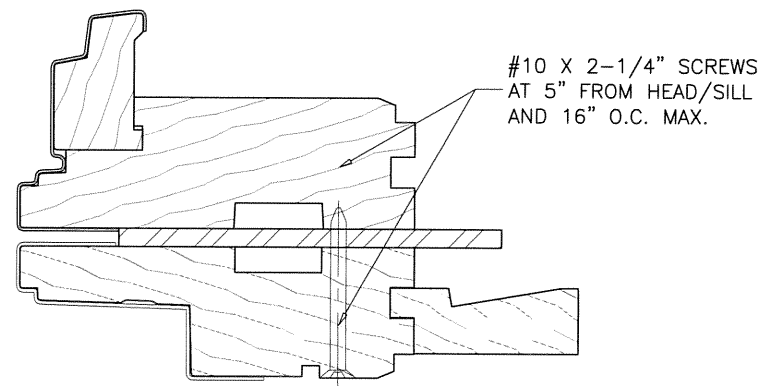
CIRCLE TOP TO AWNING  
HORIZONTAL JOIN



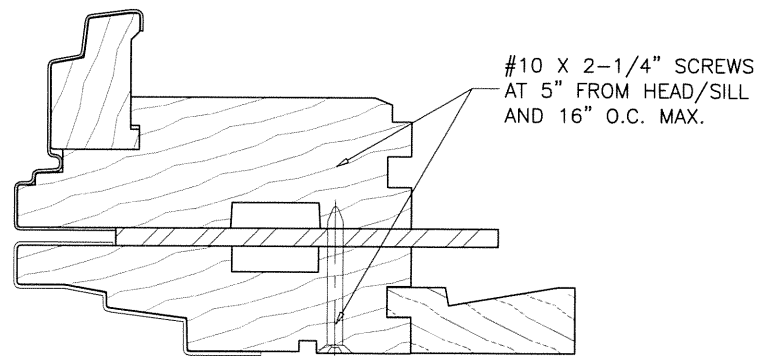
PSNL WDW TO PSNL WDW  
VERTICAL JOIN



CIRCLE TOP TO CASEMENT  
HORIZONTAL JOIN

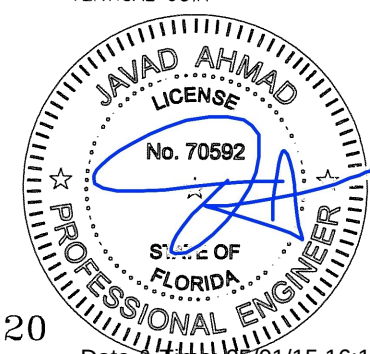


CASMT PICTURE WDW. TO CASEMENT  
HORIZONTAL JOIN



CASMT PICTURE WDW. TO AWNING  
HORIZONTAL JOIN

CASMT PICTURE WDW. TO CASEMENT  
VERTICAL JOIN



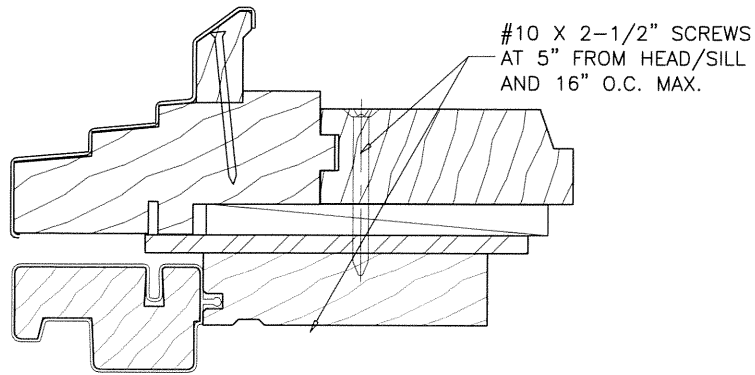
FL #17720

Date & Time: 05/01/15 16:15

