

TYPICAL MULLION ARRANGEMENT

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.

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 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.

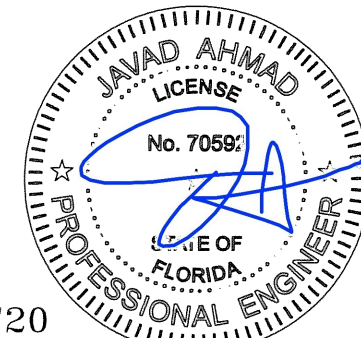
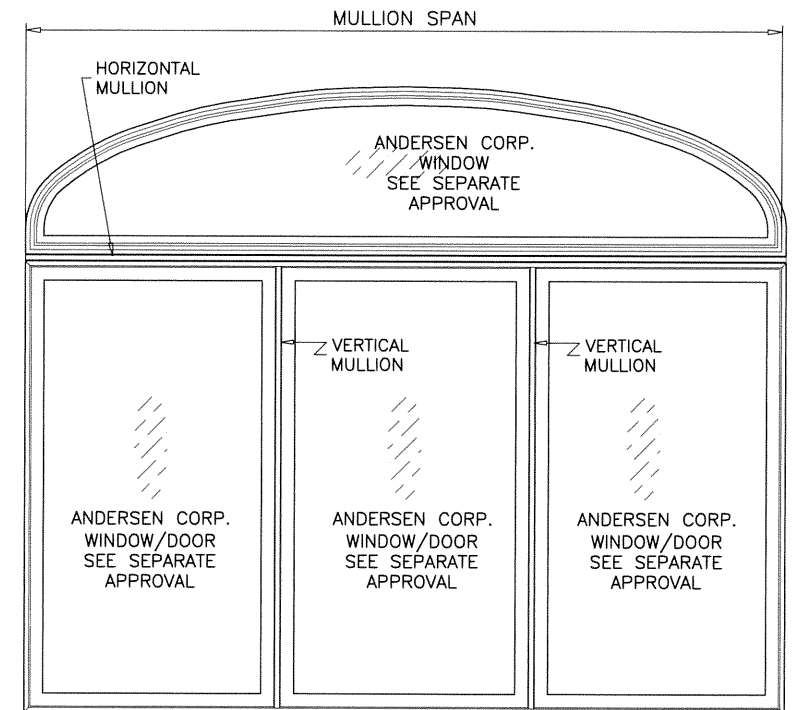
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

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.



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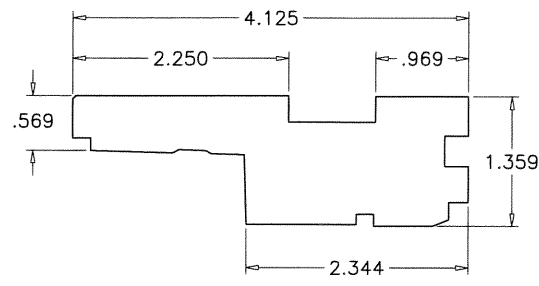
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 MULLION\M15-02AC

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

revisions:	no	date	by	description

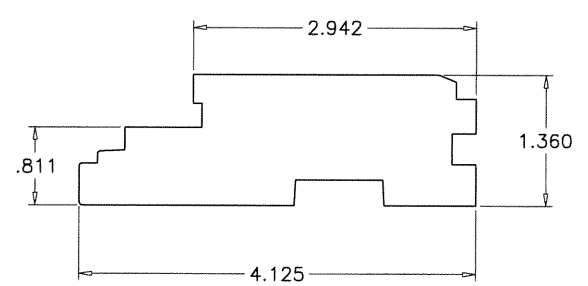
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 chk. by:

