MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Andersen Corporation
100 Fourth Avenue North
Bayport, MN 55003

SCOPE:

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

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

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

DESCRIPTION: 4-9/16" & 6-9/16" Laminated Veneered Lumber (LVL) Clipped Wood Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **M05-01**, titled "Laminated Veneered Lumber Mullion System" Sheets 1 through 12, 12.1 and 13 of 13, dated 08/15/05, with revision D dated 05/13/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA **revises NOA# 12-0308.29** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

6/13/13

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M05-01**, titled "Laminated Veneered Lumber Mullion System" Sheets 1 through 12. 12.1 and 13 of 13, dated 08/15/05, with revision D dated 05/13/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

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

   along with marked-up drawings and installation diagram of six LVL structural mulled assemblies,(per Testing Proposal #06-0072), prepared by Architectural Testing, Inc. Test Report No. **ATI-65617.01-201-18**, dated 11/29/06, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA #07-1025.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 04/09/10 and revised on 11/14/12, prepared, signed and sealed by Javad Ahmad, P.E.
   (Submitted partially under previous NOA#10-0616.01)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

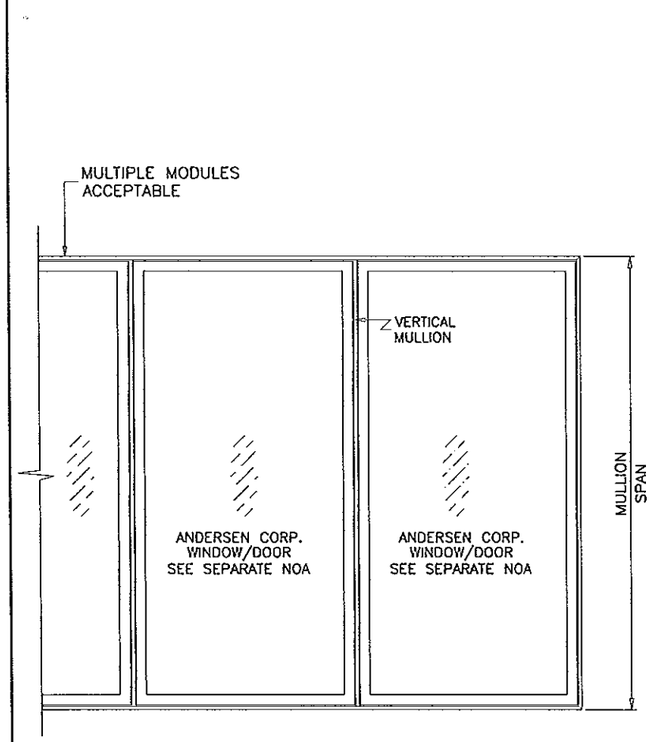
F. STATEMENTS

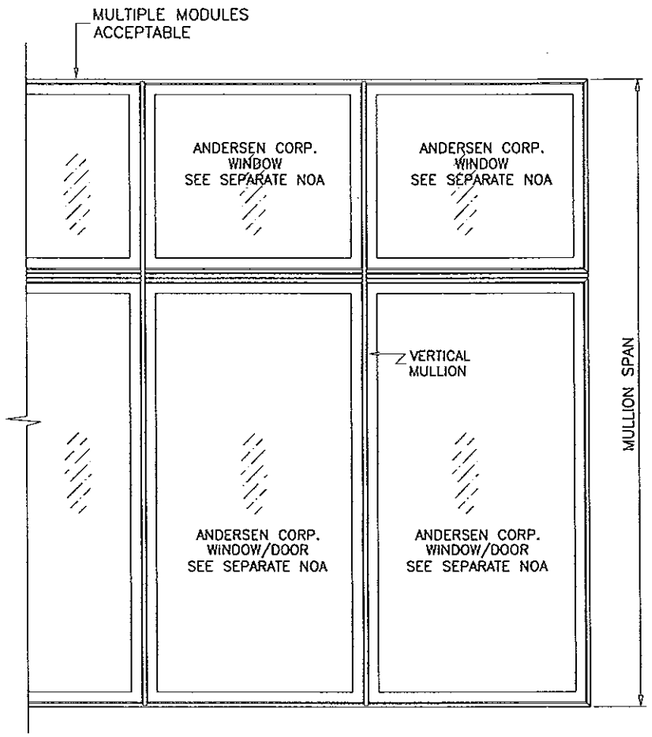
1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated September 19, 2012, signed and sealed by Javad Ahmad, P.E.

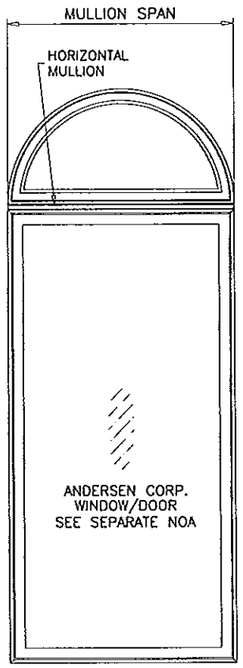
G. OTHERS

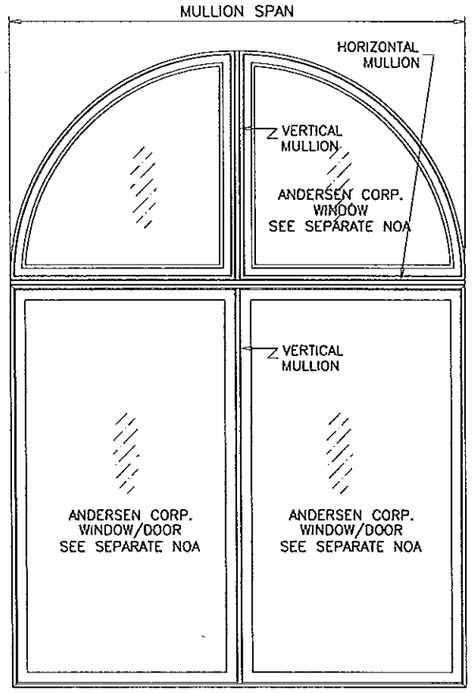
1. Notice of Acceptance No. **12-0308.29**, issued to Andersen Corporation for their 4-9/16" & 6-9/16" Laminated Veneered Lumber (LVL) Clipped Wood Mullion System – L.M.I., approved on 05/17/12 and expiring on 12/20/17.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0411.01
Expiration Date: December 20, 2017
Approval Date: June 20, 2013









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

LAMINATED VENEERED LUMBER (LVL) MULLION SYSTEM WINDOW FRAME MEMBERS INCLUDED IN PROPERTIES

DESIGN LOAD RATING FOR THIS MULLION TO BE AS PER CHARTS SHOWN ON SHEETS 5 AND 6.

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 NOA FOR WINDOW/DOOR ANCHORS AND DESIGN LOAD CAPACITY.

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

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

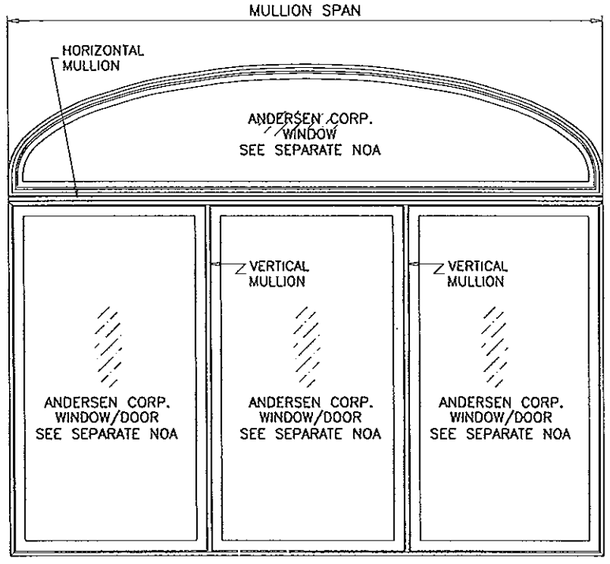
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

TYPICAL MULLION ARRANGEMENT

INDEX OF DRAWING

SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	WINDOW FRAME DETAILS
3	DOOR FRAME DETAILS
4	MULLION DETAILS
5	CHART FOR 4–9/16" & 6–9/16" MULLIONS WITHOUT HORIZONTALS
6	CHART FOR 4–9/16" & 6–9/16" MULLIONS WITH HORIZONTALS
7 THRU 10	DETAILS SHOWS VERTICAL AND HORIZONTAL MULLION CONNECTION WITH FRAME MEMBERS.
11	HORIZ./VERT. MULLION CONNECTION DETAILS WITH BRACKET
12	HORIZ./VERT. MULLION CONNECTION DETAILS WITH GUSSET PLATE
13	VERT. MULLION CONNECTION DETAIL TO HORIZ. MULLION



INSTRUCTIONS:

USE DRAWING AS FOLLOWS.

1. DETERMINE THE PRESSURE (LOAD) REQUIREMENTS FOR THE INSTALLATION USING ASCE 7 FOR THE OPENING.
2. DEPENDING ON THE 'TYPICAL MULLION ARRANGEMENT' ON SHEET 1, SELECT THE MULLION SPAN, TRIBUTARY WIDTH (W) AND MULLION SIZE 4–9/16" OR 6–9/16".
3. DEPENDING ON THE WINDOWS ARRANGEMENT AND SIZE OF MULLION, USING SHEETS 7 TO 10, SELECT THE GROUP NUMBER.
4. USING SHEETS 5 AND 6 DETERMINE THE DESIGN PRESSURE RATING, THE MULLION SELECTED MUST MEET OR EXCEED THE PRESSURE (LOAD) REQUIRED IN STEP 1.
5. USING SHEETS 7, 8, 9 AND 10 DETERMINE THE WINDOW TO MULLION ANCHOR.
6. USING SHEETS 11 AND 12, DETERMINE THE MULLION TO SUBSTRATE ANCHORS.
7. USING SHEET 13, DETERMINE MULLION TO MULLION ANCHORS.