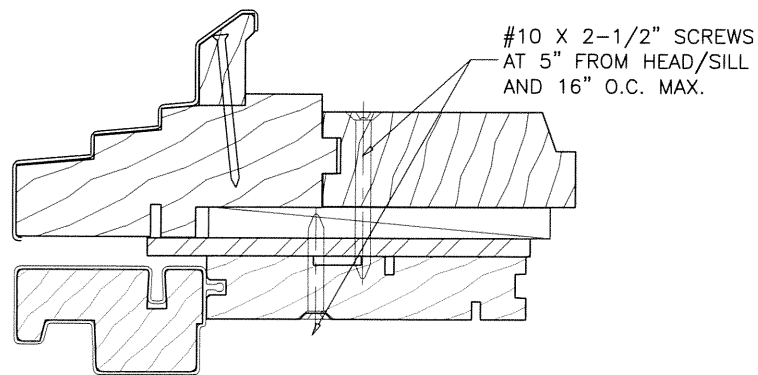
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**AL-FAROOQ CORPORATION**  
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 NARROW STEEL MULLION SYSTEM  
 ANDERSEN  
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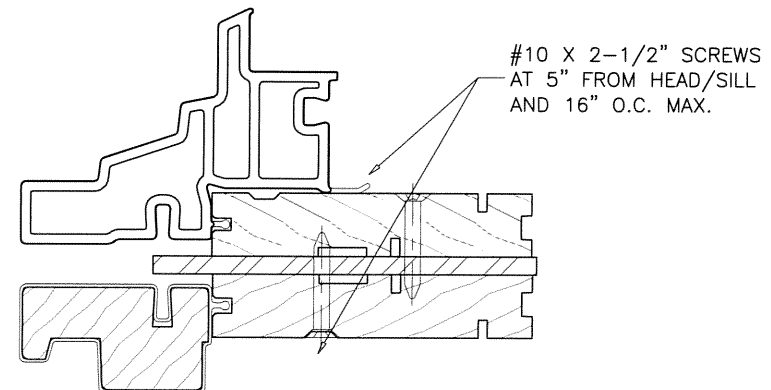
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| sheet 7 of 11  |                     |



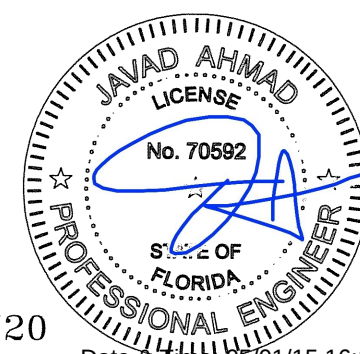
PSNL TO CIRCLE TOP--NL  
HORIZONTAL JOIN