drawing no.
M15-02
 sheet 1 of 6

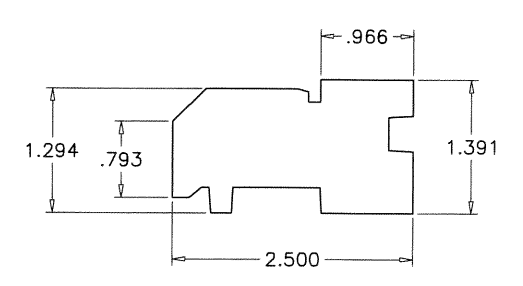


CASEMENT
FRAME HEAD/SILL
30835
WOOD

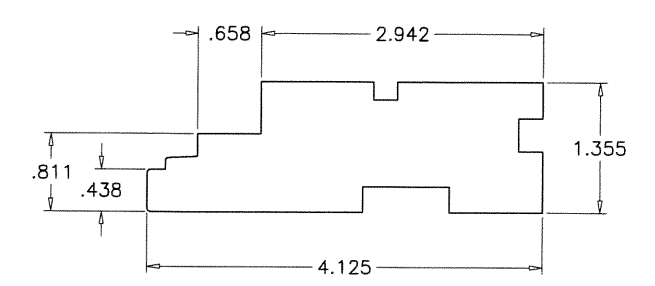
AWNING
FRAME JAMB
30836
WOOD



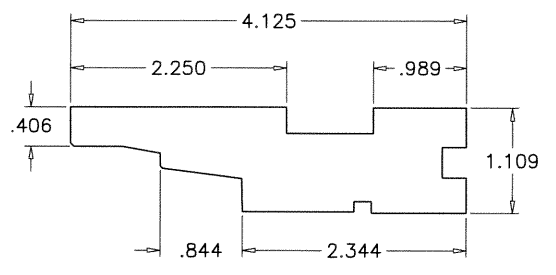
CASEMENT PICTURE
FRAME HEAD/SILL/JAMB
WOOD



FLEXIFRAME FIXED
FRAME HEAD/SILL/JAMB
WOOD

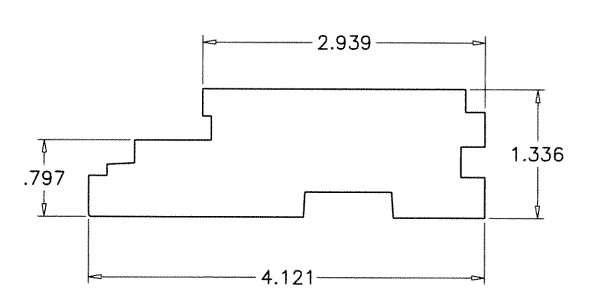


SPECIALITY DIRECT SET (CTC & CTQC)
FRAME SILL
27230
WOOD

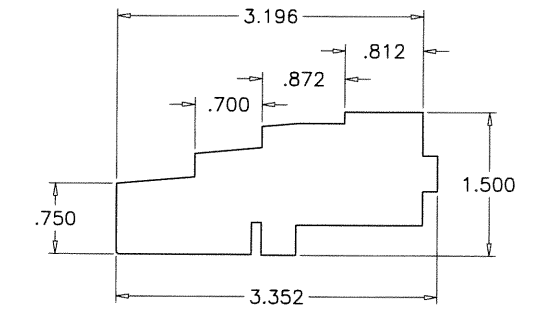


CASEMENT
FRAME JAMB
30838
WOOD

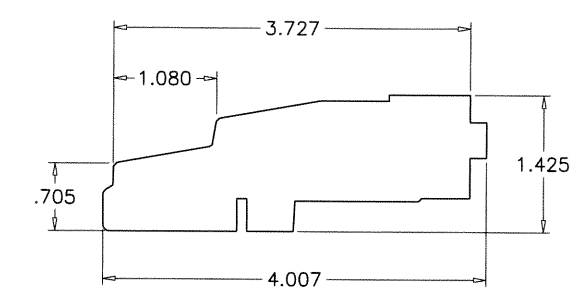
AWNING
FRAME HEAD/SILL
30838
WOOD



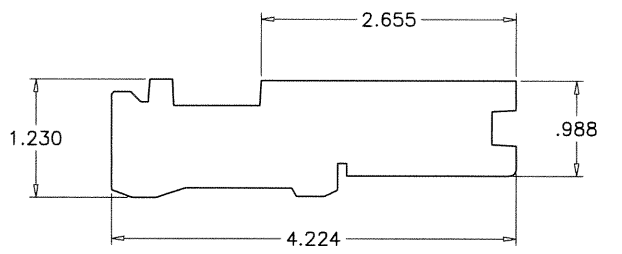
CASEMENT PICTURE (P)
FRAME HEAD/SILL/JAMB
30394
WOOD



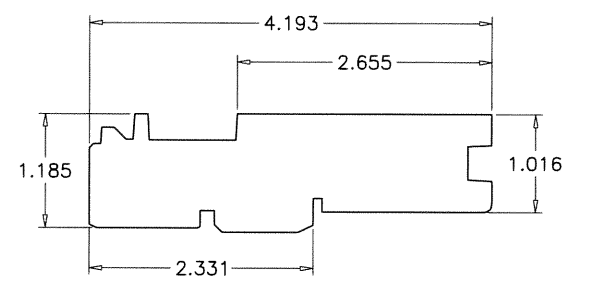
SPECIALITY DIRECT SET (CTN)
FRAME SILL
27122
WOOD



