



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

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

JELD-WEN Inc.
 3737 Lakeport Blvd
 Klamath Falls, OR 97601

SCOPE:

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

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

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

DESCRIPTION: The Jeld-Wen Series "Un-Clipped" Single or Double Aluminum Un-clipped Mullion
APPROVAL DOCUMENT: Drawing No. **JEND0023**, titled "Un-clipped Aluminum Mullion" Sheets 1 through 8 of 8, prepared by Engineering Express 08/02/10 and last revised on 06-06-12, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitations:

1. This Un-Clipped Mullion to be used with JELD-WEN windows products having current NOA(s) with calculated average tributary width and span per elevation sheets 1 & 2 and using Design Pressure charts per sheet 6 and 7.
2. Lower Design Pressure of the Un-clipped mullions and/or JELD-WEN windows products (under separate approval) shall control the entire assembly.
3. Un-clipped mullion typical intersection installations detail 3/4, 1/5 and 2/5 into wood fenestration products shall meet unclipped mullion end anchors, embedment, edge distance and OC spacing per sheet 6.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Bend, Oregon** and 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 # 08-1015.07 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 11-0107.10
 Expiration Date: June 21, 2017
 Approval Date: June 21, 2012
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **JEND0023**, titled "Un-clipped Aluminum Mullion" Sheets 1 through 8 of 8, prepared by Engineering Express 08/02/10 and last revised on 06-06-12, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of 1" Clipped Alum Mullion, prepared by National Certified Testing Lab, Test Report No. **NCTL-210-3729-1** originally issued on 05/04/11 and revised by an addendum letter dated 11/07/11 and marked-up drawings issued by NCTL, both signed and sealed by Jerard J. Ferrara, P.E.

2. Additional referenced test report per TAS 202-94, TAS 201/23-94 of Single & Double Clipped Alum Mullion, prepared by National Certified Testing Lab, Test Report No. **NCTL-210-3491-2**, originally issued on 12/03/07 and revised and re-issued on 02/27/09, signed and sealed by Jerard J. Ferrara, P.E. (submitted under file # **10-1115.03**)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and 2010, prepared by Engineering Express, dated 01/03/11, 01/10/12, 05/02/12 and last revised on 06/06/12, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Statement letter of conformance to FBC 2010, prepared by Engineering Express, dated 05/01/12, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of conformance to FBC 2007, prepared by Engineering Express, dated 01/03/11, signed and sealed by Frank L. Bennardo, P.E.
3. Lab compliance as part of the above referenced test reports, along with addendum letters cited above.

G. OTHER

1. Referenced Test proposals # **07-3760** & #**10-0646** approved by BCCO.



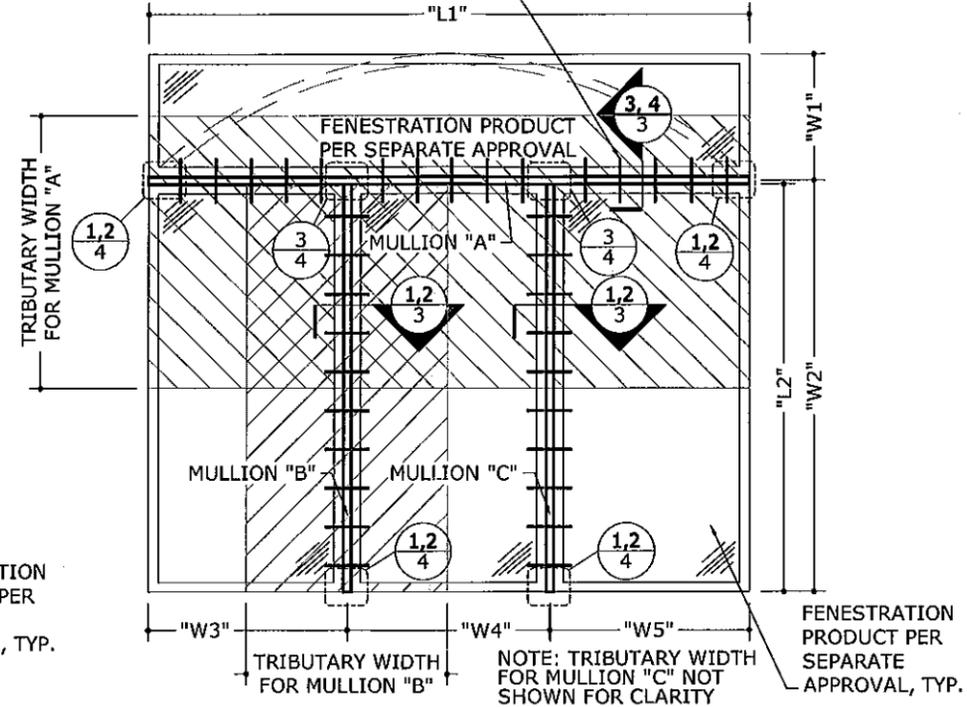
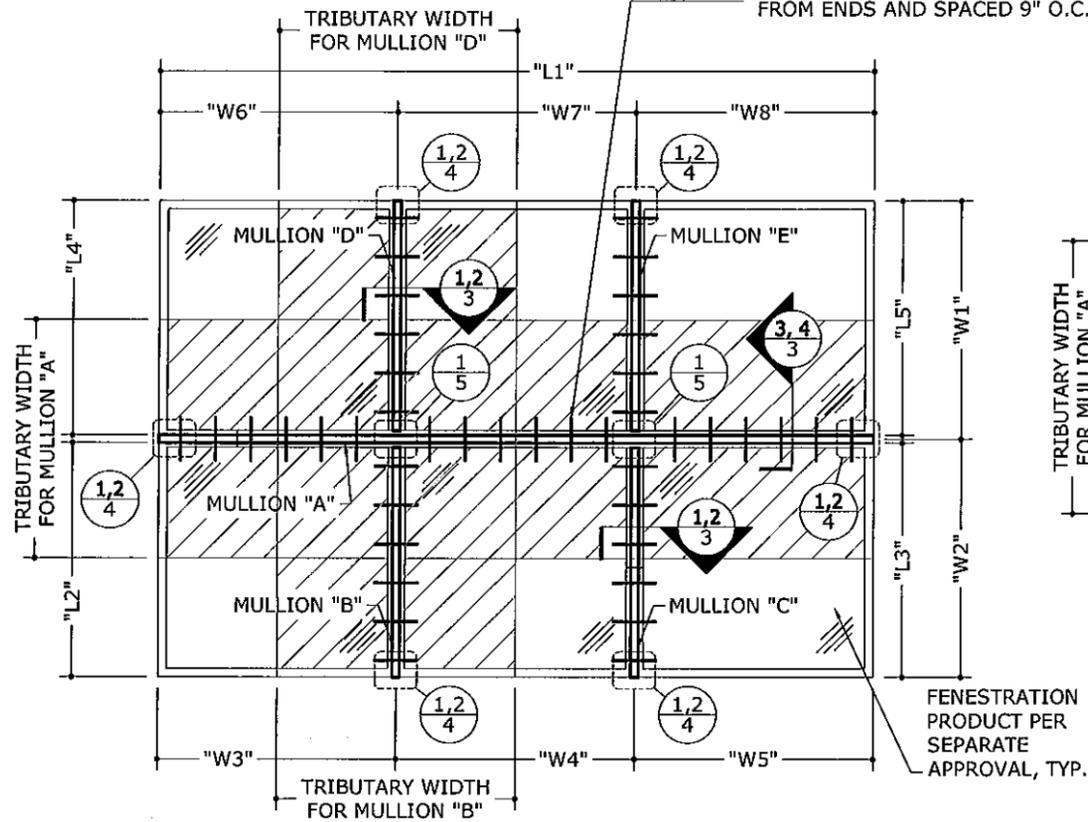
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-0107.10
Expiration Date: June 21, 2017
Approval Date: June 21, 2012

UN-CLIPPED ALUMINUM MULLION

LARGE AND SMALL MISSILE IMPACT RESISTANT

NOTE: MULLION DESIGNATIONS (MULLION 'A', MULLION 'B', MULLION 'C', MULLION 'D' AND MULLION 'E') PROVIDED IN DETAILS 1/1 AND 2/1 ARE PROVIDED ONLY TO ILLUSTRATE THE DETERMINATION OF MULLION SPANS AND TRIBUTARY WIDTHS. ALL MULLIONS SHOWN IN THE BELOW REFERENCED DETAILS MAY BE ANY MULLION APPROVED HEREIN.