400 TW TO CIRCLE TOP--NL  
HORIZONTAL JOIN



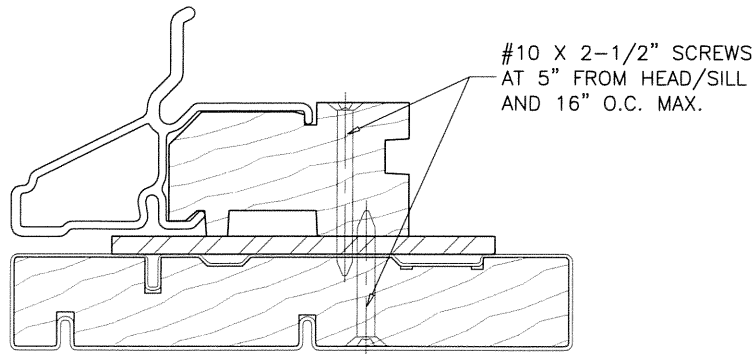
400 TW TO TW TRANSOM  
HORIZONTAL JOIN



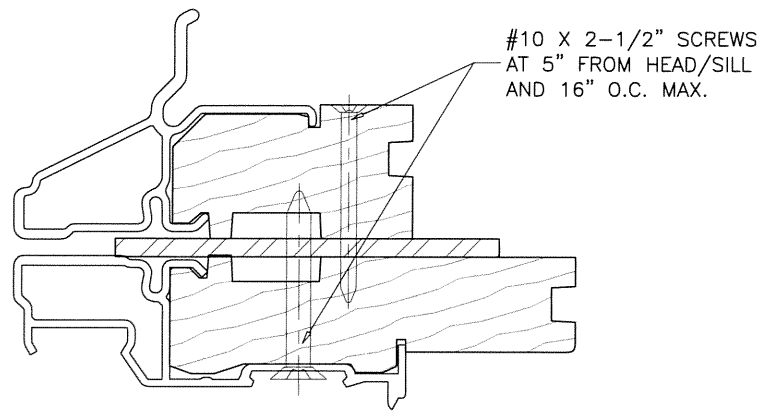
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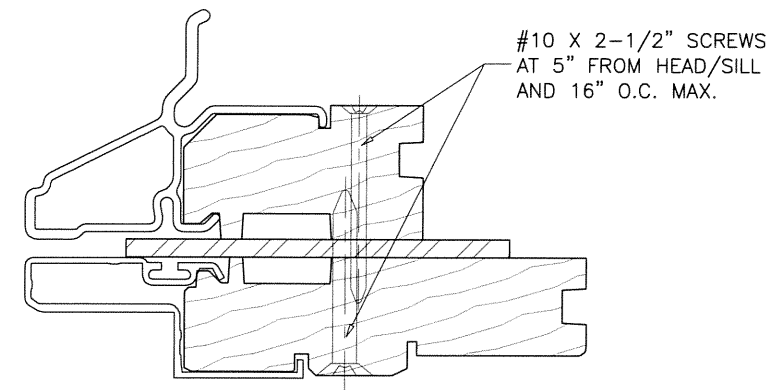
| <b>af c</b><br><b>AL-FAROOQ CORPORATION</b><br>ENGINEERS & PRODUCT DEVELOPMENT<br>1235 S.W. 87 AVE<br>MIAMI, FLORIDA 33174<br>TEL. (305) 264-8100 FAX. (305) 262-6978<br>MULLION\M15-03AC                                                                                                                                                                 |                                               |    |             |    |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|-------------|----|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| NARROW STEEL MULLION SYSTEM<br><b>ANDERSEN CORPORATION</b><br>100 FOURTH AVE. NORTH<br>BAYPORT, MN. 55003-1096<br>TEL. (800) 426-7691 FAX (-)                                                                                                                                                                                                             |                                               |    |             |    |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| date: 04-29-15<br>scale: 1/2" = 1"<br>dr. by: HAMID<br>chk. by:                                                                                                                                                                                                                                                                                           | drawing no.<br><b>M15-03</b><br>sheet 8 of 11 |    |             |    |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



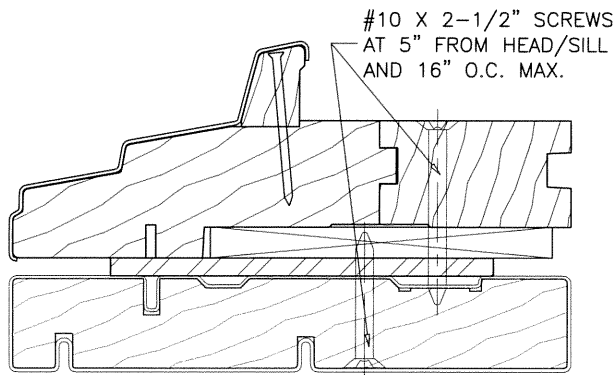
FLEXIFRAME/ARCH/SPRINGLINE TO FW GLIDING DOOR  
HORIZONTAL JOIN



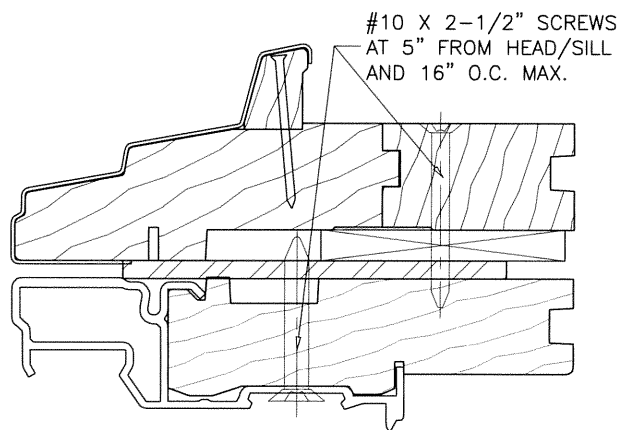
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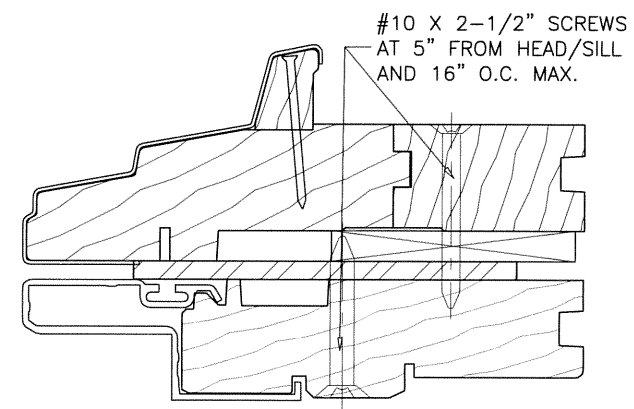
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR  
HORIZONTAL JOIN