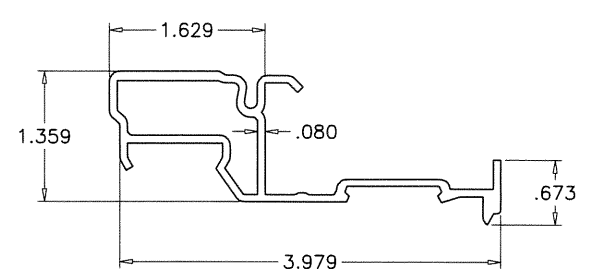
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FRAME SILL
53103
WOOD



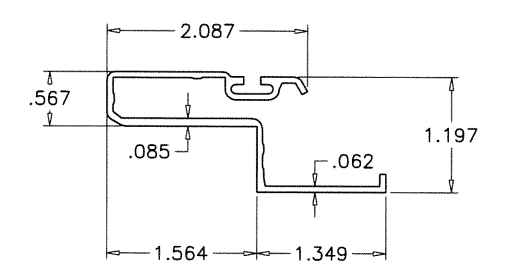
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



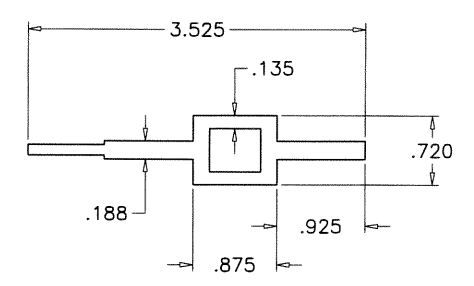
FWO
OUTSWING DOOR HEAD/JAMB (OPERATING/STATIONARY)
57019
WOOD



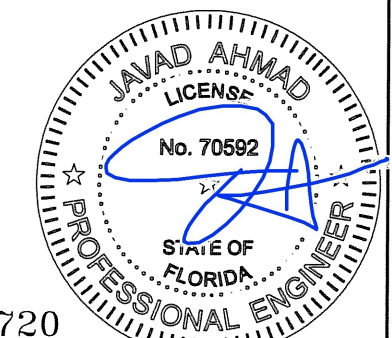
FWH
HINGED HEAD/JAMB COVER (OPERATING/STATIONARY)
52225
FIBERGLASS



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



NARROW ALUM MULLION
6061-T6



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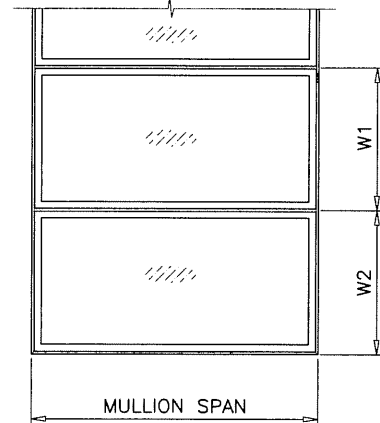
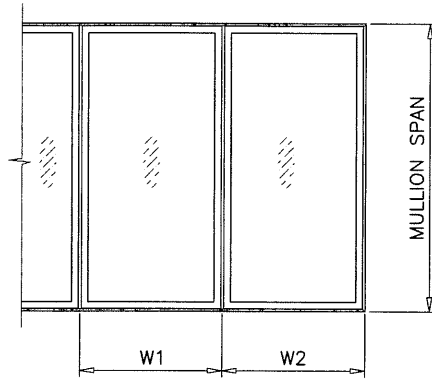
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M15-02

sheet 2 of 6

DESIGN LOAD CAPACITY - PSF W/O INTERMEDIATE HORIZONTALS		
WINDOW DIMS.		EXT. (+) INT. (-)
WIDTH (W)	MULLION 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"
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