FENESTRATION PRODUCTS SHALL BE FASTENED TO MULLIONS WITH A MINIMUM OF #10x2.5" WOOD SCREWS, LOCATED 3" FROM ENDS AND SPACED 9" O.C. MAX, TYPICAL ALL MULLIONS



- NOTES:**
- FENESTRATION PRODUCTS AND ANCHORAGE TO MULLIONS SHALL BE PER SEPARATE APPROVAL.
 - ALLOWABLE DESIGN PRESSURES SHALL BE DETERMINED FROM DESIGN SCHEDULES.
 - MULLION SPANS AND TRIBUTARY WIDTHS SHALL BE DETERMINED AS FOLLOWS:
 - MULLION "A":
 - MULLION SPAN = L1
 - TRIBUTARY WIDTH = (W1 + W2) / 2
 - MULLION "B":
 - MULLION SPAN = L2
 - TRIBUTARY WIDTH = (W3 + W4) / 2
 - MULLION "C":
 - MULLION SPAN = L3
 - TRIBUTARY WIDTH = (W4 + W5) / 2
 - MULLION "D":
 - MULLION SPAN = L4
 - TRIBUTARY WIDTH = (W6 + W7) / 2
 - MULLION "E":
 - MULLION SPAN = L5
 - TRIBUTARY WIDTH = (W7 + W8) / 2
 - MULLIONS "A", "B", "C", "D" OR "E" CAN BE A SINGLE MULLION (1), OR DOUBLE MULLION (2).
 - SEE ALLOWABLE MULLION SPAN, TRIBUTARY WIDTH AND DESIGN PRESSURE PER SHEET 6 & 7.

Approved as complying with the
Florida Building Code
Date: JUNE 21, 2012
NOA# 11-0107-10
Miami Dade Product Control
Dr. L. Shug. L. Shug.

1 FENESTRATION PRODUCTS WITH INTERSECTING MULLIONS
1 N.T.S. EXTERIOR ELEV.

- NOTES:**
- NUMBER OF FENESTRATION PRODUCTS UNDERNEATH TRANSOM MAY BE UNLIMITED, PROVIDED THAT MULLION LIMITATIONS NOTED HEREIN ARE NOT EXCEEDED.
 - FENESTRATION PRODUCTS AND ANCHORAGE TO MULLIONS SHALL BE PER SEPARATE APPROVAL.
 - ALLOWABLE DESIGN PRESSURES SHALL BE DETERMINED FROM DESIGN SCHEDULES.
 - MULLION SPANS AND TRIBUTARY WIDTHS SHALL BE DETERMINED AS FOLLOWS:
 - MULLION "A":
 - MULLION SPAN = L1
 - TRIBUTARY WIDTH = (W1 + W2) / 2
 - MULLION "B":
 - MULLION SPAN = L2
 - TRIBUTARY WIDTH = (W3 + W4) / 2
 - MULLION "C":
 - MULLION SPAN = L2
 - TRIBUTARY WIDTH = (W4 + W5) / 2
 - MULLIONS "A", "B", OR "C" CAN BE A SINGLE MULLION (1), OR DOUBLE MULLION (2).
 - SEE ALLOWABLE MULLION SPAN, TRIBUTARY WIDTH AND DESIGN PRESSURE PER SHEET 6 & 7.

1 MULLIONED FENESTRATION PRODUCTS WITH TRANSOM
1 N.T.S. EXTERIOR ELEV.

MAXIMUM ALLOWABLE DESIGN PRESSURES:

AS NOTED IN DESIGN SCHEDULES

DESIGN NOTES:

POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 1609 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES:

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 AND THE 2005 ALUMINUM DESIGN MANUAL.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT, TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION. DEVIATIONS FROM THIS APPROVAL WITHIN THE HVHZ SHALL REQUIRE A ONE-TIME PRODUCT APPROVAL FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. PRESSURE TREATED WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- ALL FENESTRATION PRODUCTS TO BE USED WITH THESE MULLIONS SHALL MEET ALL APPLICABLE CODE REQUIREMENTS, e.g. WIND LOAD RESISTANCE, AIR & WATER INFILTRATION, FORCED ENTRY, SAFEGUARDS, ETC.
- PROVIDE (5) PINCHES MINIMUM PAST THE THREAD PLANE FOR ALL ANCHORS FASTENING FENESTRATION PRODUCTS TO THE ALUMINUM MULLIONS AS ILLUSTRATED HEREIN.
- ALLOWABLE DESIGN PRESSURE ON THE MULLED ASSEMBLY SHALL BE GOVERNED BY THE LESSER ALLOWABLE DESIGN PRESSURE OF THE MULLION (PER DESIGN SCHEDULES HEREIN) OR OF THE FENESTRATION PRODUCTS (PER SEPARATE APPROVAL).
- TOP & BOTTOM UN-CLIPPED DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. MULLIONS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM ANCHOR EMBEDMENT SHALL BE AS NOTED IN HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- MULLIONS SHOWN HEREIN ARE LARGE MISSILE IMPACT RESISTANT. VERIFY IMPACT RESISTANCE OF FENESTRATION PRODUCTS TO BE USED WITH THESE MULLIONS.
- MULLIONS SHOWN HEREIN MAY BE USED IN LARGE MISSILE IMPACT, SMALL MISSILE IMPACT, AND NON-IMPACT APPLICATIONS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

FRANK L. BERNARDO
#PE0046141
LICENSE
06/06/2012
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ENGINEERING EXPRESS
160 SW 12th AVENUE, #106D
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0943
WWW.ENGP.COM
CERT. OF AUTH. #8885
A FRANK L. BERNARDO, P.E., INC. INNOVATION

JELDWEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELDWEN (1-800-535-3936)

UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	DRWN	CHKD
INT. ISSUE	06/02/10	KL	FLB
REV. PER BNC COMMENTS	07/28/11	KL	FLB
REV. PER PCS COMMENTS	04/23/12	CSL	TSB
REV. PER PCS COMMENTS	06/06/12	CSL	TSB

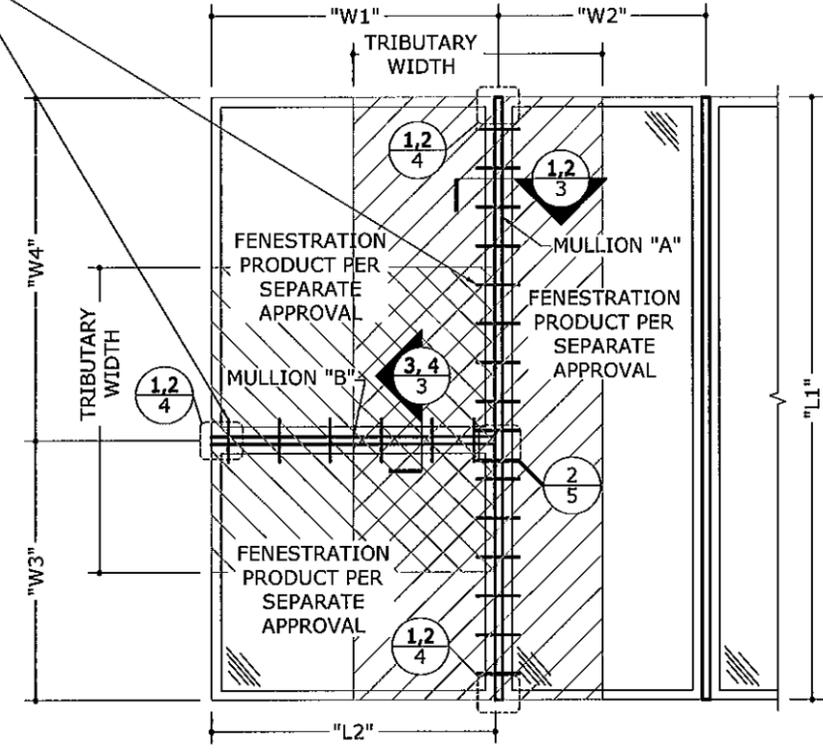
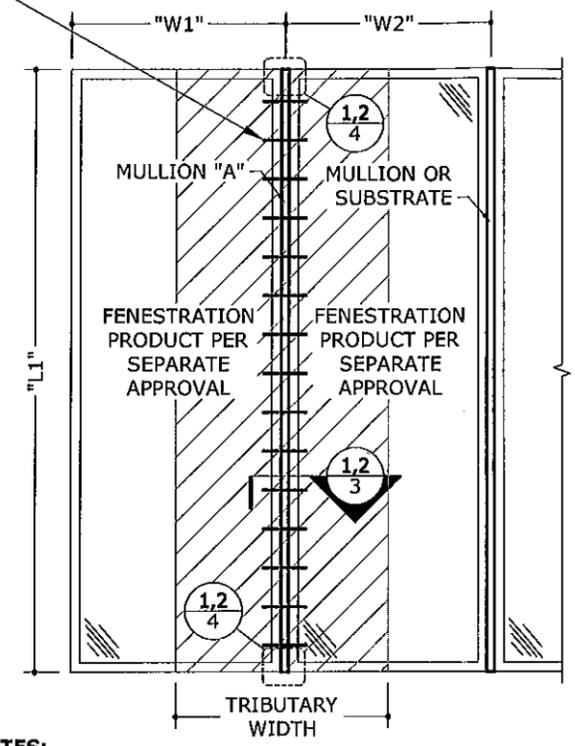
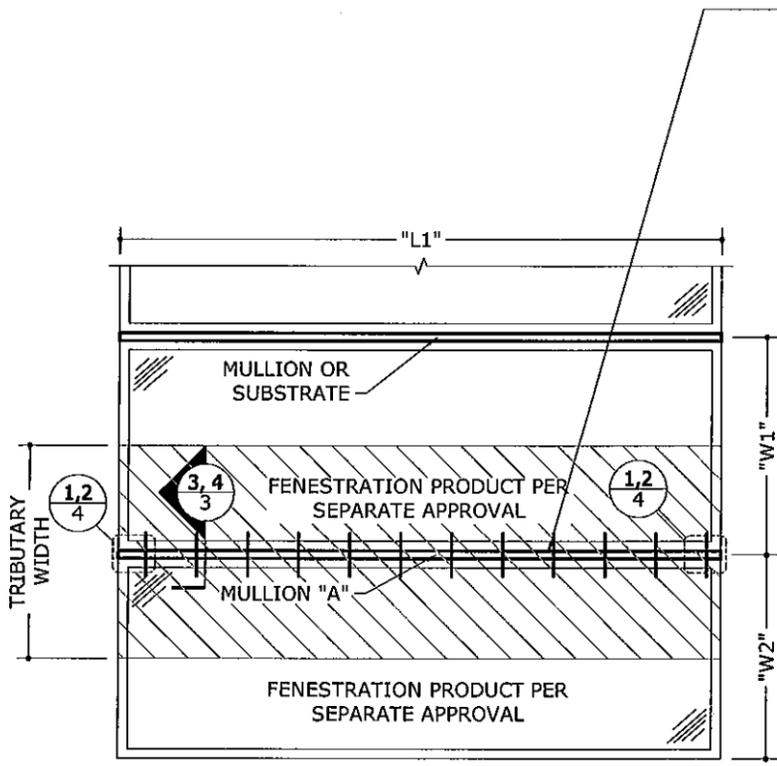
10-JWN-0023
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION: 1