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

MAY 20 2013

PRODUCT REVISED
as complying with the Florida
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Acceptance No 13-0411.01
Expiration Date Dec. 20, 2017
By
Miami Dade Product Control

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

MULLION \ M05–01AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

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

revisions:

no	date	by	description
A	04.16.10		UPDATED TO 2007 FBC
B	01.26.12		UPDATED TO 2010 FBC
C	11.15.12		GUSSET PLATE OPTION ADDED
D	05.13.13		REV. PER RER COMMENTS

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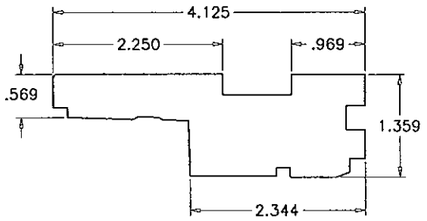
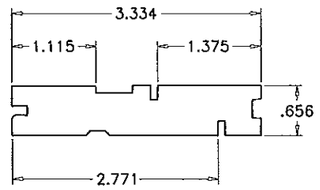
scale: 3/8"=1'–0"
dr. by: HAMID
chk. by:

drawing no.
M05–01

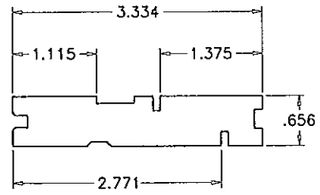


CASEMENT
FRAME HEAD/SILL
30835
WOOD

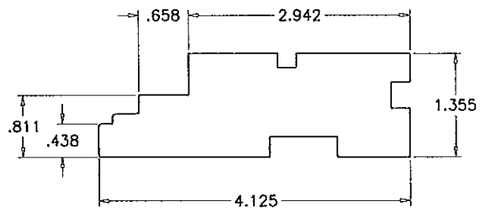
AWNING
FRAME JAMB
30836
WOOD



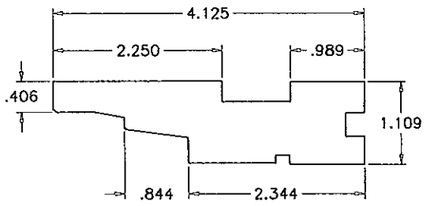
TILT-WASH DOUBLE HUNG
FRAME HEAD
–
WOOD



WOODWRIGHT DOUBLE HUNG
FRAME HEAD/JAMB
–
WOOD

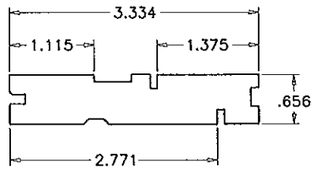


SPECIALITY DIRECT SET (CTC & CTQC)
FRAME SILL
27230
WOOD



CASEMENT
FRAME JAMB
30838
WOOD

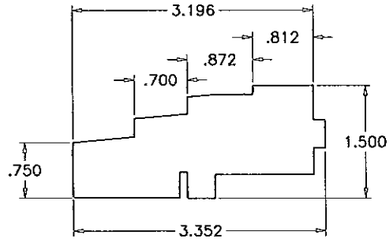
AWNING
FRAME HEAD/SILL
30838
WOOD



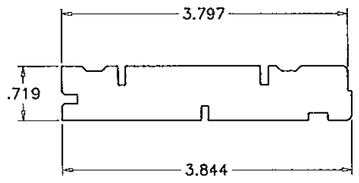
TILT-WASH DOUBLE HUNG
FRAME JAMB
–
WOOD

TILT-WASH FIXED
FRAME HEAD/SILL/JAMB
–
WOOD

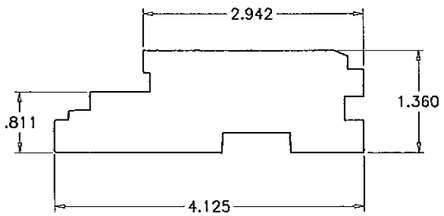
WOODWRIGHT FIXED
FRAME HEAD/SILL/JAMB
–
WOOD



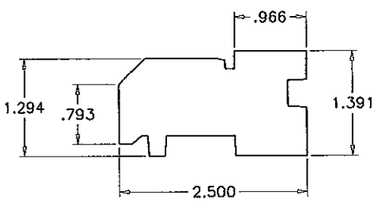
SPECIALITY DIRECT SET (CTN)
FRAME SILL
27122
WOOD



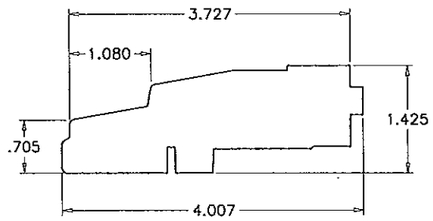
PSNL
FRAME HEAD/SILL/JAMB
–
WOOD



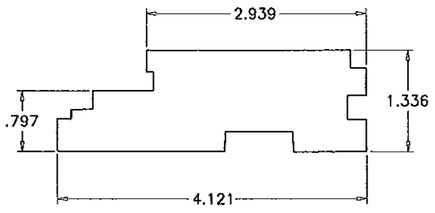
CASEMENT PICTURE
FRAME HEAD/SILL/JAMB
–
WOOD



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

MAY 20 2013

PRODUCT REVISED
as complying with the Florida Building Code
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Expiration Date Dec. 20, 2017
By Manuel Perez
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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MULLION\M05-01AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

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

revisions:		
no	date	by description
A	04.16.10	NO CHANGE THIS SHEET
B	01.26.12	NO CHANGE THIS SHEET
C	11.15.12	NO CHANGE THIS SHEET
D	05.13.13	NO CHANGE THIS SHEET

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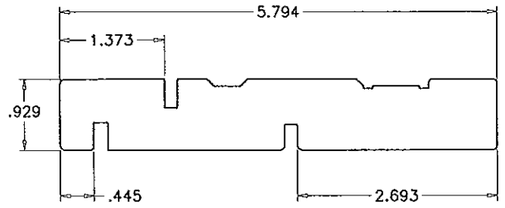
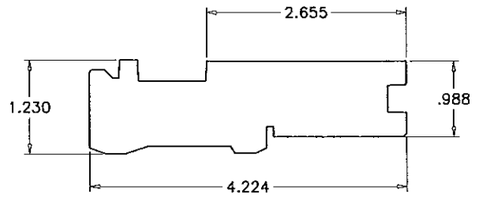
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

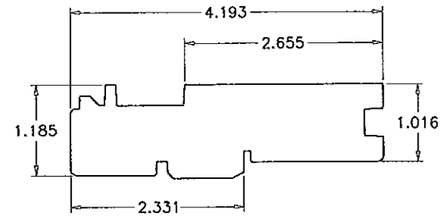
drawing no.
M05-01



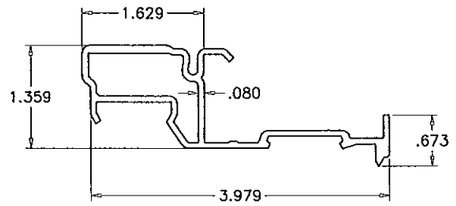
FWG
GLIDING DOOR FRAME HEAD
--
WOOD



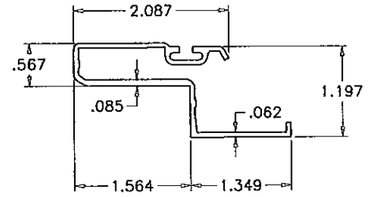
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



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

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MAY 20 2013

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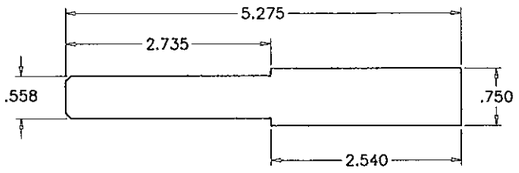
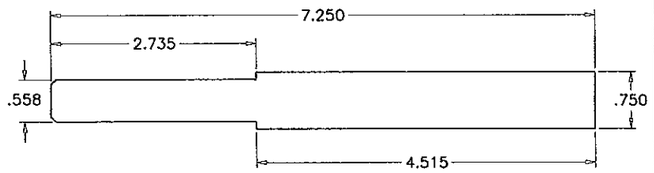


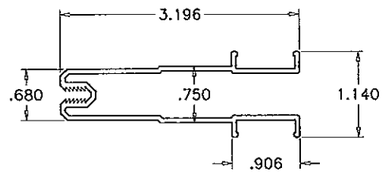
4-9/16" MULLION

LAMINATED VENEERED LUMBER



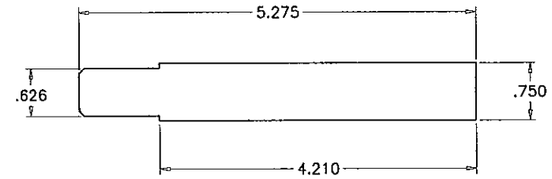
6-9/16" MULLION

LAMINATED VENEERED LUMBER



MULLION COVER

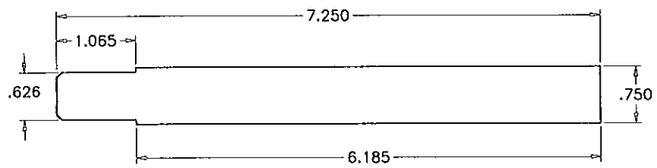
ALUMINUM



4-9/16" MULLION

29353

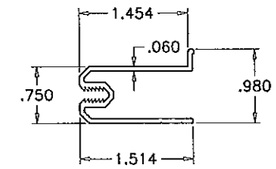
LAMINATED VENEERED LUMBER



6-9/16" MULLION

29434

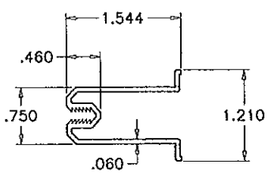
LAMINATED VENEERED LUMBER



MULLION COVER

29351

ALUMINUM



MULLION COVER

29351

ALUMINUM

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

MAY 20 2013

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-041.01
Expiration Date Dec. 20, 2017
By Manuel Perez
Miami-Dade Product Control