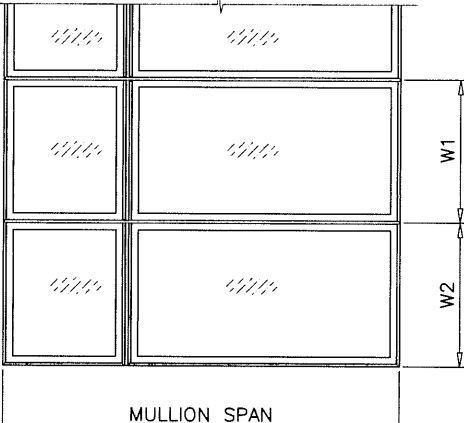
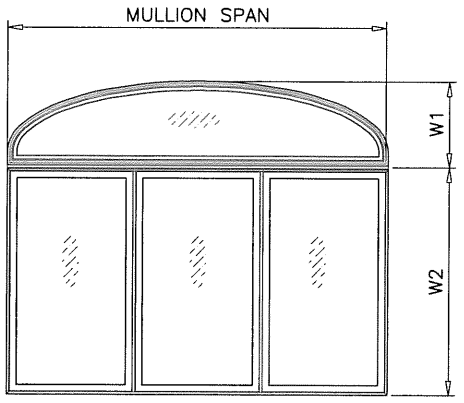
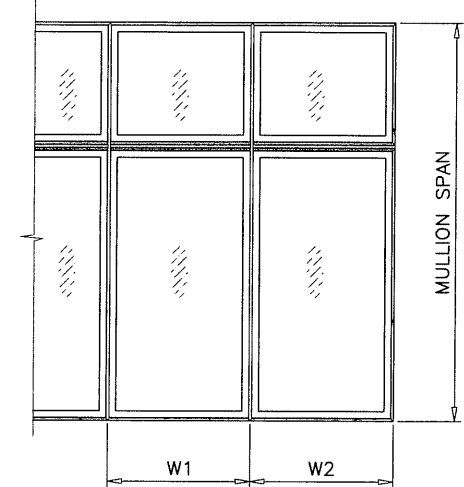
DESIGN LOAD CAPACITY - PSF W/O INTERMEDIATE HORIZONTALS		
WINDOW DIMS.		EXT. (+) INT. (-)
WIDTH (W)	MULLION SPAN	
12"	66"	100.0
15"		100.0
18"		100.0
21"		91.9
24"		82.7
27"		75.6
30"	70.0	
12"	72"	100.0
15"		100.0
18"		84.8
21"		73.4
24"		64.9
27"		58.4
12"	78"	98.6
15"		79.3
18"		66.5
21"		57.4
24"		50.7
12"		84"
15"	63.4	
18"	53.1	
21"	45.8	
24"	40.4	



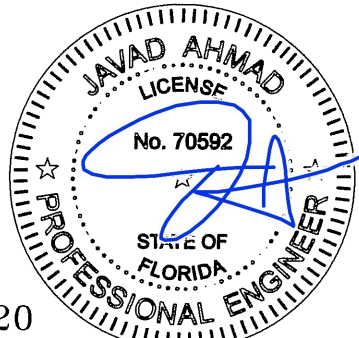
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULLION 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)	MULLION 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"
15"		40.8	
18"		34.0	
21"		29.1	
24"		25.5	



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



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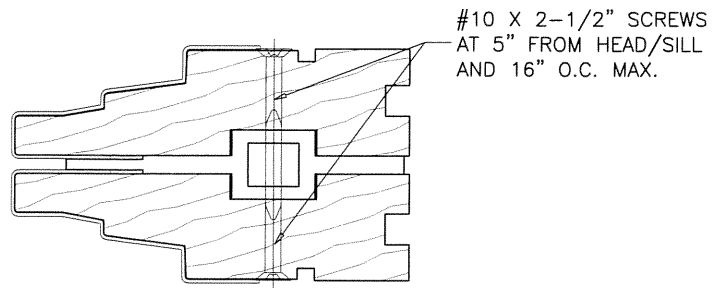
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REVISIONS:

no	date	by	description

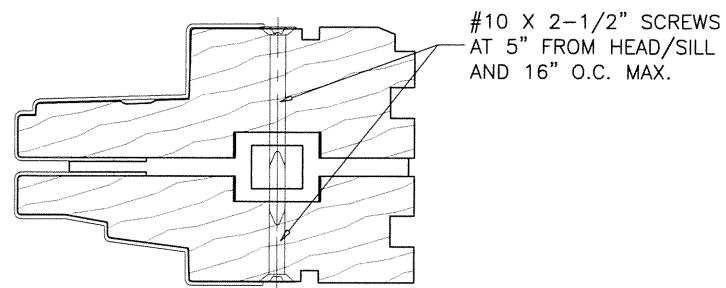
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M15-02
 sheet 3 of 6