I:\SERVER01\file\cabinat01\Project Files\Lead-Wen (JWN)\2010\10-JWN-0023 Un-Clipped Aluminum Mullion (NOA)\10-JWN-0023 Un-Clipped Aluminum Mullion (NOA).dwg
chen
06/06/2012 - 2:19pm

I:\SERVER01\Files\Cabinet\01_Project Files\Lead-Wen (JWN)\201010-JWN-0023 Un-Clipped Aluminum Mullion (NOA).dwg

NOTE: MULLION DESIGNATIONS (MULLION 'A', MULLION 'B') PROVIDED IN DETAILS 1/2, 2/2 AND 3/2 ARE PROVIDED ONLY TO ILLUSTRATE THE DETERMINATION OF MULLION SPANS AND TRIBUTARY WIDTHS. ALL MULLIONS SHOWN IN THE BELOW REFERENCED DETAILS MAY BE ANY MULLION APPROVED HEREIN.

FENESTRATION PRODUCTS SHALL BE FASTENED TO MULLIONS WITH A MINIMUM OF #10x2.5" WOOD SCREWS, LOCATED 3" FROM ENDS AND SPACED 9" O.C. MAX, TYPICAL ALL MULLIONS



- NOTES:**
- UNLIMITED NUMBER OF FENESTRATION PRODUCTS MAY BE MULLIONED TOGETHER AS SHOWN, PROVIDED THAT MULLION LIMITATIONS NOTED HEREIN ARE NOT EXCEEDED.
 - FENESTRATION PRODUCTS AND ANCHORAGE TO MULLIONS SHALL BE PER SEPARATE APPROVAL.
 - ALLOWABLE DESIGN PRESSURES SHALL BE DETERMINED FROM DESIGN SCHEDULES.
 - MULLION SPANS AND TRIBUTARY WIDTHS SHALL BE DETERMINED AS FOLLOW:
 - MULLION "A":
 - MULLION SPAN = L1
 - TRIBUTARY WIDTH = (W1 + W2) / 2
 - MULLION "A" CAN BE A SINGLE MULLION ①, OR DOUBLE MULLION ②.
 - SEE ALLOWABLE MULLION SPAN, TRIBUTARY WIDTH AND DESIGN PRESSURE PER SHEET 6 & 7.

- NOTES:**
- UNLIMITED NUMBER OF FENESTRATION PRODUCTS MAY BE MULLIONED TOGETHER AS SHOWN, PROVIDED THAT MULLION LIMITATIONS NOTED HEREIN ARE NOT EXCEEDED.
 - FENESTRATION PRODUCTS AND ANCHORAGE TO MULLIONS SHALL BE PER SEPARATE APPROVAL.
 - ALLOWABLE DESIGN PRESSURES SHALL BE DETERMINED FROM DESIGN SCHEDULES.
 - MULLION SPANS AND TRIBUTARY WIDTHS SHALL BE DETERMINED AS FOLLOW:
 - MULLION "A":
 - MULLION SPAN = L1
 - TRIBUTARY WIDTH = (W1 + W2) / 2
 - MULLION "A" CAN BE A SINGLE MULLION ①, OR DOUBLE MULLION ②.
 - SEE ALLOWABLE MULLION SPAN, TRIBUTARY WIDTH AND DESIGN PRESSURE PER SHEET 6 & 7.

- NOTES:**
- UNLIMITED NUMBER OF FENESTRATION PRODUCTS MAY BE MULLIONED TOGETHER AS SHOWN, PROVIDED THAT MULLION LIMITATIONS NOTED HEREIN ARE NOT EXCEEDED.
 - FENESTRATION PRODUCTS AND ANCHORAGE TO MULLIONS SHALL BE PER SEPARATE APPROVAL.
 - ALLOWABLE DESIGN PRESSURES SHALL BE DETERMINED FROM DESIGN SCHEDULES.
 - MULLION SPANS AND TRIBUTARY WIDTHS SHALL BE DETERMINED AS FOLLOW:
 - MULLION "A":
 - MULLION SPAN = L1
 - TRIBUTARY WIDTH = (W1 + W2) / 2
 - MULLION "B":
 - MULLION SPAN = L2
 - TRIBUTARY WIDTH = (W3 + W4) / 2
 - MULLION "A" OR "B" CAN BE A SINGLE MULLION ①, OR DOUBLE MULLION ②.
 - SEE ALLOWABLE MULLION SPAN, TRIBUTARY WIDTH AND DESIGN PRESSURE PER SHEET 6 & 7.

① FENESTRATION PRODUCTS MULLIONED VERTICALLY
② N.T.S. EXTERIOR ELEV.

② FENESTRATION PRODUCTS MULLIONED HORIZONTALLY
② N.T.S. EXTERIOR ELEV.

③ FENESTRATION PRODUCTS WITH VERTICAL & HORIZONTAL MULLIONS
② N.T.S. EXTERIOR ELEV.

Approved as complying with the Florida Building Code
Date 6/21/12
NOA# 11-0107-10
Miami Dade Product Control
By [Signature]