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

MULLION\M05-01AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

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

revisions:			
no	date	by	description
A	04.16.10		NO CHANGE THIS SHEET
B	01.26.12		NO CHANGE THIS SHEET
C	11.15.12		NO CHANGE THIS SHEET
D	05.13.13		NO CHANGE THIS SHEET

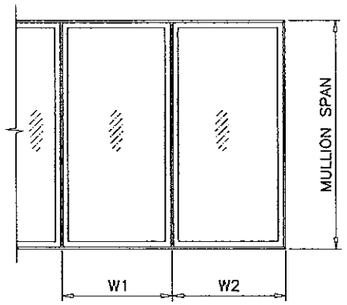
date: 08-15-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

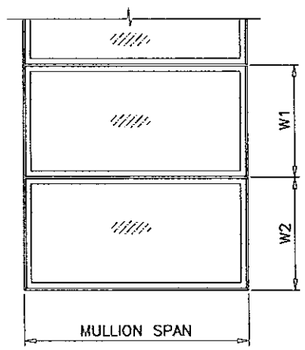
drawing no.
M05-01

sheet 4 of 13

DESIGN LOAD CAPACITY – PSF
4-9/16" MULLION

WINDOW DIMS.		W/O INTERMEDIATE HORIZONTALS			
WIDTH (W)	MULL SPAN	GROUP #1	GROUP #2	GROUP #3	GROUP #4
30"	48"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
51-3/8"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0
72"		70.0	70.0	70.0	70.0
30"	54"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
51-3/8"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		68.0	68.0	68.0	68.0
66"		61.8	61.8	61.8	61.8
72"		56.7	56.7	56.7	56.7
30"	60"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
51-3/8"		65.0	65.0	65.0	65.0
54"		61.5	61.5	61.5	61.5
60"		55.1	55.1	55.1	55.1
66"		50.1	50.1	50.1	50.1
72"		45.9	45.9	45.9	45.9
30"	66"	70.0	70.0	70.0	70.0
36"		67.4	70.0	70.0	70.0
42"		60.1	68.2	68.2	68.2
48"		55.3	58.6	58.6	58.6
51-3/8"		53.4	54.2	54.2	54.2
54"		51.3	51.3	51.3	51.3
60"		45.7	45.7	45.7	45.7
30"	72"	65.0	70.0	70.0	70.0
36"		55.6	63.3	69.4	69.4
42"		49.3	56.1	58.1	58.1
48"		44.9	49.8	49.8	49.8
51-3/8"		43.1	46.1	46.1	46.1
54"		41.9	43.6	43.6	43.6
60"		38.7	38.7	38.7	38.7
30"	78"	54.9	62.5	70.0	70.0
36"		46.8	53.2	59.9	59.9
42"		41.2	46.9	50.1	50.1
48"		37.3	42.5	43.0	43.0
51-3/8"		35.6	39.7	39.7	39.7
54"		34.5	37.5	37.5	37.5
30"	84"	47.0	53.5	64.2	64.2
36"		39.9	45.4	52.2	52.2
42"		35.0	39.9	43.7	43.7
48"		31.5	35.9	37.5	37.5
51-3/8"		30.0	34.1	34.6	34.6





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

DESIGN LOAD CAPACITY – PSF
6-9/16" MULLION

WINDOW DIMS.		W/O INTERMEDIATE HORIZONTALS				
WIDTH (W)	MULL SPAN	GROUP #5	GROUP #6	GROUP #7	GROUP #8	GROUP #9
24"	60"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0
66"		64.0	64.0	64.0	64.0	64.0
72"		58.7	58.7	58.7	58.7	58.7
24"	66"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0
60"		64.2	64.2	64.2	64.2	64.2
24"	72"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		69.9	69.9	69.9	69.9	69.9
54"		61.1	61.1	61.1	61.1	61.1
60"		54.3	54.3	54.3	54.3	54.3
24"	78"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		60.3	60.3	60.3	60.3	60.3
54"		52.6	52.6	52.6	52.6	52.6
24"	84"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		68.6	70.0	70.0	70.0	70.0
40"		62.7	64.9	64.9	64.9	64.9
42"		60.2	61.3	61.3	61.3	61.3
48"		52.6	52.6	52.6	52.6	52.6
24"	90"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		59.3	64.4	64.4	64.4	64.4
40"		54.1	57.1	57.1	57.1	57.1
42"		51.9	54.0	54.0	54.0	54.0
48"		46.3	46.3	46.3	46.3	46.3
24"	96"	70.0	70.0	70.0	70.0	70.0
30"		61.2	70.0	70.0	70.0	70.0
36"		51.8	57.1	57.1	57.1	57.1
40"		47.1	50.6	50.6	50.6	50.6
42"		45.2	47.9	47.9	47.9	47.9
45"		42.2	44.7	44.7	44.7	44.7

DESIGN LOAD CAPACITY – PSF
6-9/16" MULLION

WINDOW DIMS.		W/O INTERMEDIATE HORIZONTALS				
WIDTH (W)	MULL SPAN	GROUP #5	GROUP #6	GROUP #7	GROUP #8	GROUP #9
24"	102"	66.9	70.0	70.0	70.0	70.0
30"		54.1	61.9	62.6	62.6	62.6
36"		45.6	51.0	51.0	51.0	51.0
40"		41.5	45.2	45.2	45.2	45.2
42"		39.7	42.8	42.8	42.8	42.8
24"	108"	59.6	68.2	70.0	70.0	70.0
30"		48.1	55.0	56.2	56.2	56.2
36"		40.5	45.8	45.8	45.8	45.8
40"		36.8	40.7	40.7	40.7	40.7

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
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D	05.13.13		NO CHANGE THIS SHEET

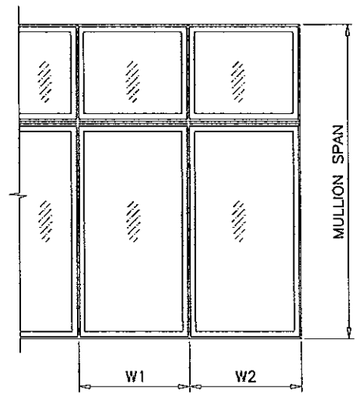
date: 08-15-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

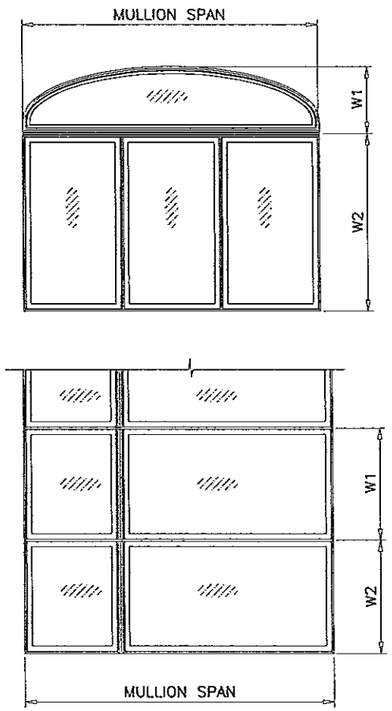
drawing no.
M05-01

sheet 5 of 13

DESIGN LOAD CAPACITY – PSF
4-9/16" MULLION

WINDOW DIMS.		WITH INTERMEDIATE HORIZONTALS			
WIDTH (W)	MULL SPAN	GROUP #1	GROUP #2	GROUP #3	GROUP #4
30"	48"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
51-3/8"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		69.0	70.0	70.0	70.0
66"		62.7	70.0	70.0	70.0
72"		57.5	65.4	70.0	70.0
30"	54"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		68.1	70.0	70.0	70.0
51-3/8"		63.7	70.0	70.0	70.0
54"		60.6	68.9	70.0	70.0
60"		54.5	62.0	70.0	70.0
66"		49.6	56.4	70.0	70.0
72"		45.4	51.7	64.8	65.2
30"	60"	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		63.1	70.0	70.0	70.0
48"		55.2	62.8	70.0	70.0
51-3/8"		51.6	58.7	70.0	70.0
54"		49.1	55.8	70.0	70.0
60"		44.2	50.3	63.0	70.0
66"		40.1	45.7	57.2	64.0
72"		36.8	41.9	52.5	58.7
30"	66"	70.0	70.0	70.0	70.0
36"		60.8	69.2	70.0	70.0
42"		52.1	59.3	70.0	70.0
48"		45.6	51.9	65.0	70.0
51-3/8"		42.6	48.5	60.8	70.0
54"		40.5	46.2	57.8	67.5
60"		36.5	41.5	52.0	60.7
30"	72"	61.3	69.8	70.0	70.0
36"		51.1	58.2	70.0	70.0
42"		43.8	49.9	62.5	70.0
48"		38.3	43.6	54.7	63.8
51-3/8"		35.8	40.8	51.1	59.6
54"		34.1	38.8	48.6	56.7
60"		30.7	34.9	43.7	51.0
30"	78"	52.3	59.5	70.0	70.0
36"		43.5	49.6	62.1	70.0
42"		37.3	42.5	53.2	62.1
48"		32.7	37.2	46.6	54.3
51-3/8"		30.5	34.7	43.5	50.8
54"		29.0	33.0	41.4	48.3
30"	84"	45.1	51.3	64.3	70.0
36"		37.5	42.7	53.5	60.6
42"		32.2	36.6	45.9	51.9
48"		28.2	32.1	40.2	45.4
51-3/8"		26.3	29.9	37.5	42.4