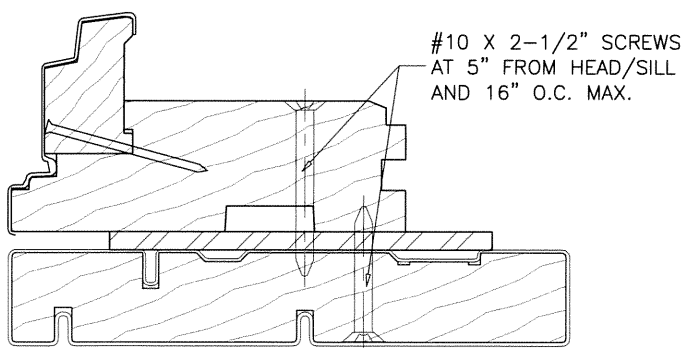
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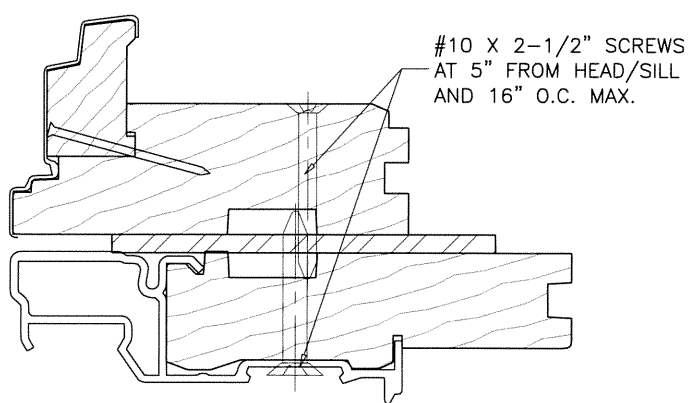
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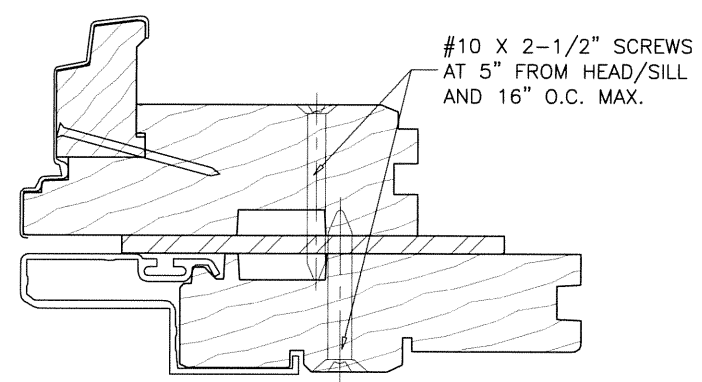
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR  
HORIZONTAL JOIN



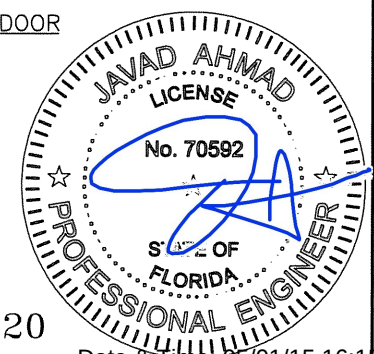
PSCA PICTURE WDW TO FW GLIDING DOOR  
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWH DOOR  
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWO DOOR  
HORIZONTAL JOIN