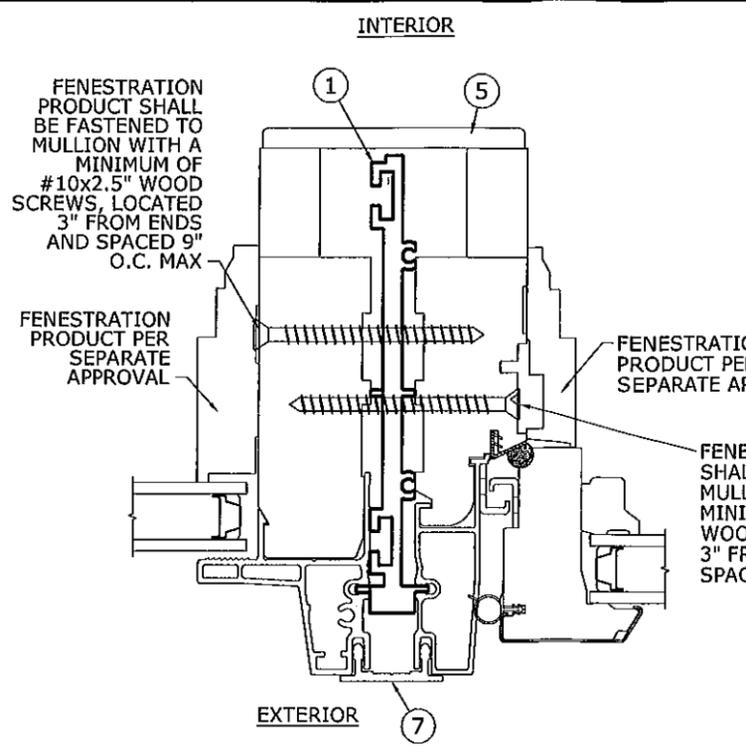
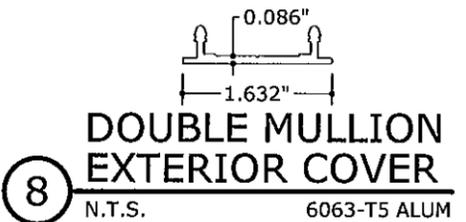
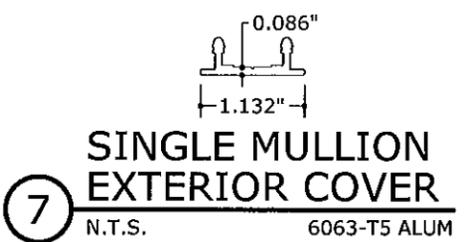
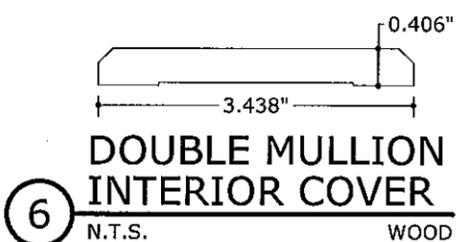
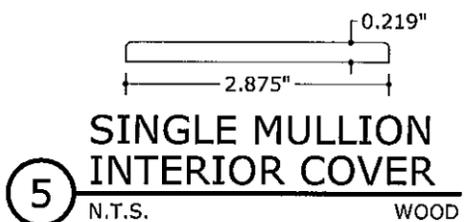
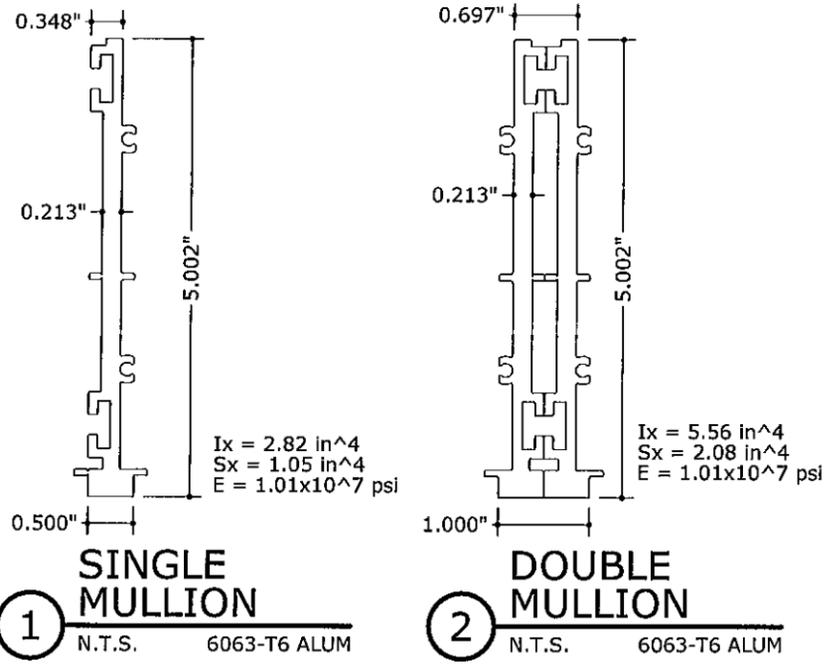
FRANK L. BENNARDO
LICENSE # PE0046129
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ENGINEERING EXPRESS
160 SW 12th AVENUE, #2106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0643
WWW.ENGGEXP.COM
CERT. OF AUTH. #8885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

JELDWEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELDWEN (1-800-535-3936)
UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

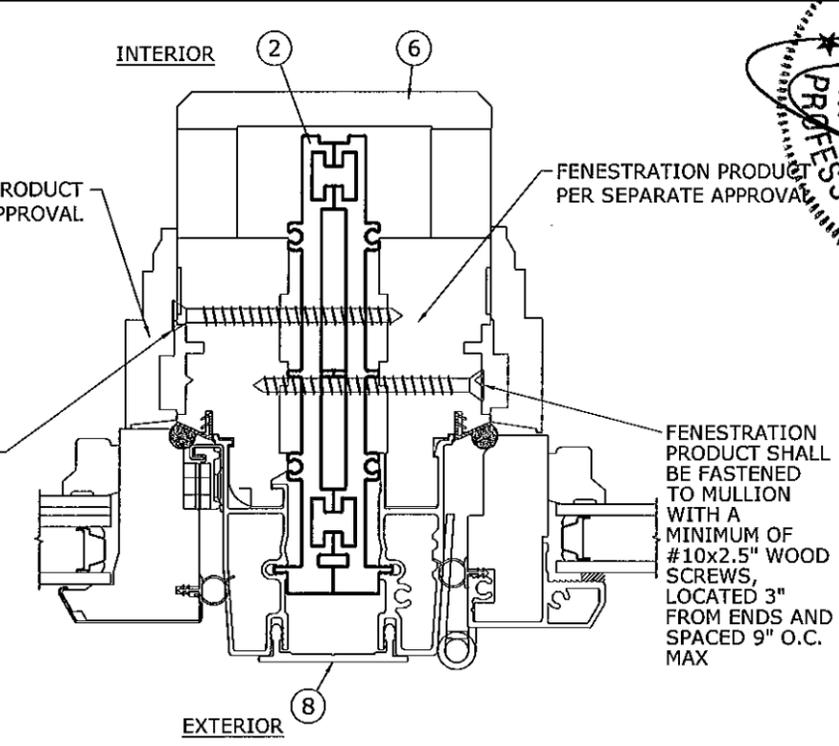
DATE	DATE	DATE	DATE
08/02/10	07/28/11	04/25/12	06/06/12
KL	FLB	CSL	TSB
KL	FLB	CSL	TSB
KL	FLB	CSL	TSB
KL	FLB	CSL	TSB

10-JWN-0023
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION:
2

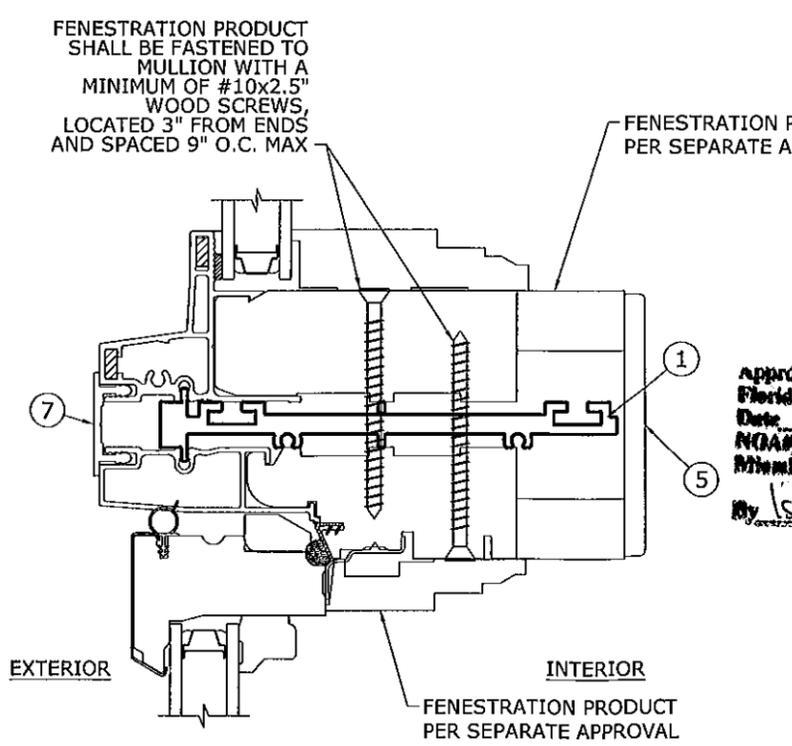
I:\SERVER01\FileCabinet\01 Project Files\Jeld-Wen (JWN)\2010\10-JWN-0023 Un-Clipped Aluminum Mullion (NOA)\10-JWN-0023_03e Un-Clipped Aluminum Mullion (NOA).dwg
 chen
 06/06/2012 - 2:19pm