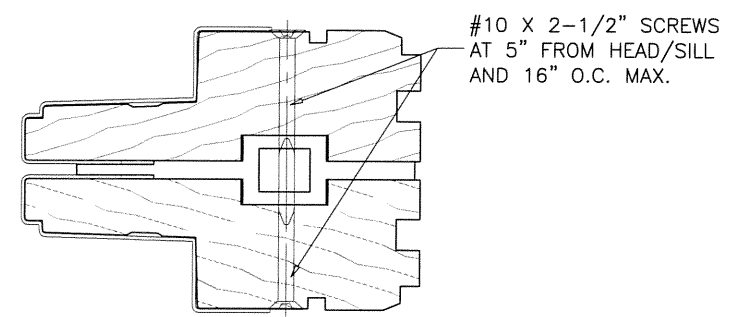


CASEMENT TO CASEMENT
VERTICAL JOIN

AWNING TO AWNING
HORIZONTAL JOIN

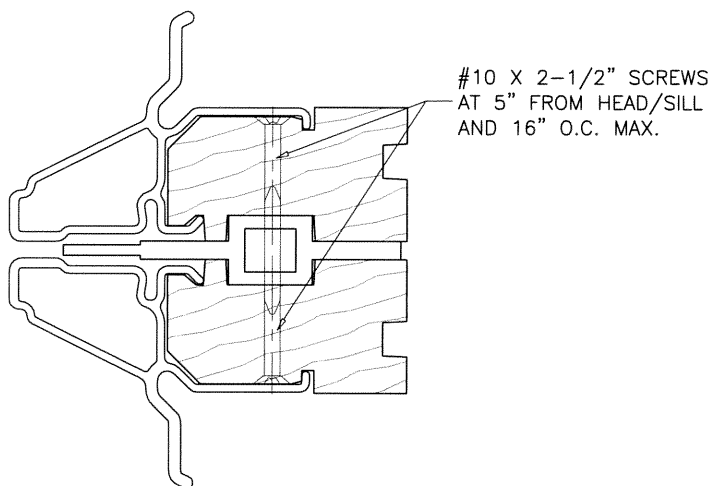


CASEMENT TO AWNING
VERTICAL OR HORIZONTAL JOIN

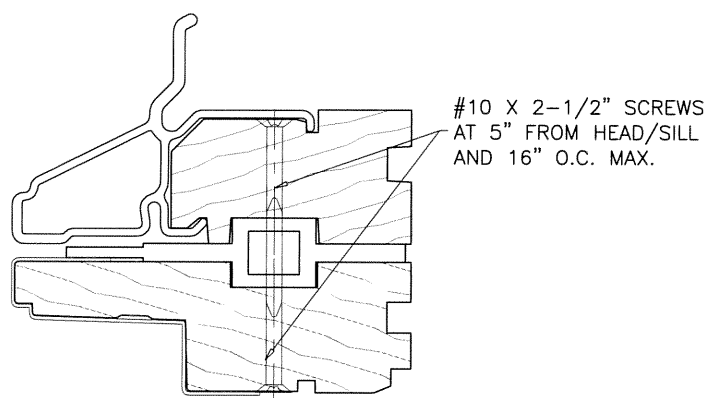


CASEMENT TO CASEMENT
HORIZONTAL JOIN

AWNING TO AWNING
VERTICAL JOIN

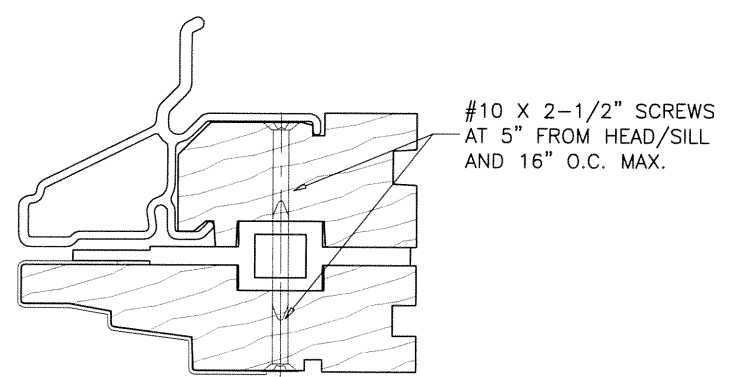


FLEXIFRAME TO FLEXIFRAME
VERTICAL OR HORIZONTAL JOIN



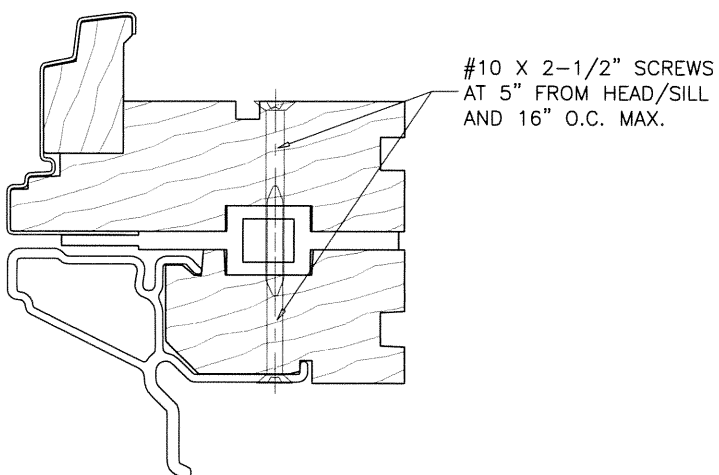
CASEMENT TO FLEXIFRAME
HORIZONTAL JOIN

AWNING TO FLEXIFRAME
VERTICAL JOIN

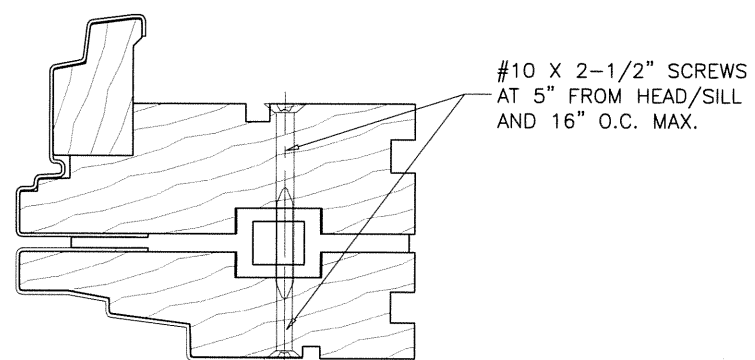