FL #17720

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**af c**  
**AL-FAROOQ CORPORATION**  
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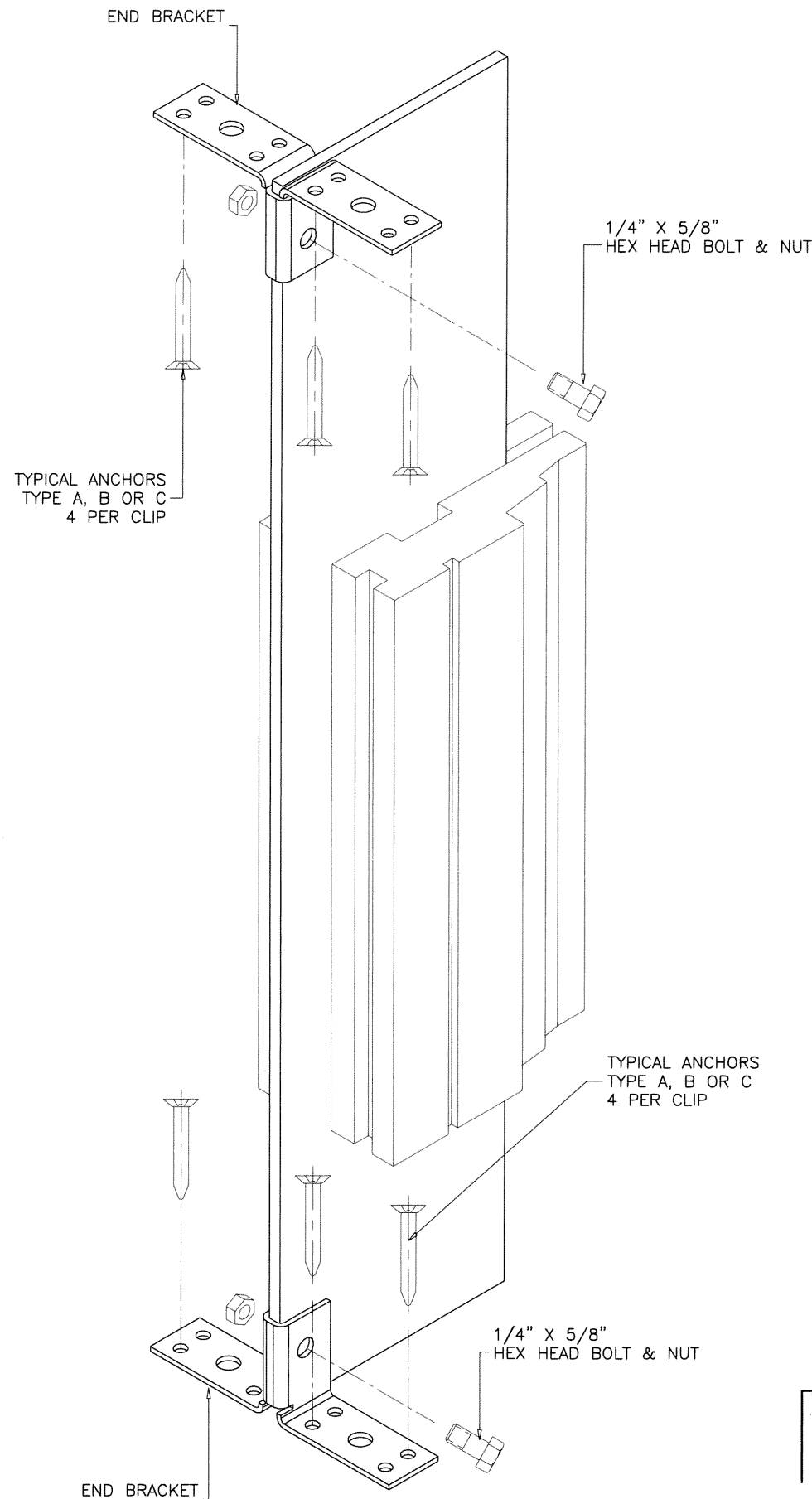
NARROW STEEL MULLION SYSTEM  
**ANDERSEN CORPORATION**  
100 FOURTH AVE. NORTH  
BAYPORT, MN. 55003-1096  
TEL. (800) 426-7691 FAX (-)  
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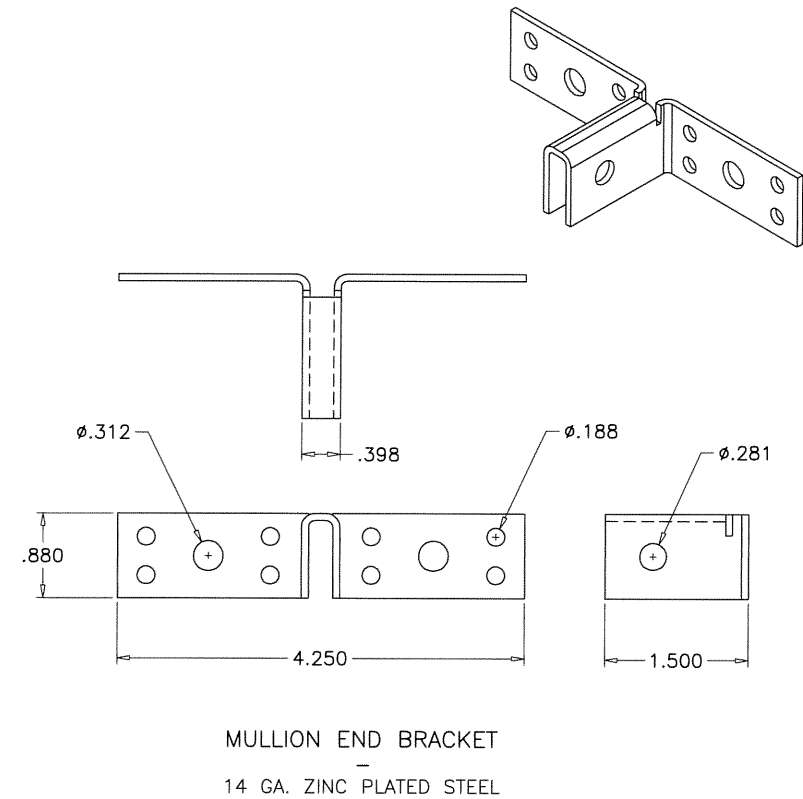
date: 04-29-15  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**M15-03**