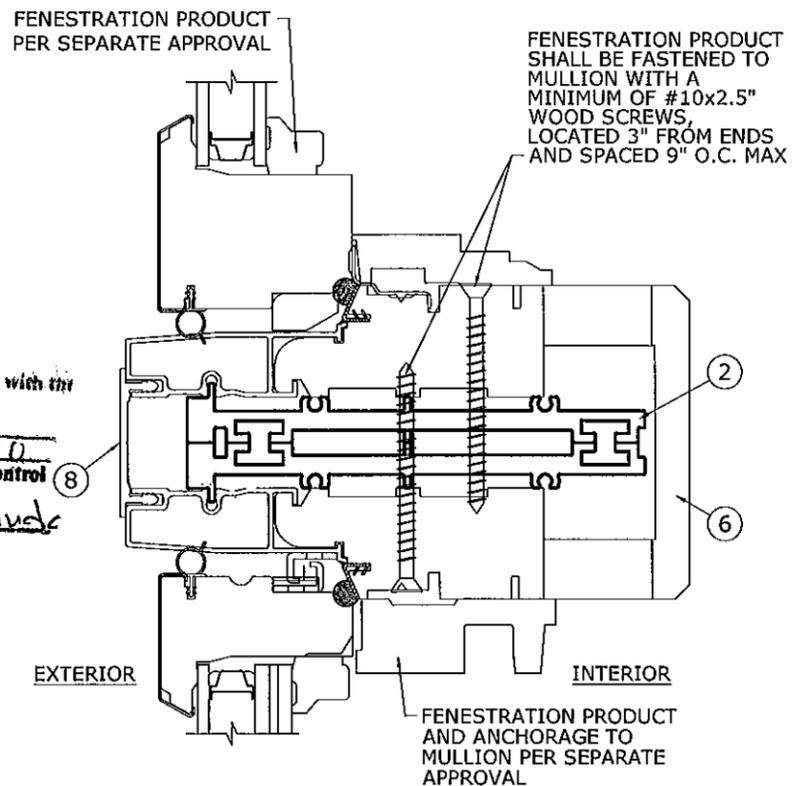
1 **TYPICAL SINGLE MULLION**
3 6" = 1'-0" HORIZ SECTION



2 **TYPICAL DOUBLE MULLION**
3 6" = 1'-0" HORIZ SECTION



3 **TYPICAL SINGLE MULLION**
3 6" = 1'-0" VERT SECTION



4 **TYPICAL DOUBLE MULLION**
3 6" = 1'-0" VERT SECTION

Approved as complying with the
 Florida Building Code
 Date: 6/21/12
 NOA# 11-0107-10
 Miami Dade Product Control
 By: [Signature]

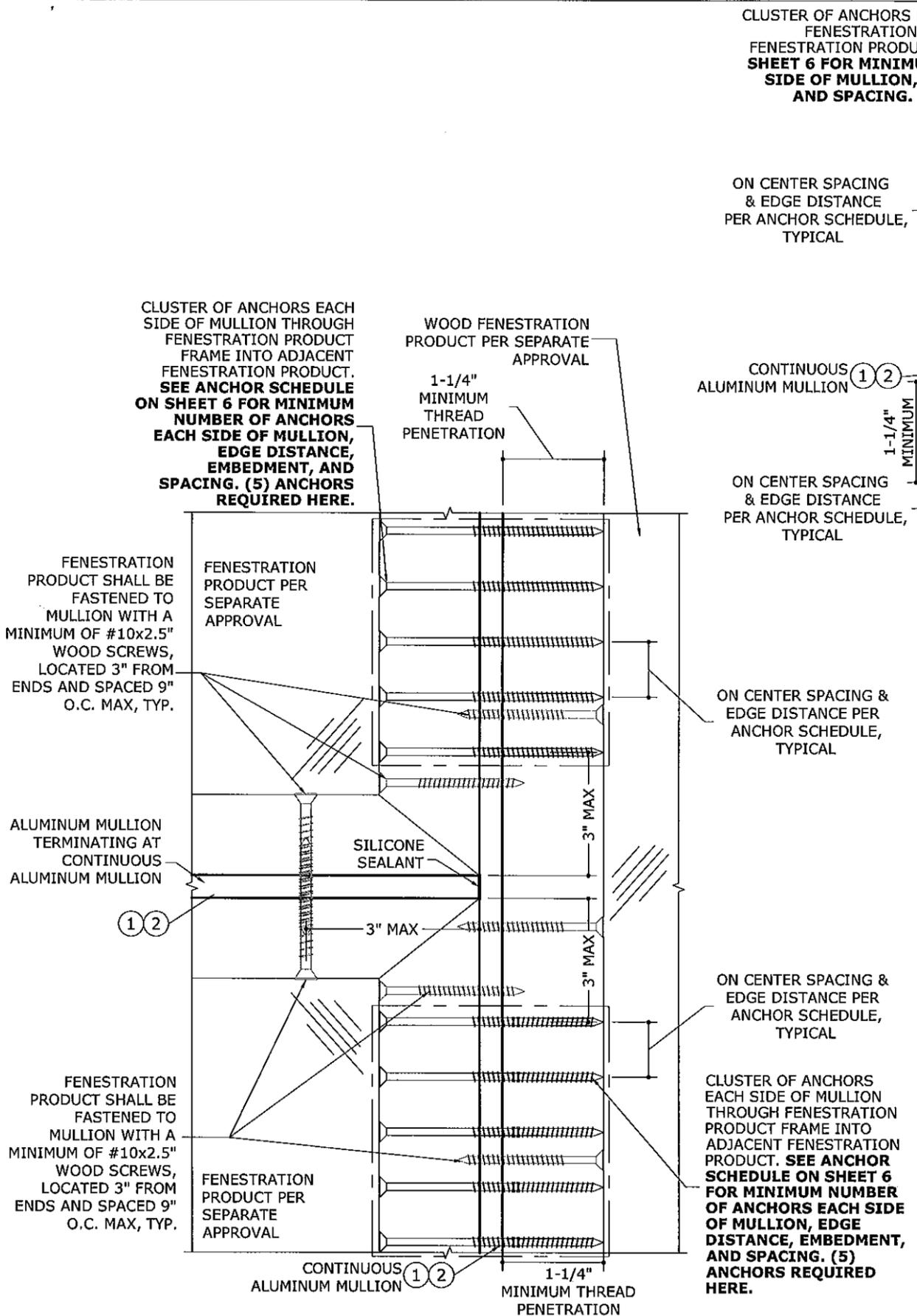
FRANK L. BENNARD, P.E.
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 No. 46102
 06/06/2012
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0660 FAX: (954) 354-0660
 WWW.ENGPX.COM
 CERT. OF AUTH. #9885
 A FRANK L. BENNARD, P.E., INC. INNOVATION

JELD-WEN
 3737 LAKEPORT BOULEVARD
 KLAMATH FALLS, OREGON 97624
 PHONE: 1-800-JELD-WEN (1-800-535-3936)
 UN-CLIPPED ALUMINUM MULLION
 LARGE MISSILE IMPACT RESISTANT
 MIAMI-DADE NOTICE OF ACCEPTANCE