CASEMENT TO FLEXIFRAME
VERTICAL JOIN

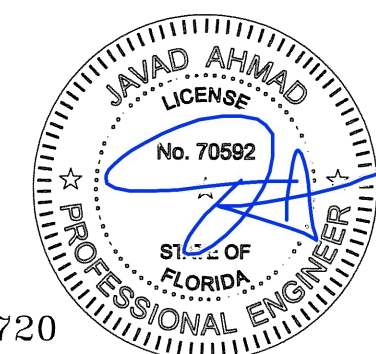
AWNING TO FLEXIFRAME
HORIZONTAL JOIN



FLEXIFRAME TO CIRCLE TOP/QUARTER
VERTICAL OR HORIZONTAL JOIN



CIRCLE TOP TO AWNING
HORIZONTAL JOIN



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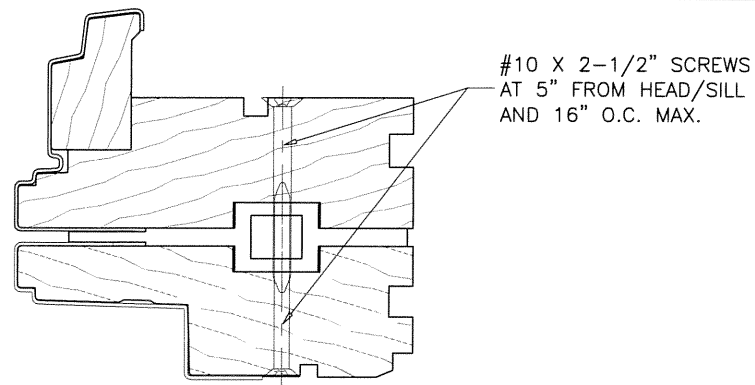
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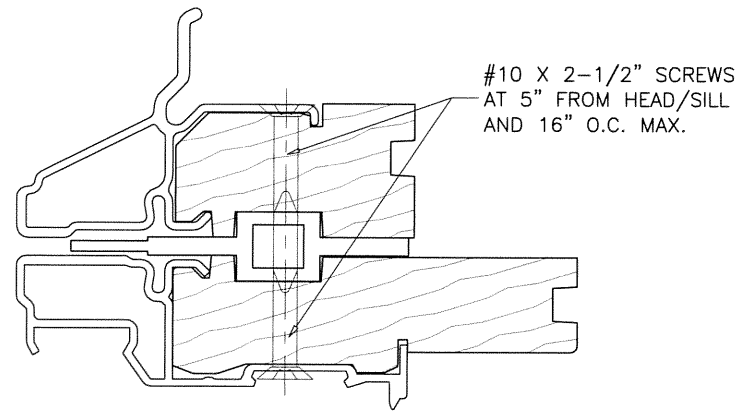
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date: 04-29-15
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chk. by:

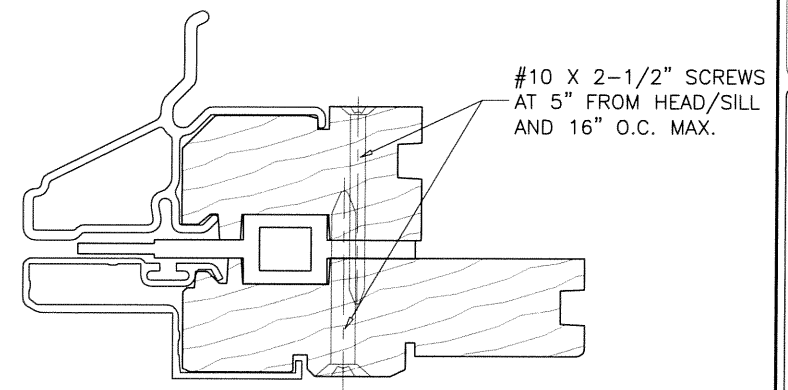
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M15-02
sheet 4 of 6



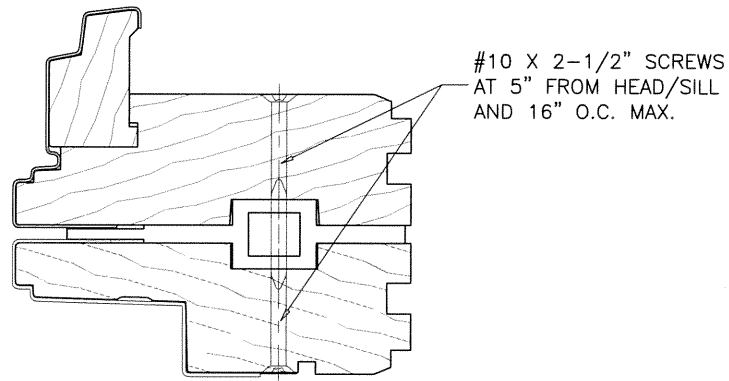
CIRCLE TOP TO CASEMENT
HORIZONTAL JOIN



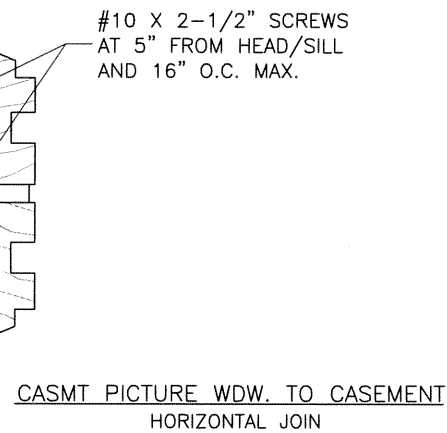
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



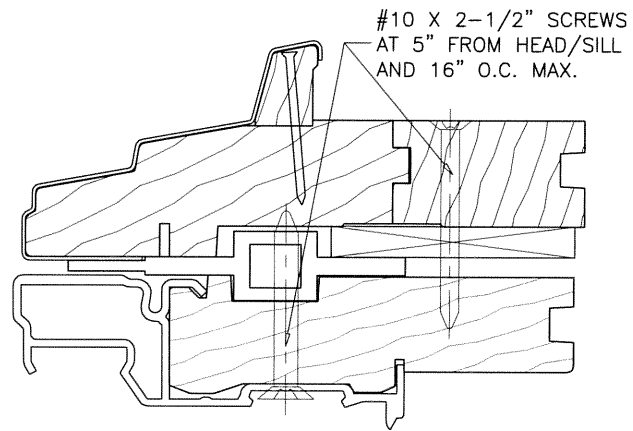
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



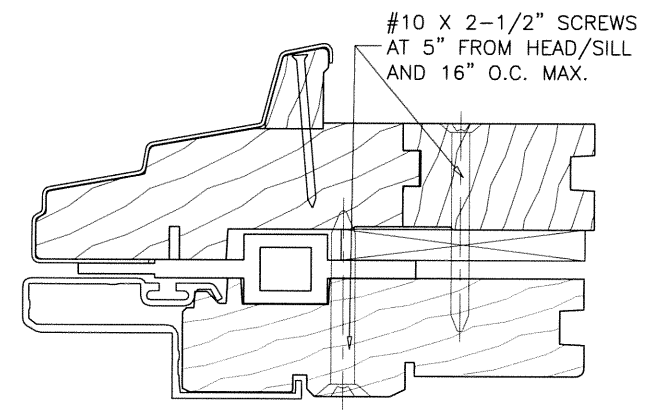
CASMT PICTURE WDW. TO AWNING
VERTICAL JOIN