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

DESIGN LOAD CAPACITY – PSF
6-9/16" MULLION

WINDOW DIMS.		WITH INTERMEDIATE HORIZONTALS				
WIDTH (W)	MULL SPAN	GROUP #5	GROUP #6	GROUP #7	GROUP #8	GROUP #9
24"	60"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0
66"		64.0	64.0	64.0	64.0	64.0
72"		58.7	–	–	–	–
24"	66"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0
54"		69.7	70.0	70.0	70.0	70.0
60"		62.7	64.0	64.0	64.0	64.0
24"	72"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0
48"		65.9	70.0	70.0	70.0	70.0
54"		58.6	65.2	65.2	65.2	65.2
60"		52.7	58.7	58.7	--	–
24"	78"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0
40"		67.4	70.0	70.0	70.0	70.0
42"		64.2	70.0	70.0	70.0	70.0
48"		56.1	64.3	67.7	67.7	67.7
54"		49.9	57.1	60.2	--	–
24"	84"	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0
36"		64.5	70.0	70.0	70.0	70.0
40"		58.1	66.5	70.0	70.0	70.0
42"		55.3	63.3	69.8	70.0	70.0
48"		48.4	55.4	61.1	62.9	62.9
24"	90"	70.0	70.0	70.0	70.0	70.0
30"		67.5	70.0	70.0	70.0	70.0
36"		56.2	64.4	70.0	70.0	70.0
40"		50.6	57.9	63.8	68.7	68.7
42"		48.2	55.2	60.8	65.4	65.4
48"		42.2	48.3	53.2	57.2	57.2
24"	96"	70.0	70.0	70.0	70.0	70.0
30"		59.3	67.9	70.0	70.0	70.0
36"		49.4	56.6	62.3	67.0	67.1
40"		44.5	50.9	56.1	60.3	60.4
42"		42.4	48.5	53.4	57.5	57.5
45"		39.6	45.3	49.8	53.6	53.6

DESIGN LOAD CAPACITY – PSF
6-9/16" MULLION

WINDOW DIMS.		WITH INTERMEDIATE HORIZONTALS				
WIDTH (W)	MULL SPAN	GROUP #5	GROUP #6	GROUP #7	GROUP #8	GROUP #9
24"	102"	65.7	70.0	70.0	70.0	70.0
30"		52.5	60.1	66.3	70.0	70.0
36"		43.8	50.1	55.2	59.4	59.4
40"		39.4	45.1	49.7	53.5	53.5
42"		37.5	42.9	47.3	50.9	50.9
24"	108"	58.6	67.0	70.0	70.0	70.0
30"		46.8	53.6	59.1	62.5	62.5
36"		39.0	44.7	49.3	52.1	52.1
40"		35.1	40.2	44.3	46.9	46.9

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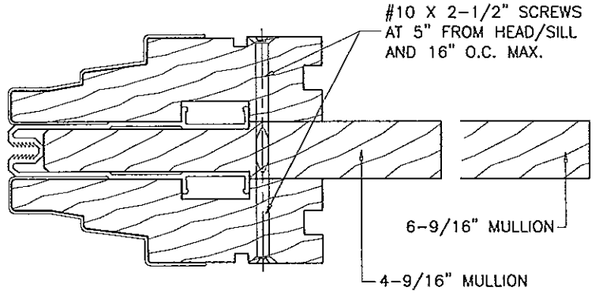
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

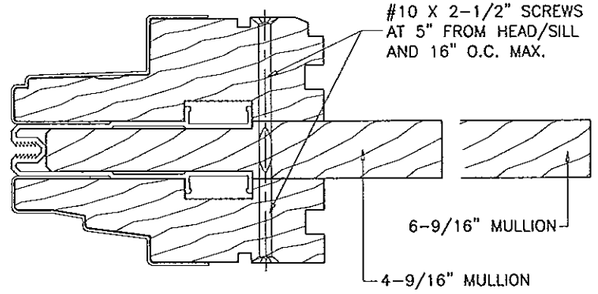
drawing no.
M05-01



CASEMENT TO CASEMENT
VERTICAL JOIN

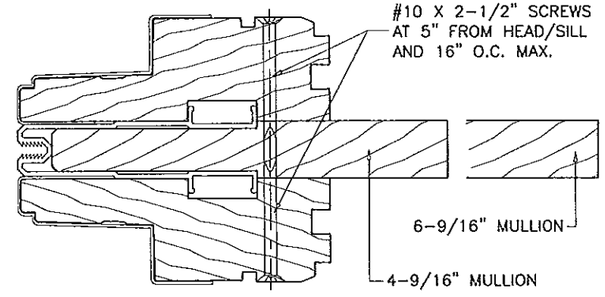
AWNING TO AWNING
HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7



CASEMENT TO AWNING
VERTICAL OR HORIZONTAL JOIN

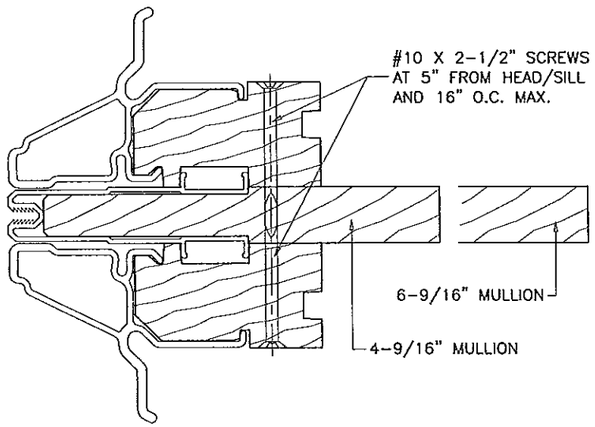
MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7



CASEMENT TO CASEMENT
HORIZONTAL JOIN

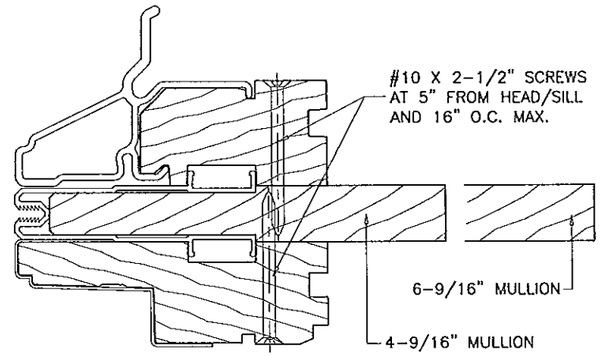
AWNING TO AWNING
VERTICAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7



FLEXIFRAME TO FLEXIFRAME
VERTICAL OR HORIZONTAL JOIN

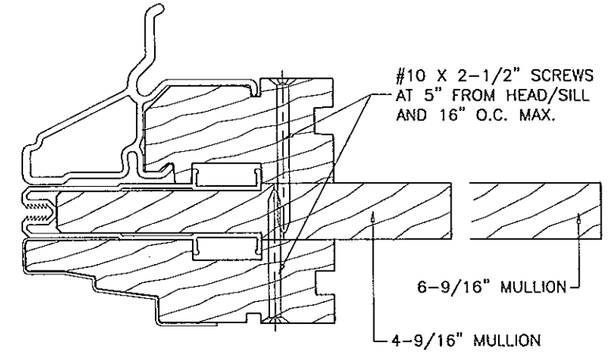
MULLION TYPE	GROUP NO.
4-9/16"	2
6-9/16"	5



CASEMENT TO FLEXIFRAME
HORIZONTAL JOIN

AWNING TO FLEXIFRAME
VERTICAL JOIN

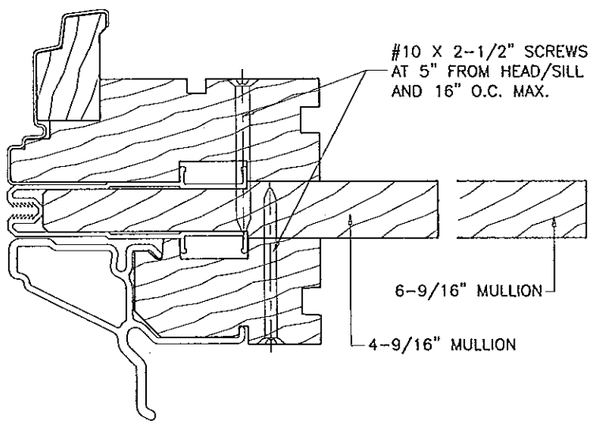
MULLION TYPE	GROUP NO.
4-9/16"	2
6-9/16"	6



CASEMENT TO FLEXIFRAME
VERTICAL JOIN

AWNING TO FLEXIFRAME
HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	2
6-9/16"	6



FLEXIFRAME TO CIRCLE TOP/QUARTER
VERTICAL OR HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	2
6-9/16"	6

SEE SHEET 9 FOR 'I' VALUES OF VARIOUS GROUPS

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

MAY 20 2013

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Miami Dade Product Control

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MULLION\M05-01AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

ANDERSEN CORPORATION
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chk. by:

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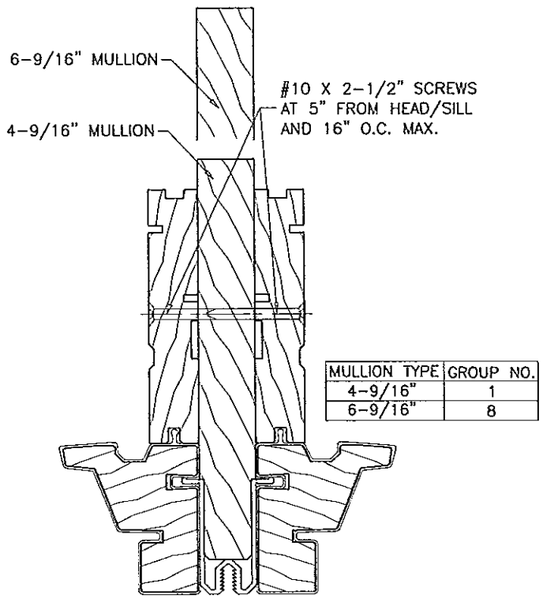
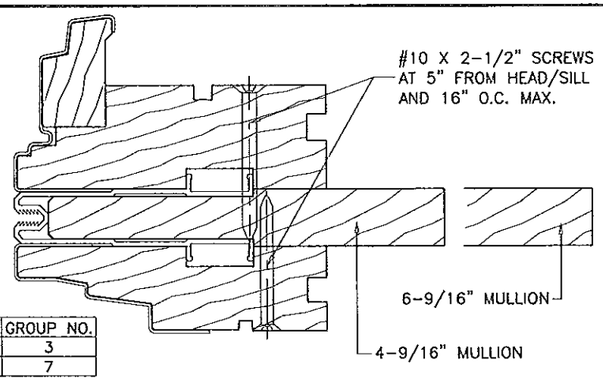


MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	8

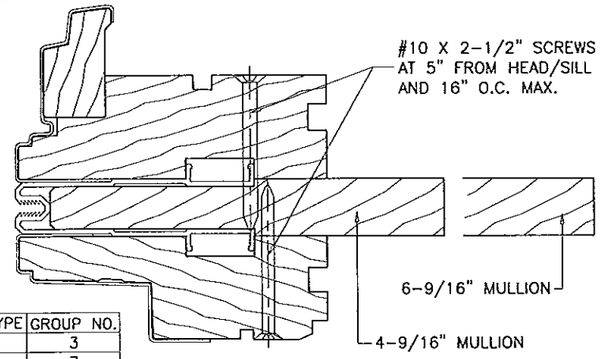
400 TWDH WDW TO 400 TWDH WDW
VERTICAL JOIN

400 TWDH WDW TO 400 TWDH PICTURE WDW
VERTICAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7

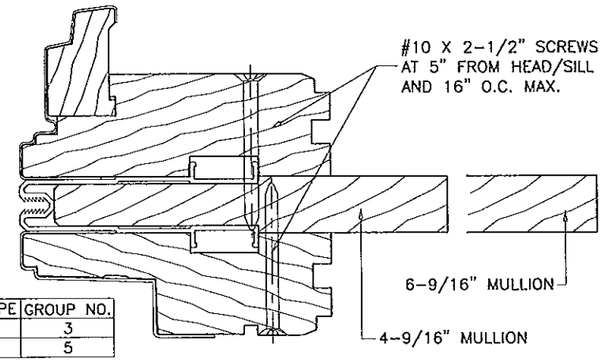
CIRCLE TOP TO AWNING
HORIZONTAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7

CIRCLE TOP TO CASEMENT
HORIZONTAL JOIN

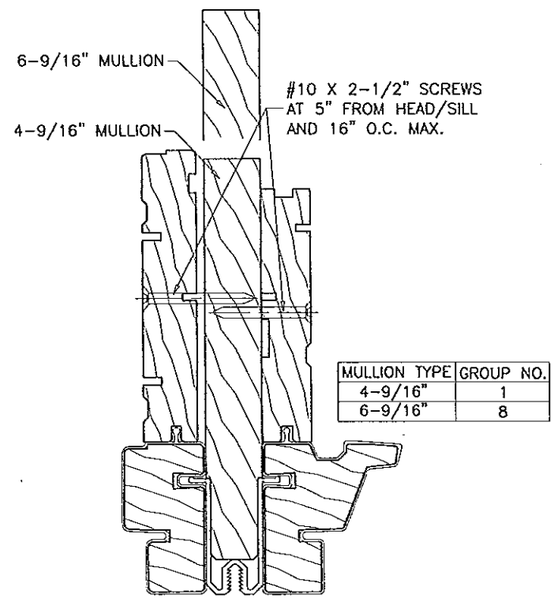
SEE SHEET 9 FOR 'I' VALUES OF VARIOUS GROUPS



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	5

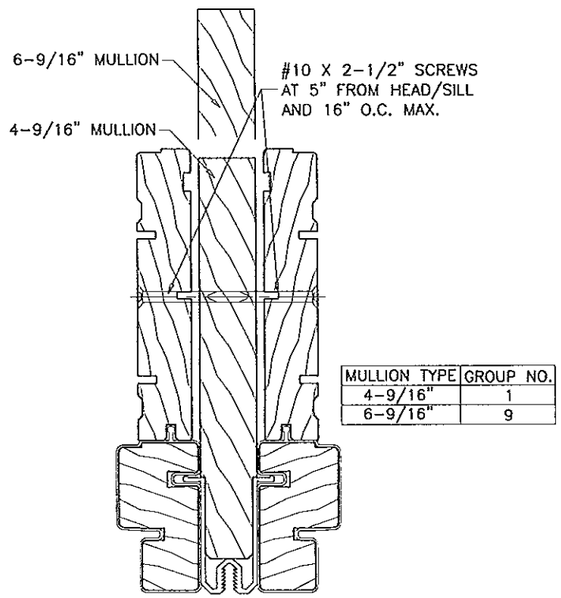
CASMT PICTURE WDW. TO AWNING
VERTICAL JOIN

CASMT PICTURE WDW. TO CASEMENT
HORIZONTAL JOIN



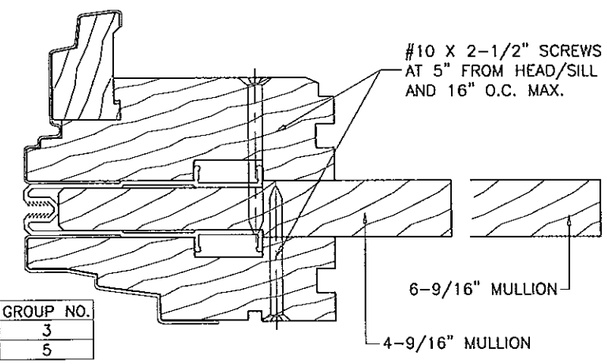
MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	8

PSNL WDW TO 400 TWDH PICTURE WDW
VERTICAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	9

PSNL WDW TO PSNL WDW
VERTICAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	5

CASMT PICTURE WDW. TO AWNING
HORIZONTAL JOIN

CASMT PICTURE WDW. TO CASEMENT
VERTICAL JOIN

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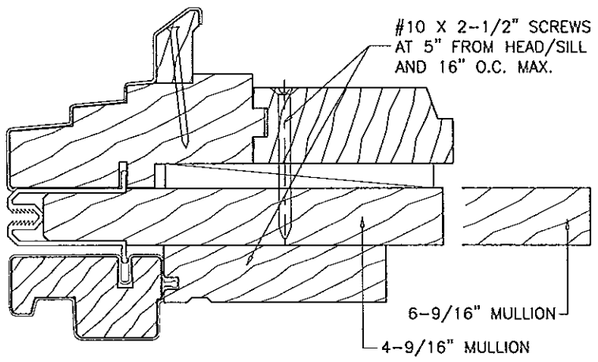
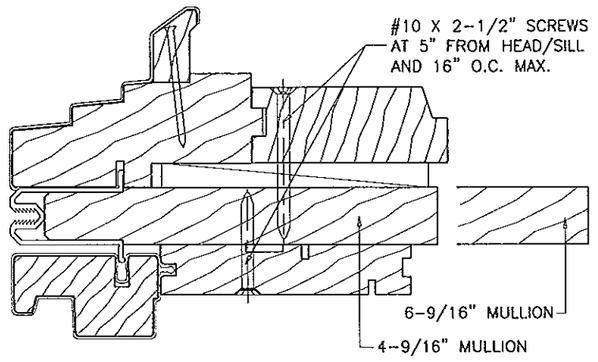
sheet 8 of 13



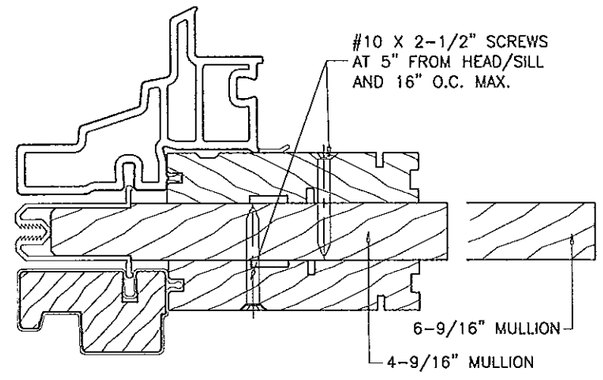
PSNL TO CIRCLE TOP-NL
HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	8



400 TW TO CIRCLE TOP-NL
HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	9



400 TW TO TW TRANSOM
HORIZONTAL JOIN

MULLION TYPE	GROUP NO.
4-9/16"	1
6-9/16"	6

VALUES USED GROUP		ALUMINUM COVER	WOOD+MULL 4-9/16"	WOOD+MULL 6-9/16"	TOTAL 'I' IN TERMS OF WOOD
1	Ix IN^4	0.0655	12.2451	–	12.7489
	Sx IN^3	0.0719	4.5182	–	
2	Ix IN^4	0.5801	10.7178	–	15.1801
	Sx IN^3	0.3427	3.7804	–	
3	Ix IN^4	0.5801	11.7200	–	16.1823
	Sx IN^3	0.3427	5.2952	–	
4	Ix IN^4	0.0655	15.6790	–	16.1828
	Sx IN^3	0.0719	8.0691	–	
5	Ix IN^4	0.5801	–	25.1317	29.5940
	Sx IN^3	0.3427	–	6.8663	
6	Ix IN^4	0.5801	–	25.1317	29.5940
	Sx IN^3	0.3427	–	7.8598	
7	Ix IN^4	0.0655	–	29.0902	29.5940
	Sx IN^3	0.0719	–	10.0284	
8	Ix IN^4	0.0655	–	29.0902	29.5940
	Sx IN^3	0.0719	–	10.7842	
9	Ix IN^4	0.0655	–	29.0902	29.5940
	Sx IN^3	0.0719	–	11.9135	