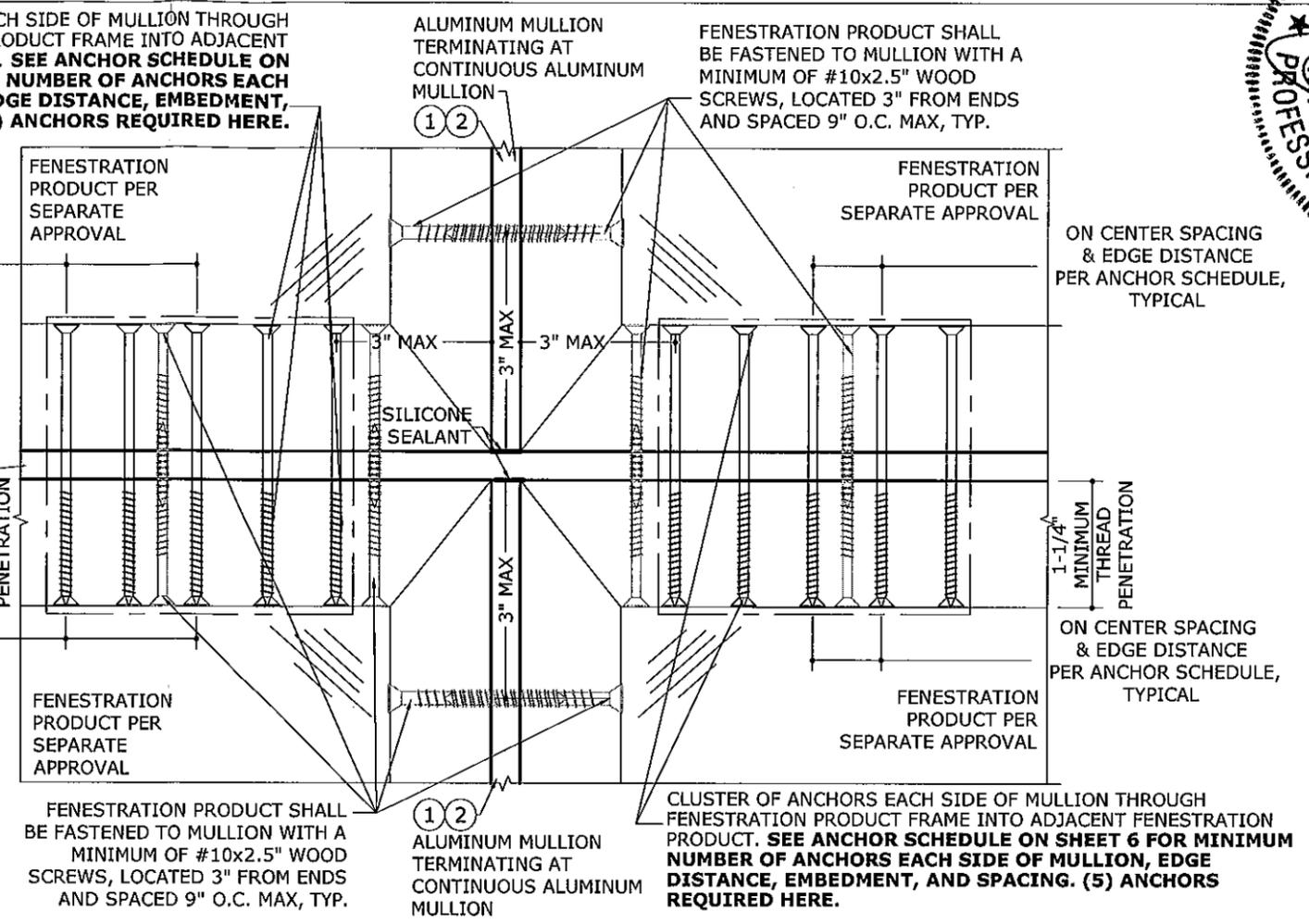
REMARKS	DATE	DRWN	CHKD
INIT ISSUE	08/02/10	KL	FLB
REV. PER BNC COMMENTS	07/26/11	KL	FLB
REV. PER PCS COMMENTS	04/25/12	CSL	TSB
REV. PER PCS COMMENTS	06/06/12	CSL	TSB

10-JWN-0023
 SCALE: 1/32"
 PAGE DESCRIPTION:

06/06/2012 - 11:21am chen \SERVER\01\File Cabinet\01 Project Files\Jeld-Wen (JWN)\201010-JWN-0023 Un-Clipped Aluminum Mullion (NOA).dwg

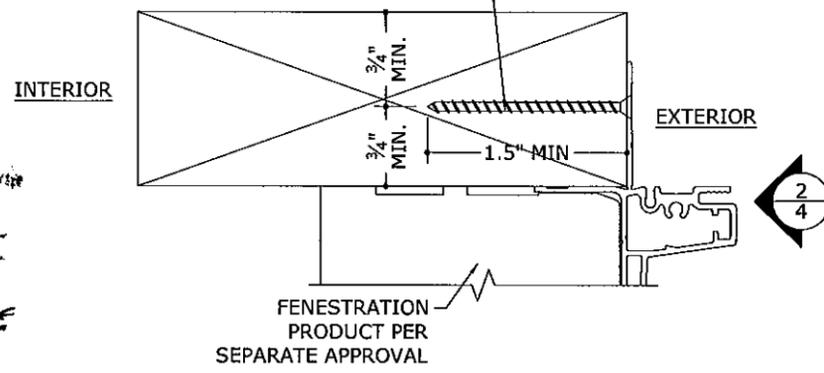


2
5 TYPICAL MULLION INTERSECTION
N.T.S. EXTERIOR ELEV



1
5 TYPICAL MULLION INTERSECTION
N.T.S. EXTERIOR ELEV

(2) #14 WOOD SCREWS EACH SIDE OF MULLION
W/ 1 1/2" MIN THREAD PENETRATION & 3/4" MIN
EDGE DISTANCE TO G=0.55 MIN WOOD OR (2)
1/4" LAG SCREWS EACH SIDE OF MULLION W/ 1 1/2"
MIN THREAD PENETRATION & 3/4" MIN EDGE
DISTANCE TO G=0.55 MIN WOOD.



3
5 TYPICAL NAIL FIN ANCHORAGE
N.T.S. VERT SECTION

Approved as complying with the
Florida Building Code
Date: 6/21/12
NOA# 11-0107-10
Miami Dade Project Control
By: [Signature]

FRANK L. BERNARDO, P.E.
#00046544
06/08/2012
PROFESSIONAL ENGINEER
STATE OF FLORIDA
ENGINEERING EXPRESS
160 SW 12th AVENUE, #105
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #8885
A FRANK L. BERNARDO, P.E., INC. INNOVATION

JELD WEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELD WEN (1-800-535-3936)

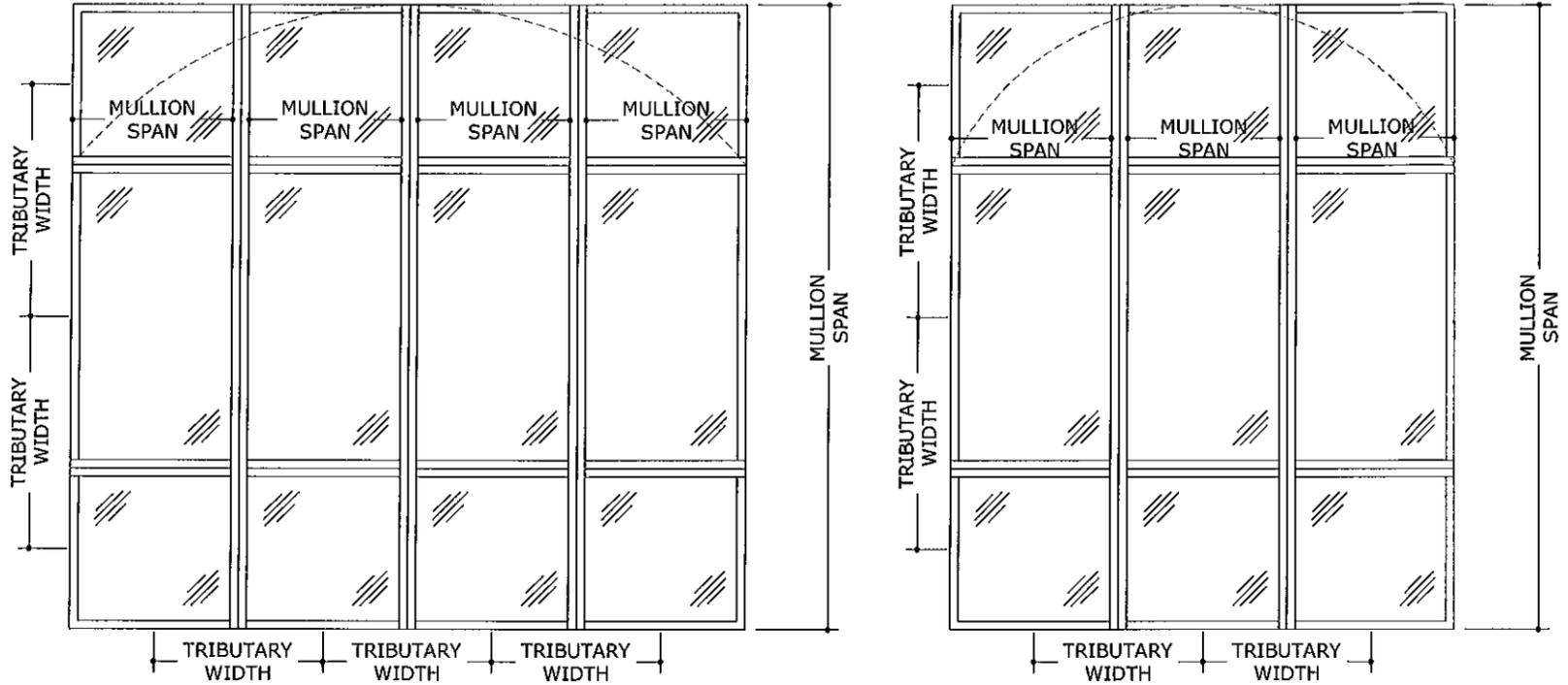
UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	DRWN	CHKD
INT ISSUE	08/02/10	KL	FLB
REV. PER BNC COMMENTS	07/28/11	KL	FLB
REV. PER PCS COMMENTS	04/25/12	CSL	TSB
REV. PER PCS COMMENTS	06/08/12	CSL	TSB

10-JWN-0023
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION: 03
5

I:\SERVER01\file\Cabinet01 - Project Files\Jeld-Wen (JWN)\2010\10-023 Un-Clipped Aluminum Mullion (NOA)\10-023 Un-Clipped Aluminum Mullion (NOA).dwg

ALL TRIBUTARY WIDTHS AS SHOWN SHALL BE PERPENDICULAR TO MULLION SPAN



1 ALLOWABLE CONFIGURATIONS
6 N.T.S.

DESIGN SCHEDULE: SINGLE AND DOUBLE MULLION

MULLION SPAN	TRIBUTARY WIDTH			
	24"	30"	36"	42"
72"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	
68"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	
60"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	
54"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	
48"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0
42"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0
36"	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0	+ 65.0 / - 75.0

DESIGN SCHEDULE NOTES:

- DESIGN SCHEDULES PROVIDE MAXIMUM ALLOWABLE POSITIVE (+) AND NEGATIVE (-) DESIGN PRESSURES FOR USE WITH MULLION SYSTEM IN POUNDS PER SQUARE FOOT (PSF).
- FOR DETERMINATION OF MULLION SPANS AND TRIBUTARY WIDTHS, SEE ELEVATIONS ON SHEET 1.
- DENOTES CONDITIONS NOT APPROVED FOR USE.