sheet 9 of 11



**VERTICAL OR HORIZONTAL  
MULLION CONNECTION**



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

- TYPE 'A'— **#12 SMS OR WOOD SCREWS** (GRADE 2 CRS)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-3/8" MIN. PENETRATION INTO WOOD
- TYPE 'B'— **3/16" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)  
 THRU 1BY WOOD BUCKS INTO CONC. OR MASONRY  
 1-1/4" 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)

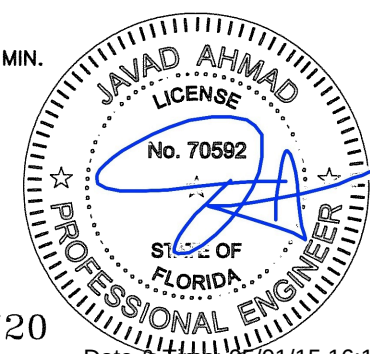
**TYPICAL EDGE DISTANCE**

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

**ANCHORS CL TO CL DISTANCES**

- INTO CONCRETE AND MASONRY = 1-3/16" 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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**af c**  
 MULLION M15-03AC

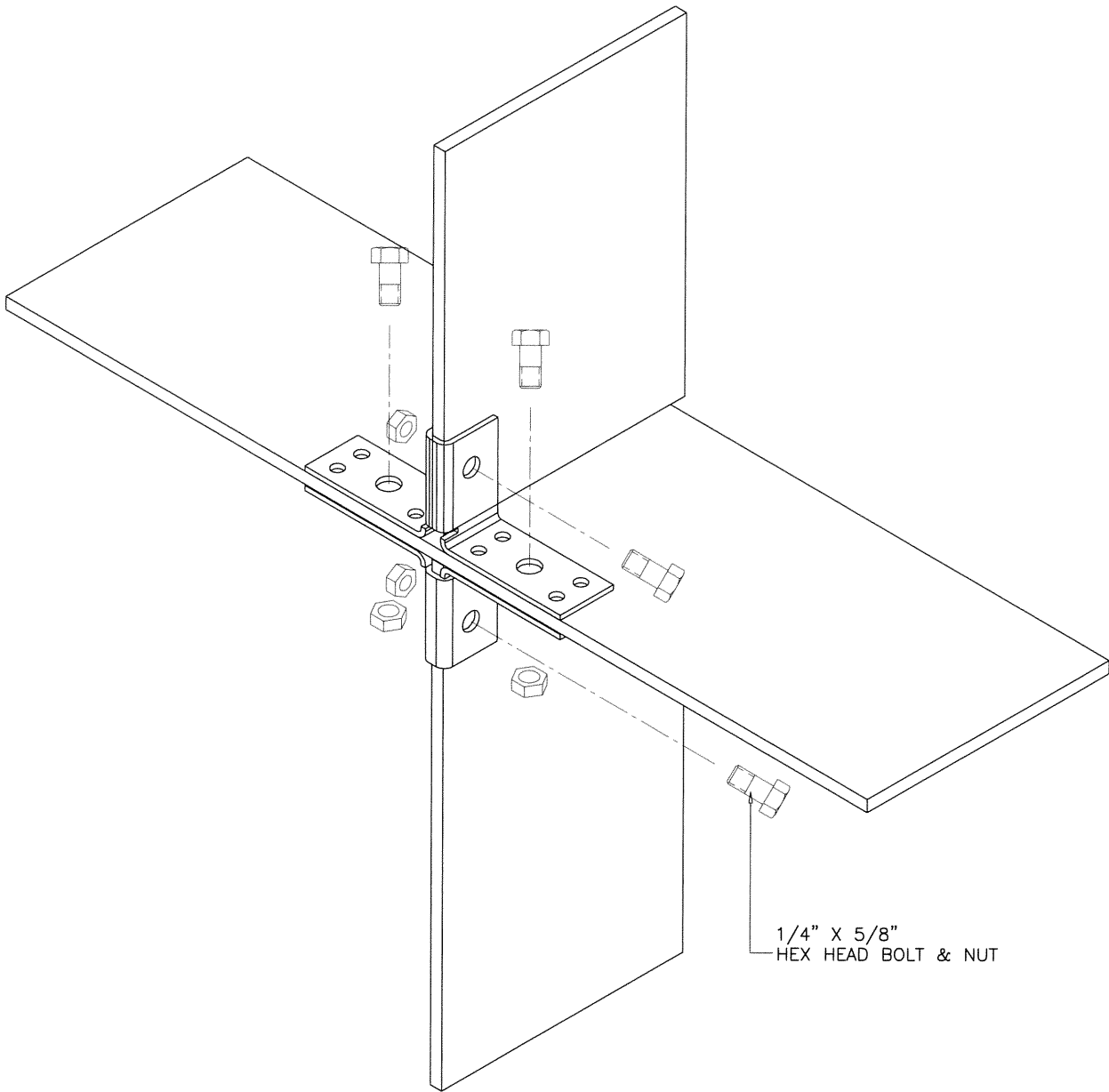
**ANDERSEN CORPORATION**  
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**NARROW STEEL MULLION SYSTEM**

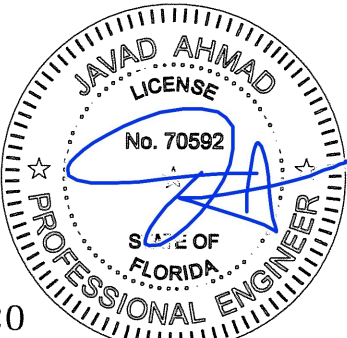
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date: 04-29-15  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**M15-03**  
 sheet 10 of 11



VERT. MULLION CONNECTION TO HORIZONTAL MULLION



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Date & Time: 05/01/15 16:16

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| drawing no.    |                  |    |             |
| M15-03         |                  |    |             |
| sheet 11 of 11 |                  |    |             |
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NARROW STEEL MULLION SYSTEM



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