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-Faroq 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.

NOA No. 13-0411.01
Expiration Date: December 20, 2017
Approval Date: June 20, 2013
Page 1
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.

[Signature]
Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0411.01
Expiration Date: December 20, 2017
Approval Date: June 20, 2013
LAMINATED VENEERED LUMBER (LVL) MULLION SYSTEM WINDOW FRAME MEMBERS INCLUDED IN PROPERTIES

INDEX OF DRAWING

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GENERAL NOTES</td>
</tr>
<tr>
<td>2</td>
<td>WINDOW FRAME DETAILS</td>
</tr>
<tr>
<td>3</td>
<td>DOOR FRAME DETAILS</td>
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<td>4</td>
<td>MULLION DETAILS</td>
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<td>5</td>
<td>CHART FOR 4-9/16&quot; &amp; 6-9/16&quot; MULLIONS WITHOUT HORIZONTALS</td>
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<tr>
<td>6</td>
<td>CHART FOR 4-5/16&quot; &amp; 6-9/16&quot; MULLIONS WITH HORIZONTALS</td>
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<tr>
<td>7-10</td>
<td>DETAILS SHOWS VERTICAL AND HORIZONTAL MULLION CONNECTION WITH FRAME MEMBERS</td>
</tr>
<tr>
<td>11</td>
<td>HORIZ./VERT. MULLION CONNECTION DETAILS WITH BRACKETS</td>
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<tr>
<td>12</td>
<td>HORIZ. MULLION CONNECTION DETAILS WITH OSLSET PLATE</td>
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<tr>
<td>13</td>
<td>VERT. MULLION CONNECTION DETAIL TO HORIZ. MULLION</td>
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</table>

INSTRUCTIONS:

1. DETERMINE THE PRESSURE (LOAD) REQUIREMENTS FOR THE INSTALLATION USING ACE 7 FOR THE OPENING.
2. DEPENDING ON THE "TYPICAL MULLION ARRANGEMENT" ON SHEET 1, SELECT THE MULLION SPAN, TERMINAL 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.
### DESIGN LOAD CAPACITY – PSF

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### Diagram

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

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**PRODUCT REVISED**

as complying with the Florida Building Code Acceptance 

By the Miami Dade Product Control

**MAY 2 8 2013**

**sheet 5 of 13**
### Design Load Capacity - PSP

#### 4-9/16" Mill Span

<table>
<thead>
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#### 6-9/16" Mill Span

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#### 8-9/16" Mill Span

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#### 10-9/16" Mill Span

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**MILL SPAN**

**WIDTH (W) = W1 + W2**

**PRODUCT REVISIONS as complying with the Florida Building Code**

**Acceptance No. 11865**

**Registration No. M1294**

**MAY 2 0 2013**

**By Miami Shade Product Certified**

**Drawing No.**

**Sheet 6 of 13**
#10 x 2-1/2" Screws at 5" from head/sill and 16" o.c. max.

6-9/16" Mullion
4-9/16" Mullion

Casement to casement
Vertical Join

Awning to awning
Horizontal Join

Mullion Type Group No.
4-9/16" 3
6-9/16" 7

#10 x 2-1/2" Screws at 5" from head/sill and 16" o.c. max.

6-9/16" Mullion
4-9/16" Mullion

Casement to casement
Vertical Join

Awning to awning
Horizontal Join

Mullion Type Group No.
4-9/16" 3
6-9/16" 7

#10 x 2-1/2" Screws at 5" from head/sill and 16" o.c. max.

6-9/16" Mullion
4-9/16" Mullion

Casement to flexiframe
Horizontal Join

Awning to flexiframe
Vertical Join

Mullion Type Group No.
4-9/16" 2
6-9/16" 6

#10 x 2-1/2" Screws at 5" from head/sill and 16" o.c. max.

6-9/16" Mullion
4-9/16" Mullion

Casement to flexiframe
Horizontal Join

Awning to flexiframe
Vertical Join

Mullion Type Group No.
4-9/16" 2
6-9/16" 6

See sheet 0 for 'I' values of various groups.
SEE SHEET 9 FOR 'I' VALUES OF VARIOUS GROUPS.
4-9/16" MULLION  
6-9/16" MULLION  
CONNECTION DETAIL W/ BRACKET

ADJ. BRACKET REQD. FOR CONC./MASONRY INSTALLATIONS ONLY WITH (2) ANCHORS TYPE "B" IN OUTER 2 HOLES OF BRACKET

VERT. MULL HEAD CONNECTION

HORIZ. MULL JAMB CONNECTION

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

MULLION AND MULLION COVER

ADJ. BRACKET REQD. FOR CONC./MASONRY INSTALLATIONS ONLY WITH (2) ANCHORS TYPE "B" IN OUTER 2 HOLES OF BRACKET

VERT. MULL SILL CONNECTION

HEAD/SILL BRACKET

(1) REQD. AT NULL END FOR WOOD & METAL STRUCTURES  
(2) REQD. AT NULL END FOR CONC./MASONRY STRUCTURES

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

TYPE 'B' -  
1/4" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, f=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. (6063-15 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 Fc = 3000 PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS f' = 2000 PSI MIN.
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE "A": 1/4" dia. Ultracron by Elco
(Fy=177 ksi, fy=155 ksi)
Into 2BY Wood Bunks or Wood Structures
1-1/2" min. penetration into wood

TYPE "B": 1/4" dia. Ultracron by Elco
(Fy=177 ksi, fy=155 ksi)
Thru 1BY Bunks 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": #8 316 or Self-Drilling Screws (Grade 2 CRS)
Into Metal Structures
Steel: 12 GA. min. (Fy = 36 ksi min.)
Aluminum: 1/8" thick, min. (5063-15 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 Fc = 3000 psi min.
6-90 hollow/filled block at jambs Fn = 2000 psi min.

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

ANCHOR CLIP "B"
304 ST. STEEL

ANCHOR CLIP "A"
304 ST. STEEL

ANCHOR CUPS "A"
(2) PER CUP

ANCHOR CUPS "B" (1) PER CUP

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

MAY 2 0, 2013

PRODUCT REVISED to complying with the Florida Building Code
Permit No. 02-018225

By: Miami-Endo Product Control

M05-01
Sheet 12 of 15
VERT. MULLION CONNECTION TO HORIZONTAL MULLION

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In X 3/4" screws
3 per side

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PRODUCT REvised
as complying with the Florida
Building Code.
Acceptance No.
Registration Date.

By

MAY 2.0.2013

Ex: [Design Professional]

Drawing No.
M06-01
Sheet 13 of 13