Approved as complying with the Florida Building Code
Date 6/21/12
NOA# 11-0107-10
Miami Date Product Control
By Ishag L. Chaudhry

ANCHOR SCHEDULE:

ATTACHMENT TO EXISTING HOST STRUCTURE:

THRU-FRAME ANCHORS (EACH SIDE OF MULLION)-ATTACHMENT TO EXISTING HOST STRUCTURE:

- (2) 3/4" ITW CARBON STEEL TAPCONS PER CLUSTER W/ 1/4" MIN EMBED & 2 1/2" MIN EDGE DISTANCE TO HOLLOW CONCRETE BLOCK OR 3192 PSI MIN CONCRETE; 3" SPACING BETWEEN CLUSTER ANCHORS.
- (4) 3/4" LAG SCREWS PER CLUSTER W/ 1 1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD; 2" SPACING BETWEEN CLUSTER ANCHORS.
- (4) #14 WOOD SCREWS PER CLUSTER W/ 1 1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD; 2" SPACING BETWEEN CLUSTER ANCHORS.

NAIL FIN ANCHORS:

- (2) #14 WOOD SCREWS EACH SIDE OF MULLION W/ 1 1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD. NAIL FIN SHALL BE t=0.045" MIN THICK, 6063-T5 MIN ALUMINUM.
- (2) 1/4" LAG SCREWS EACH SIDE OF MULLION W/ 1 1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD. NAIL FIN SHALL BE t=0.045" MIN THICK, 6063-T5 MIN ALUMINUM.

ATTACHMENT AT INTERSECTING MULLIONS:

THRU-FRAME ANCHORS (EACH SIDE OF MULLION)-ATTACHMENT TO ADJACENT WOOD FENESTRATION PRODUCT (PER SEPARATE APPROVAL):

- (5) REQUIRED 3/4" LAG SCREWS PER CLUSTER W/ 1 1/4" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD; 2" SPACING BETWEEN CLUSTER ANCHORS.
- (5) REQUIRED #10 WOOD SCREWS PER CLUSTER W/ 1 1/4" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE TO G=0.55 MIN WOOD; 2" SPACING BETWEEN CLUSTER ANCHORS.

ANCHOR NOTES:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK.
- CONCRETE ANCHORS SHALL BE INSTALLED TO UN-CRACKED CONCRETE ONLY.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- ANCHOR REQUIREMENTS AS SHOWN HEREIN, INCLUDING MINIMUM EMBEDMENT AND EDGE DISTANCE, EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION.
- ANCHORS HAVE BEEN DESIGNED FOR A MAXIMUM EFFECTIVE ECCENTRICITY OF 0.125".
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- PRESSURE TREATED WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

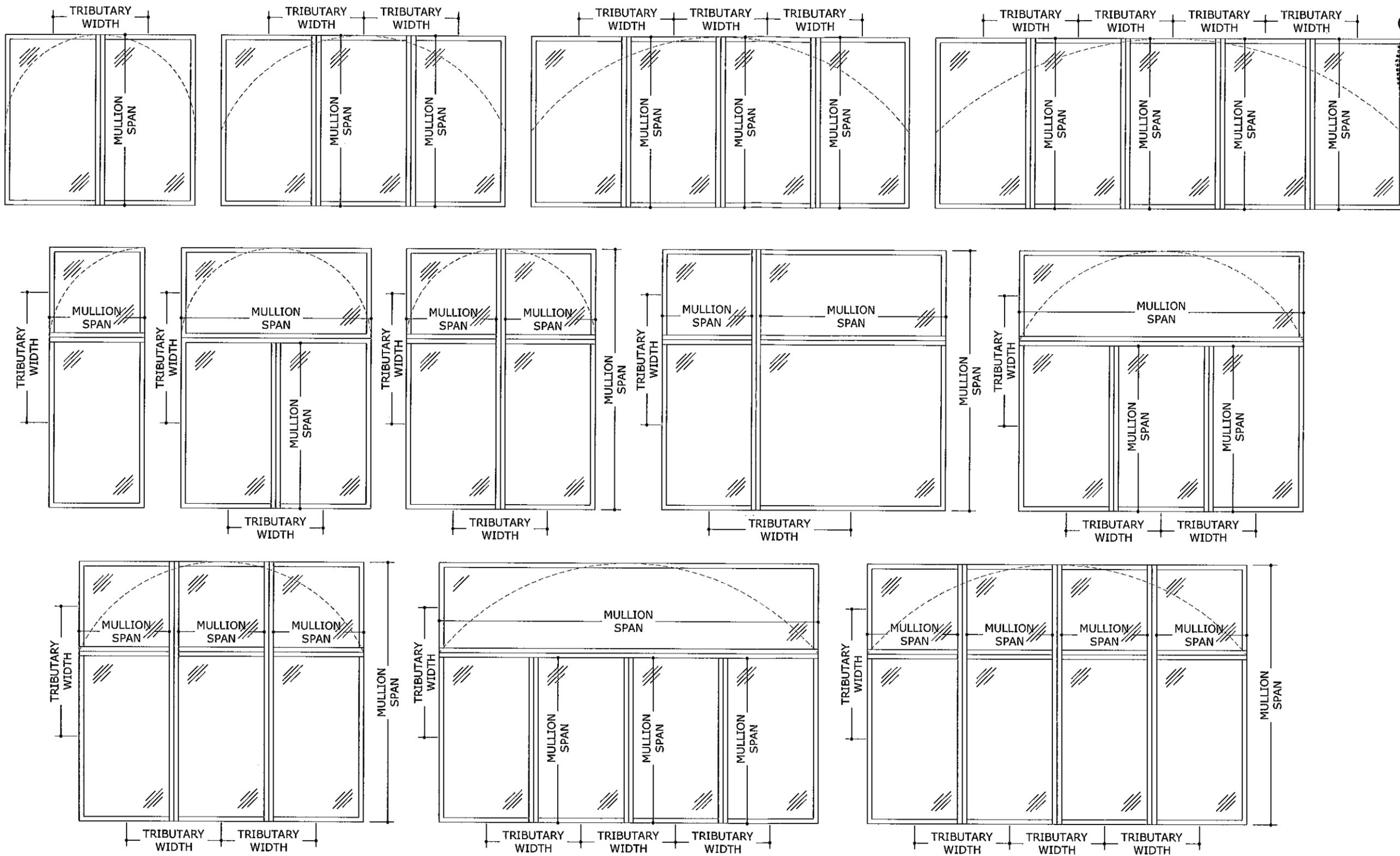
FRANK L. BERNARDO
LICENSE
08/05/0012
STATE OF FLORIDA
PROFESSIONAL ENGINEER
CORPORATE
ENGINEERING EXPRESS
160 SW 12th AVENUE #8062
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0661
WWW.ENGINEXP.COM
CERT OF AUTH #888
A FRANK L. BERNARDO, P.E., INC. INNOVATION

JELD-WEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELD-WEN (1-800-535-3936)

UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	08/02/10
REV. PER BNC COMMENTS	KL	FLB	07/26/11
REV. PER PCS COMMENTS	CSL	TSB	04/25/12
REV. PER PCS COMMENTS	CSL	TSB	06/06/12

10-JWN-0023
SCALE: 1" = 1'-0"
PAGE DESCRIPTION: 03



NOTE: CONFIGURATIONS SHOWN FOR ILLUSTRATIVE PURPOSES. FOR ALLOWABLE SIZES AND SHAPES, SEE SEPARATE APPROVAL FOR INDIVIDUAL PRODUCT. THE LOWER DESIGN PRESSURE OF EITHER THE FENESTRATION PRODUCT (PER SEPARATE APPROVAL) OR THE MULLION SHALL GOVERN FOR THE ENTIRE ASSEMBLY.