NOTE: TO OBTAIN TOTAL COMBINED 'I' VALUES
$E_{ALUM} = 10^7$
$E_{WOOD} = 1{,}300{,}000$ PSI

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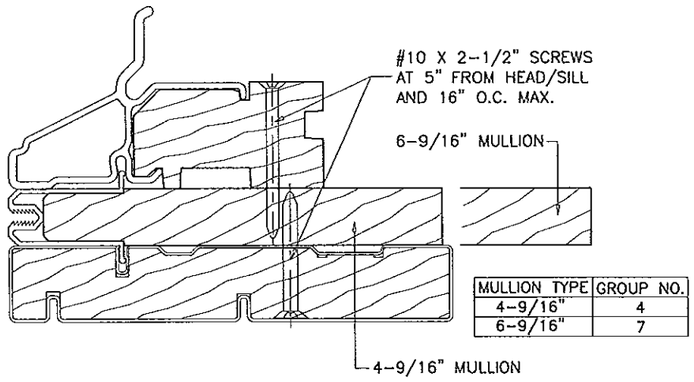
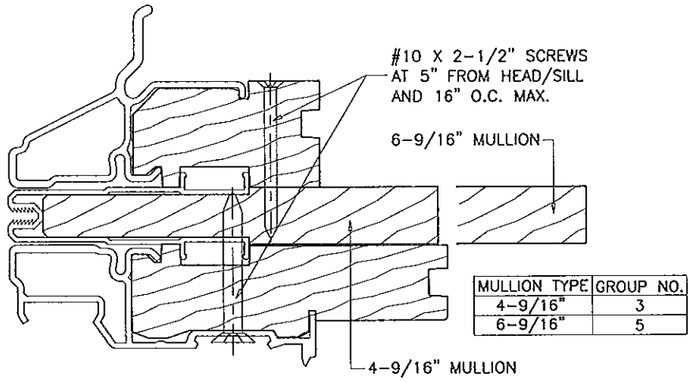


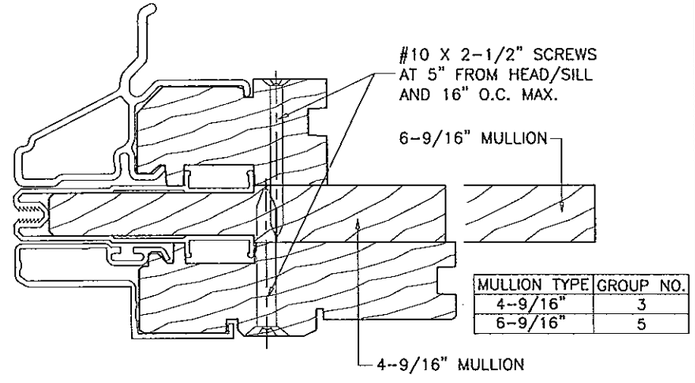
MULLION TYPE	GROUP NO.
4-9/16"	4
6-9/16"	7

FLEXIFRAME/ARCH/SPRINGLINE TO FW GLIDING DOOR
HORIZONTAL JOIN



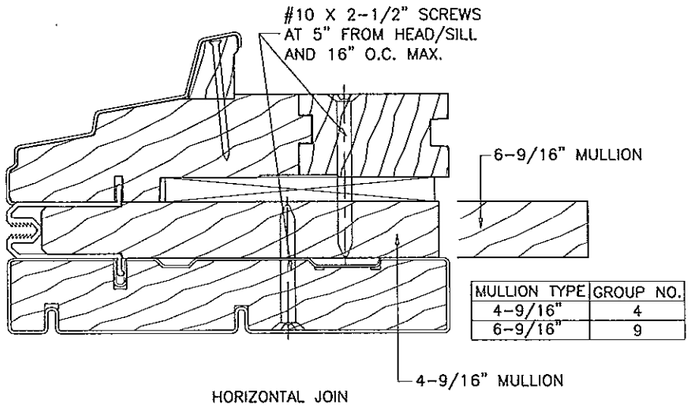
MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	5

FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



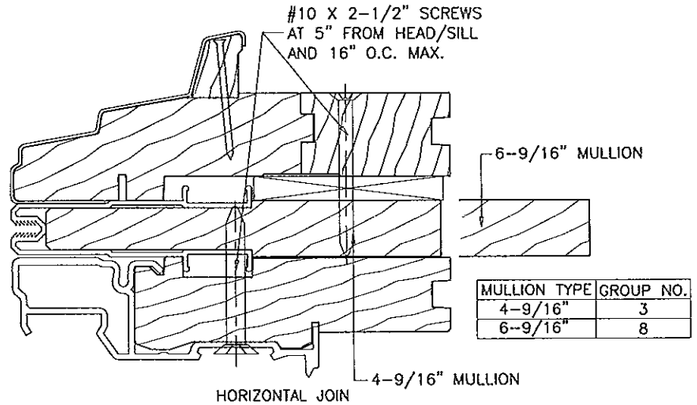
MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	5

FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



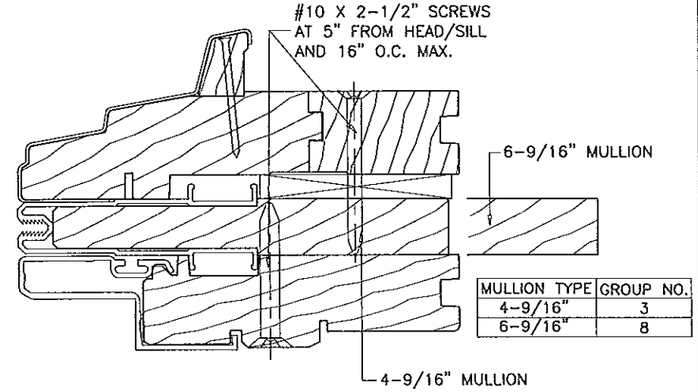
MULLION TYPE	GROUP NO.
4-9/16"	4
6-9/16"	9

HORIZONTAL JOIN
FLEXIFRAME/ARCH/SPRINGLINE TO FW GLIDING DOOR



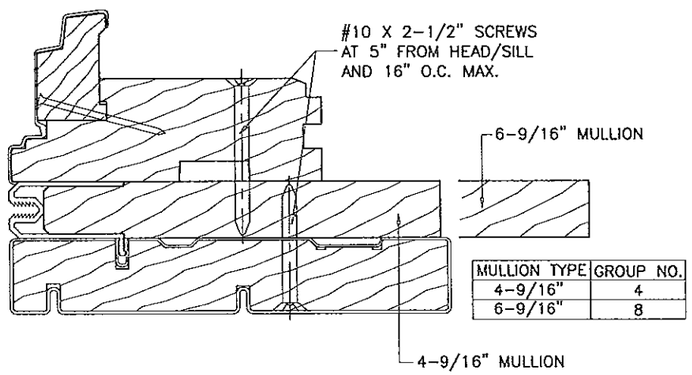
MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	8

HORIZONTAL JOIN
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR



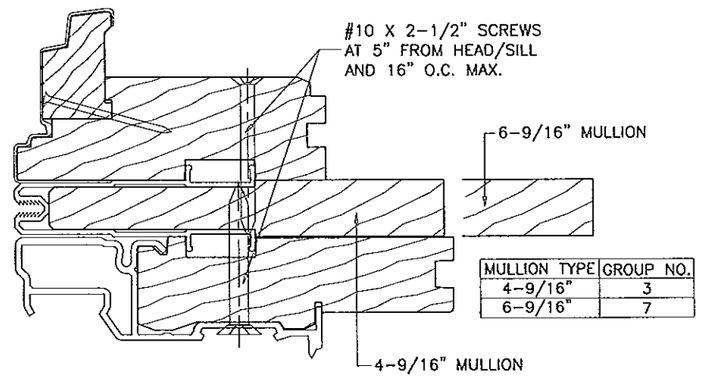
MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	8

FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



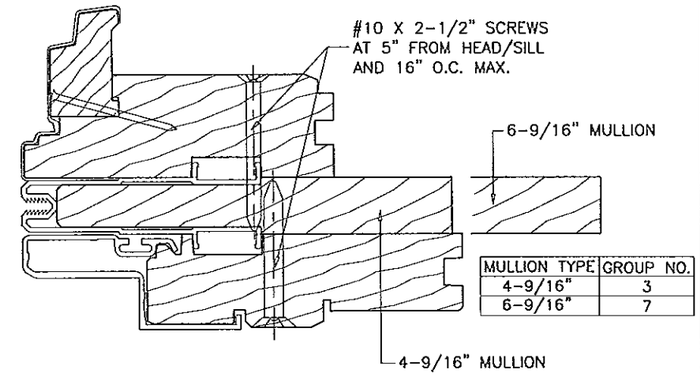
MULLION TYPE	GROUP NO.
4-9/16"	4
6-9/16"	8

PSCA PICTURE WDW TO FW GLIDING DOOR
HORIZONTAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7

PSCA PICTURE WDW TO FWH DOOR
HORIZONTAL JOIN



MULLION TYPE	GROUP NO.
4-9/16"	3
6-9/16"	7

PSCA PICTURE WDW TO FWO DOOR
HORIZONTAL JOIN

SEE SHEET 9 FOR 'I' VALUES OF VARIOUS GROUPS

Engr: JAVAD AHMAD
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FLA. PE # 70592
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ADDL. BRACKET REQD.
FOR CONC./MASONRY INSTALLATIONS ONLY
WITH (2) ANCHORS TYPE 'B'
IN OUTER 2 HOLES OF BRACKET