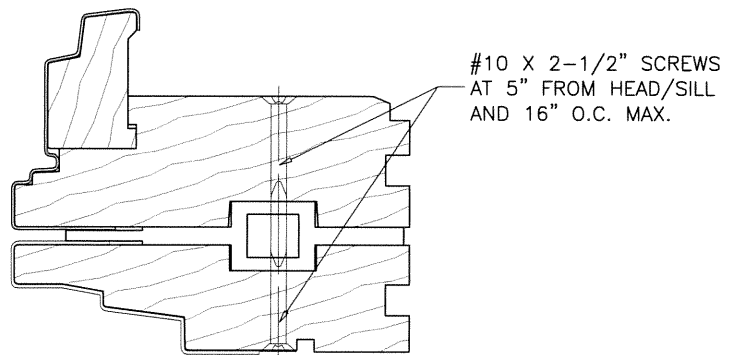
CASMT PICTURE WDW. TO CASEMENT
HORIZONTAL JOIN



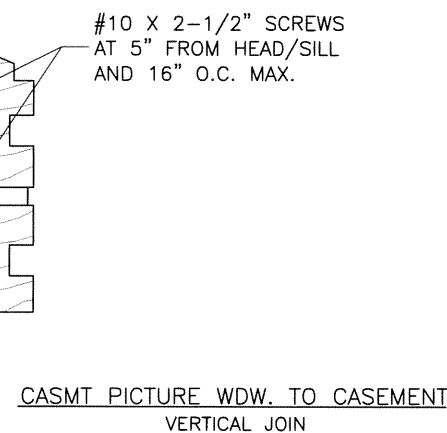
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



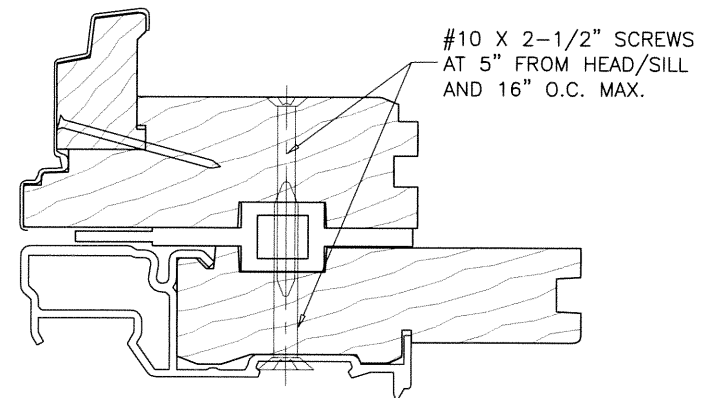
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



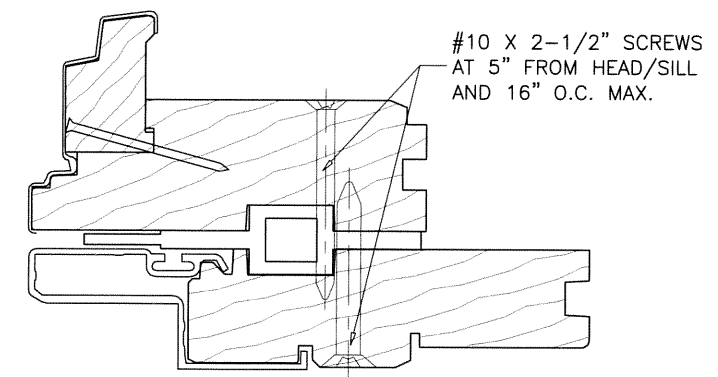
CASMT PICTURE WDW. TO AWNING
HORIZONTAL JOIN



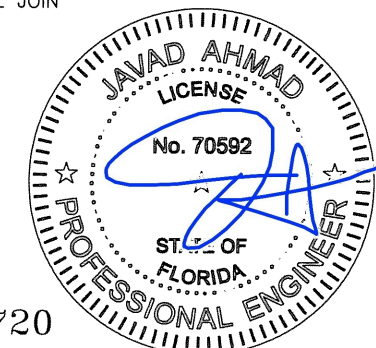
CASMT PICTURE WDW. TO CASEMENT
VERTICAL JOIN



PSCA PICTURE WDW TO FWH DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWO DOOR
HORIZONTAL JOIN



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MULLION\M15-02AC

NARROW ALUMINUM MULLION SYSTEM
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AW

revisions:	no	date	by	description

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

drawing no.
M15-02
sheet 5 of 6