1
7 **ADDITIONAL ALLOWABLE CONFIGURATIONS**
N.T.S.

ALL TRIBUTARY WIDTHS AS SHOWN SHALL BE PERPENDICULAR TO MULLION SPAN

Approved as complying with the Florida Building Code
Date: 6/2/12
NOA# 11-0107-10
Miami Dade Product Control
By: Ishag, I. Lhank

FRANK L. BENNARDO
P.E., INC.
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 12442
06/06/2012

ENGINEERING EXPRESS
160 SW 12th Avenue, Suite 210
Deerfield Beach, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0943
WWW.ENGINEERINGEXPRESS.COM
CERT. OF AUTH. #8885
A. FRANK L. BENNARDO, P.E., INC. INNOVATION

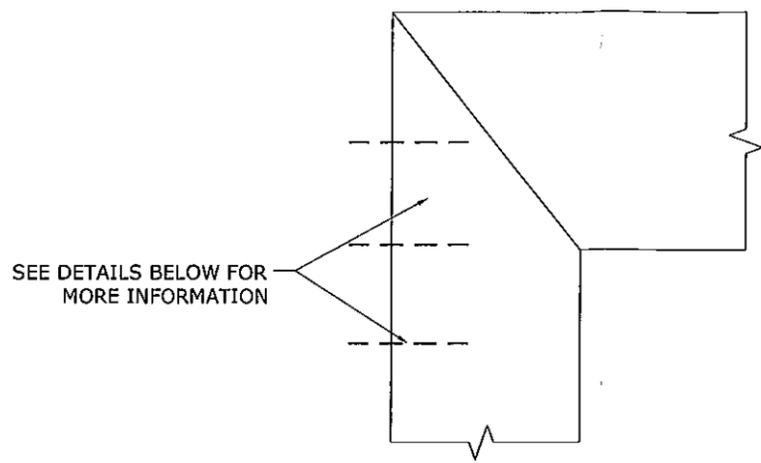
JELD WEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELDWEN (1-800-535-3936)

UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	08/02/10
REV. PER BNC COMMENTS	KL	FLB	07/26/11
REV. PER PCS COMMENTS	CSL	TSB	04/25/12
REV. PER PCS COMMENTS	CSL	TSB	06/06/12

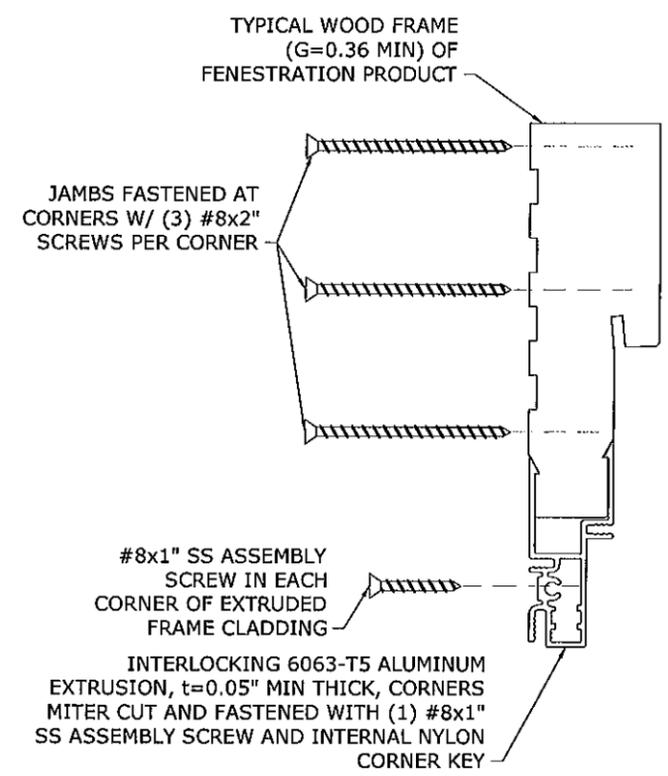
10-JWN-0023
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION: 03
7

\\SERVER01\FileCabinet\01 Project Files\Jeld-Wen (JWN)\201011C-1JWN-0023 Un-Clipped Aluminum Mullion (NOA).dwg 06/06/2012 - 2:20pm chen



SEE DETAILS BELOW FOR MORE INFORMATION

TYPICAL CORNER ASSEMBLY CONSTRUCTION DETAIL



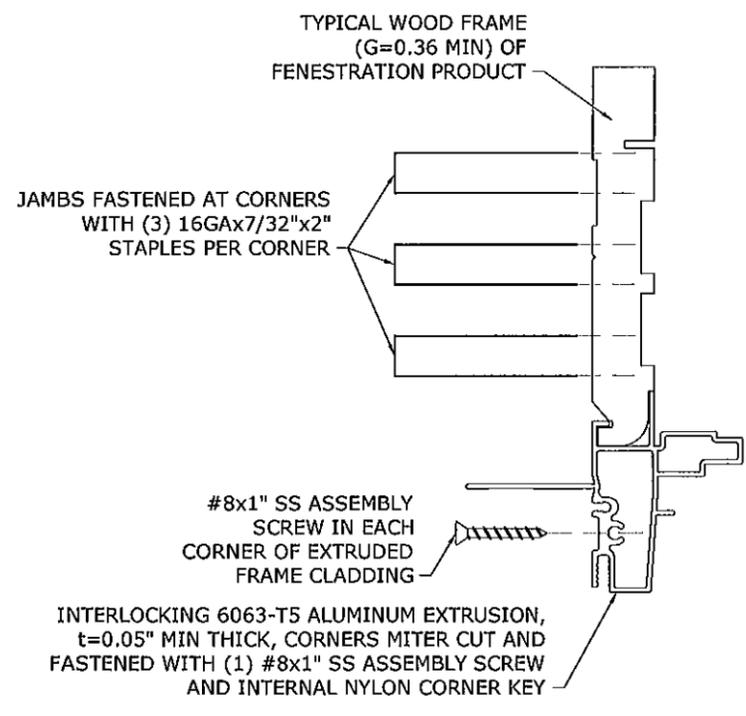
TYPICAL WOOD FRAME (G=0.36 MIN) OF FENESTRATION PRODUCT

JAMBS FASTENED AT CORNERS W/ (3) #8x2" SCREWS PER CORNER

#8x1" SS ASSEMBLY SCREW IN EACH CORNER OF EXTRUDED FRAME CLADDING

INTERLOCKING 6063-T5 ALUMINUM EXTRUSION, t=0.05" MIN THICK, CORNERS MITER CUT AND FASTENED WITH (1) #8x1" SS ASSEMBLY SCREW AND INTERNAL NYLON CORNER KEY

CORNER ASSEMBLY W/ SCREWS



TYPICAL WOOD FRAME (G=0.36 MIN) OF FENESTRATION PRODUCT

JAMBS FASTENED AT CORNERS WITH (3) 16GAx7/32"x2" STAPLES PER CORNER

#8x1" SS ASSEMBLY SCREW IN EACH CORNER OF EXTRUDED FRAME CLADDING

INTERLOCKING 6063-T5 ALUMINUM EXTRUSION, t=0.05" MIN THICK, CORNERS MITER CUT AND FASTENED WITH (1) #8x1" SS ASSEMBLY SCREW AND INTERNAL NYLON CORNER KEY

CORNER ASSEMBLY W/ STAPLES

NOTE: EXTRUSIONS AND WOOD PROFILES OF FENESTRATION PRODUCT MAY VARY, PROVIDED THAT THE FENESTRATION PRODUCT USED WITH THIS MULLION SYSTEM HAS A CURRENT AND VALID PRODUCT APPROVAL, AND IS CONSTRUCTED WITH THE MATERIALS AND MINIMUM CORNER FASTNERS NOTED HEREIN.

MINIMUM CORNER FASTENERS
1
8 N.T.S.

Approved as complying with the Florida Building Code
Date 6/21/12
NOA# 11-0127-12
Miami Dade Product Control
By Ishing L. Chavira

FRANK L. BENNARDO, P.E.
LICENSED PROFESSIONAL ENGINEER
06/06/2012
No. 46649
ENGINEERING EXPRESS
160 SW 12th AVENUE, SUITE 100
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM
CERT. OF AUTH. #8885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

JELD-WEN
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97624
PHONE: 1-800-JELDWEN (1-800-535-3936)
UN-CLIPPED ALUMINUM MULLION
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	08/02/10
REV. PER BNC COMMENTS	KL	FLB	07/26/11
REV. PER PCS COMMENTS	CSL	TSB	04/25/12
REV. PER PCS COMMENTS	CSL	TSB	06/06/12

10-JWN-0023
SCALE: 1/32"
PAGE DESCRIPTION:
8