HEAD/SILL BRACKET
(1) REQD. AT MULL END FOR WOOD & METAL STRUCTURES
(2) REQD. AT MULL END FOR CONC./MASONRY STRUCTURES

VERT. MULL
HEAD CONNECTION

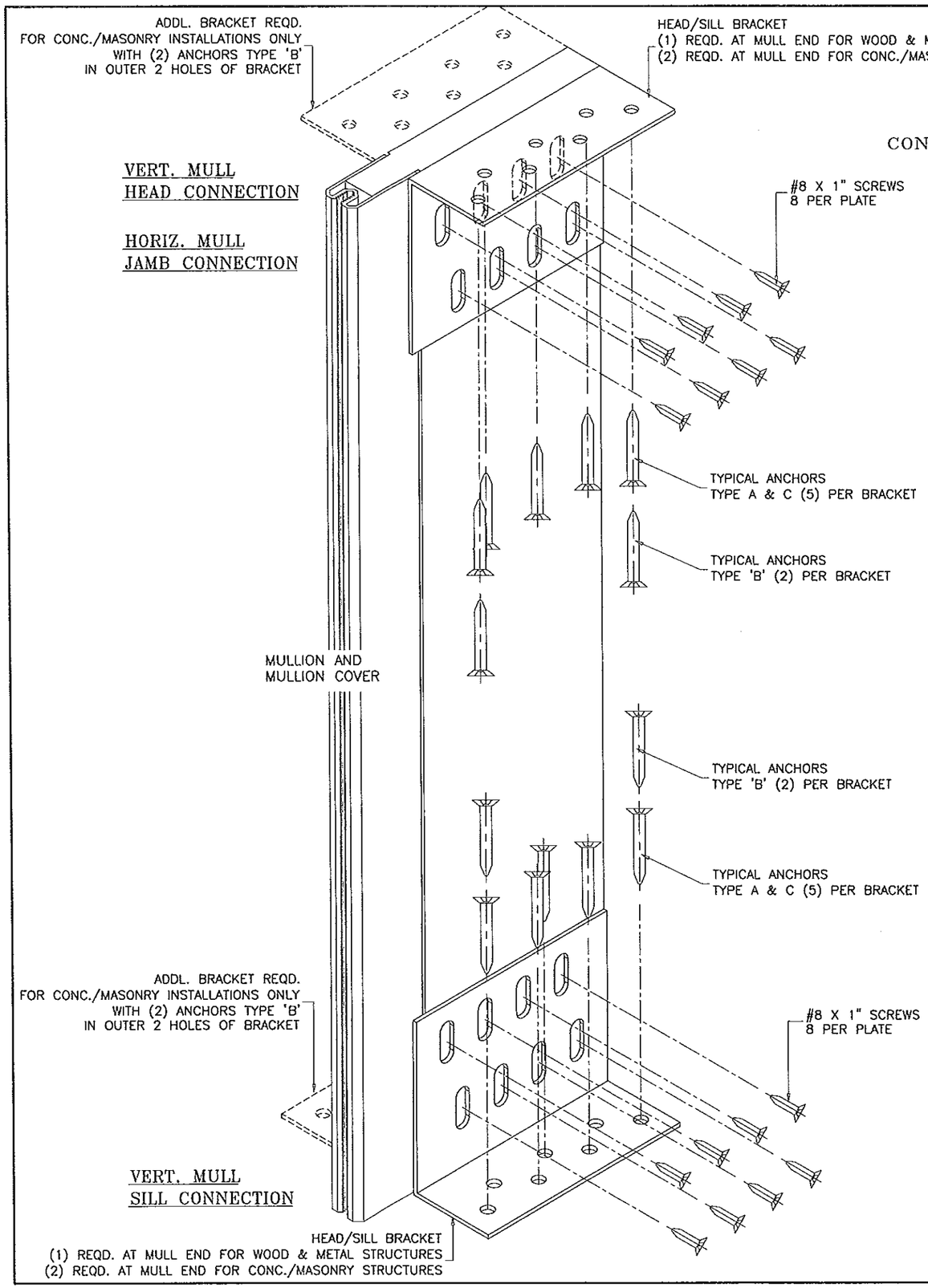
HORIZ. MULL
JAMB CONNECTION

#8 X 1" SCREWS
8 PER PLATE

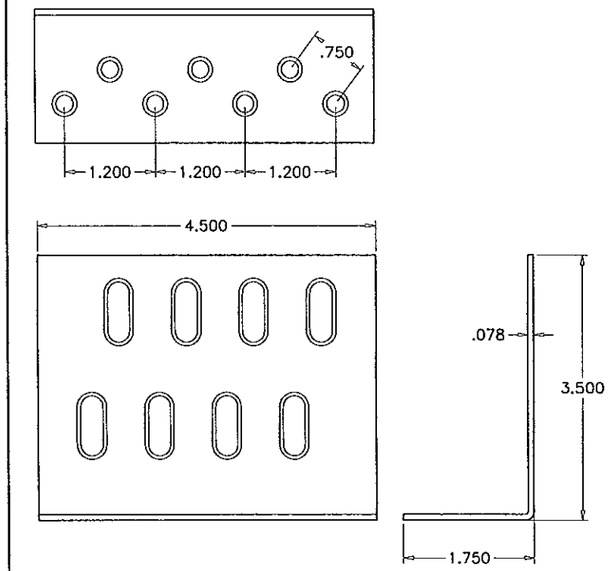
TYPICAL ANCHORS
TYPE A & C (5) PER BRACKET

TYPICAL ANCHORS
TYPE 'B' (2) PER BRACKET

MULLION AND
MULLION COVER



4-9/16" MULLION
6-9/16" MULLION
CONNECTION DETAIL W/ BRACKET



HEAD/SILL BRACKET
14 GA. ZINC PLATED STEEL

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" 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 AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

ANCHORS CL TO CL DISTANCES

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

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

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IN OUTER 2 HOLES OF BRACKET

#8 X 1" SCREWS
8 PER PLATE

VERT. MULL
SILL CONNECTION

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(2) REQD. AT MULL END FOR CONC./MASONRY STRUCTURES

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chk. by:

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sheet 11 of 13

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

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

DIRECTLY INTO CONC. OR MASONRY
1–1/4" MIN. EMBED INTO CONC. OR MASONRY

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

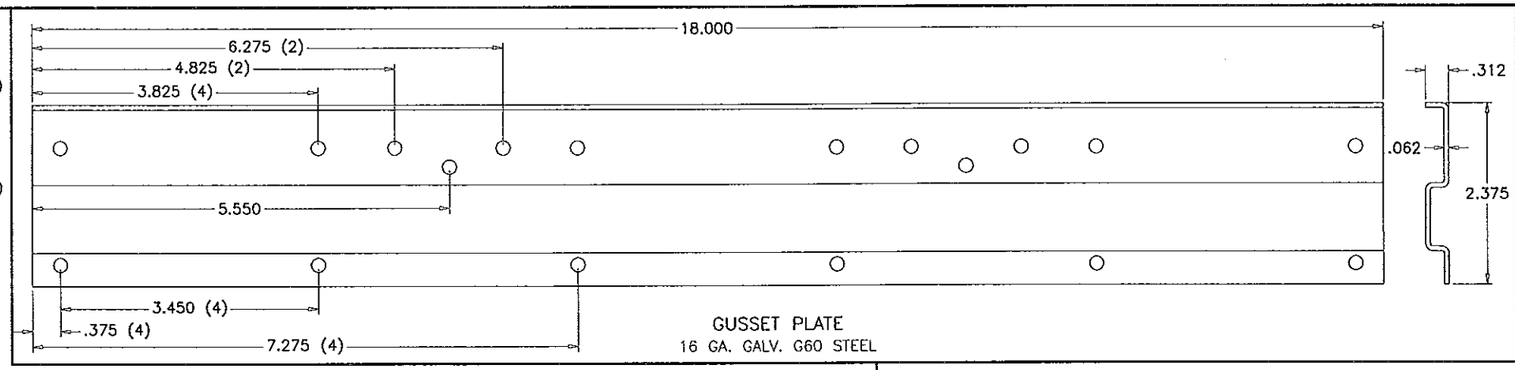
TYPICAL EDGE DISTANCE

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

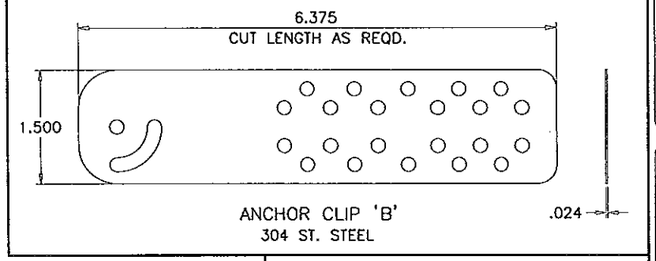
ANCHORS CL TO CL DISTANCES

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

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

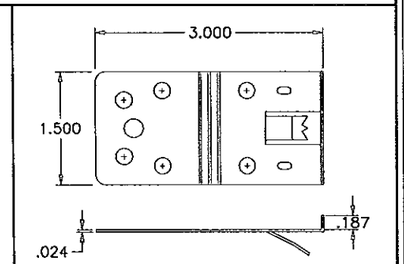


GUSSET PLATE
16 GA. GALV. G60 STEEL

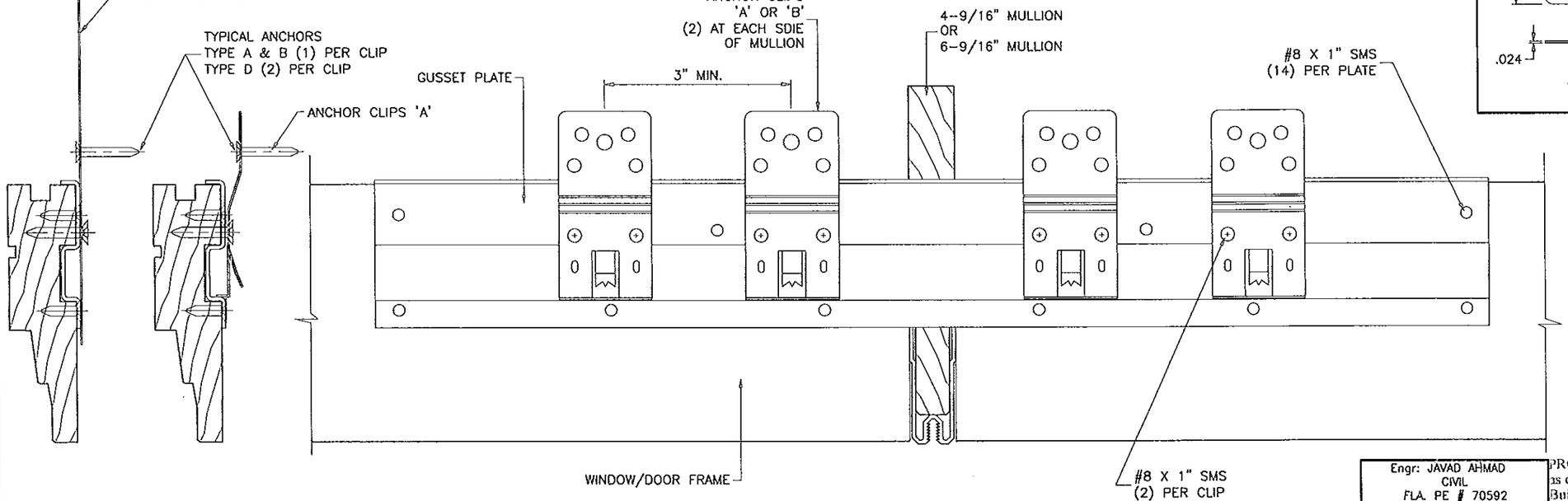


ANCHOR CLIP 'B'
304 ST. STEEL

4–9/16" MULLION
6–9/16" MULLION
CONNECTION DETAIL W/ GUSSET PLATE



ANCHOR CLIP 'A'
304 ST. STEEL



GUSSET PLATE FASTENED TO HEAD OR SILL OF TWO ADJACENT DOOR/WINDOW FRAMES.
ANCHOR CLIPS ATTACHED TO GUSSET PLATES AS SHOWN ABOVE.
SEE SHEET 12.1 FOR ILLUSTRATION

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

MAY 2 0 2013

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0411.01
Expiration Date Dec. 22, 2017
By Manuel Perez
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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MULLION\M05-01AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

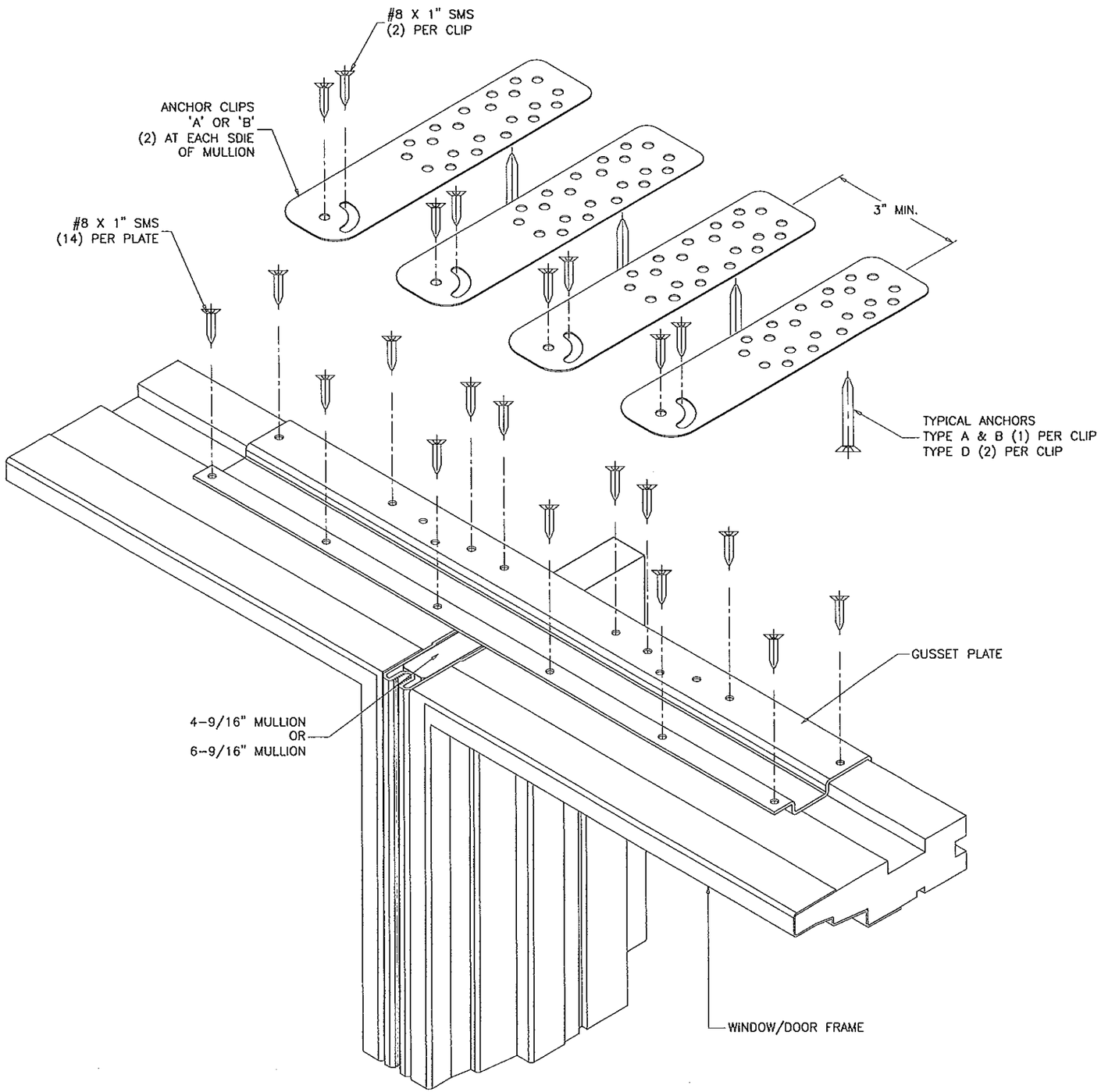
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003–1096
TEL. (800) 426–7691 FAX (-)

revisions:

no	date	by	description
C	11.15.12		GUSSET PLATE OPTION ADDED
D	05.13.13		REV. PER RER COMMENTS

date: 08–15–05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M05–01



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MAY 20 2013

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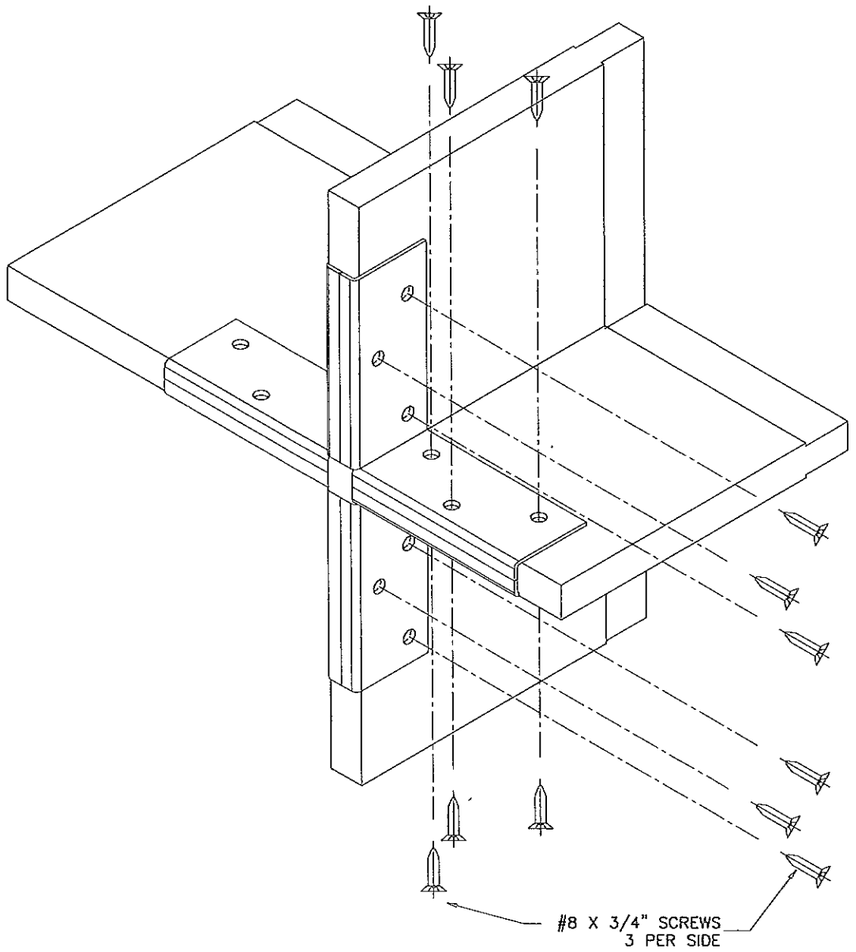
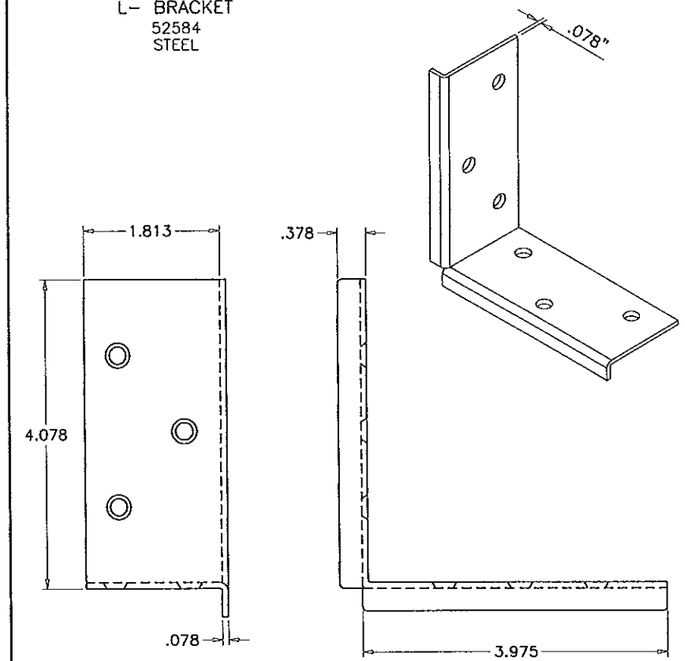


VERT. MULLION CONNECTION TO HORIZONTAL MULLION

L- BRACKET
52584
STEEL



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revisions:

no	date	by	description
A	04.16.10		NO CHANGE THIS SHEET
B	01.26.12		NO CHANGE THIS SHEET
C	11.15.12		NO CHANGE THIS SHEET
D	05.13.13		REV. PER RER COMMENTS

date: 08-15-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M05-01

sheet 13 of 13