ANDERSEN CORPORATION

E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (1-PC FRAME)

(NON-HVHZ) (NON-IMPACT)

GENERAL NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC). EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   • AAMA/WOMA/C5A 101/5.5.2/AA440 08/11
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEViate FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: ALUMINUM CLAD WOOD.
7. MULLION MATERIAL: LAMINATED VENEER LUMBER.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE SHEET 2 FOR GLAZING DETAILS.
9. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
   • X: OPERABLE PANEL
   • O: FIXED PANEL
10. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SHEET</th>
<th>REVISION</th>
<th>SHEET DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B</td>
<td>GENERAL NOTES AND GLAZING DETAILS</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>ELEVATIONS AND QUALIFIED CONFIGURATIONS</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>MULLED ELEVATIONS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>ANCHOR LAYOUTS</td>
</tr>
<tr>
<td>5</td>
<td>B</td>
<td>MULLED ANCHOR LAYOUTS</td>
</tr>
<tr>
<td>6</td>
<td>B</td>
<td>VERTICAL SECTIONS</td>
</tr>
<tr>
<td>7</td>
<td>B</td>
<td>MULLED VERTICAL SECTIONS</td>
</tr>
<tr>
<td>8</td>
<td>B</td>
<td>HORIZONTAL SECTIONS</td>
</tr>
<tr>
<td>9</td>
<td>B</td>
<td>MULLED HORIZONTAL SECTIONS</td>
</tr>
<tr>
<td>10</td>
<td>B</td>
<td>ANCHOR DETAILS</td>
</tr>
<tr>
<td>11</td>
<td>B</td>
<td>ZERO MULLION LOADS TABLE - ONE WAY</td>
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<tr>
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<td>2&quot; x 3-1/2&quot; MULLION LOADS TABLE - TWO WAY</td>
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<td>27</td>
<td>B</td>
<td>2&quot; x 5-3/16&quot; MULLION LOADS TABLE - ONE WAY</td>
</tr>
<tr>
<td>28</td>
<td>B</td>
<td>2&quot; x 5-3/16&quot; MULLION LOADS TABLE - TWO WAY</td>
</tr>
</tbody>
</table>

NOTE:
NAILING FLANGE INSTALLATIONS ARE LIMITED TO INDIVIDUAL UNITS OR ASSEMBLIES EQUAL TO OR LESS THAN +50/-50 AND EQUAL TO OR LESS THAN 30 SQUARE FEET.
NOTE:

1. THE ARCHITECT OR ENGINEER OF RECORD MUST ENGINEER THE BUICK AND FRAME ANCHORING FOR THE GEOMETRIC SHAPES THAT DO NOT HAVE ANCHORING SHOWN IN THIS DRAWING.

2. GEOMETRIC SHAPES MUST FIT WITHIN THE BOUNDING BOX DIMENSIONS OF 72" x 96" OR 96" x 72" OR 54" x 120" OR 120" x 54".

3. WHEN MULLING THE RECTANGULAR OR SQUARE SERIES 13 TO A GEOMETRIC SHAPE, ONLY MULL TO THE SIDE DESIGNATED BY AS SHOWN ON THIS SHEET.

NOTE:

WINDOW WIDTH AND HEIGHT ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM QUALIFIED SQUARE FOOT AREA.

ALLOWSABLE SHAPES

NOTE:
SEE NOTE 2 FOR SIZE RESTRICTIONS
NOTE:
REFER TO SHEETS 11-28 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES
STRAP/FASTENER THROUGH FRAME ANCHORING
RETANGULAR/SQUARE SINGLE UNIT

STRAP/FASTENER THROUGH FRAME ANCHORING
TRAPEZOID SINGLE UNIT

STRAP/FASTENER THROUGH FRAME ANCHORING
RADIUS SINGLE UNIT

VINYL FIN ANCHORING
SINGLE UNIT

ALUMINUM FIN ANCHORING
SINGLE UNIT

NOTE:
NAILING FLANGE INSTALLATIONS ARE LIMITED TO INDIVIDUAL UNITS OR ASSEMBLIES EQUAL TO OR LESS THAN DP +50/-50 AND EQUAL TO OR LESS THAN 30 SQUARE FEET.

NOTE:
FOR MOREAnchor INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES, SEE SHEET 10
STRAP/FASTENER THROUGH FRAME ANCHORING
MULLED UNIT (2" MULLION) HORIZONTAL CONFIGURATION

NOTE:
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES), SEE SHEET 10

DETAIL 1

OPTIONAL SCREW ASSEMBLY OF MULLION

DESIGN PRESSURE | "A" DIMENSION
----------------|-----------------
UP TO 60 PSF    | 9" MAX. O.C.
UP TO 70 PSF    | 8" MAX. O.C.
UP TO 80 PSF    | 7" MAX. O.C.

DETAIL 2

OPTIONAL SCREW ASSEMBLY OF MULLION

DESIGN PRESSURE | "A" DIMENSION
----------------|-----------------
UP TO 60 PSF    | 9" MAX. O.C.
UP TO 70 PSF    | 8" MAX. O.C.
UP TO 80 PSF    | 7" MAX. O.C.
SEE SHEET 1 FOR GLAZING OPTIONS

O.A. WINDOW FRAME HEIGHT

D.L.O.

VERTICAL SECTION

INSULATED GLASS

SEE SHEET 1 FOR GLAZING OPTIONS

D.L.O.

INTERIOR

EXTERIOR

SEE SHEET 1 FOR GLAZING OPTIONS

D.L.O.

OPTIONAL MUNTIN BAR ATTACHMENT TO GLASS

1 1/2" MDL BAR
1 1/2" MDL ADHESIVE TAPE
1 1/8" MDL BAR
1 1/8" MDL ADHESIVE TAPE
7/8" MDL BAR
7/8" MDL ADHESIVE TAPE
SEE SHEET 1 FOR GLAZING OPTIONS

VERTICAL SECTION

A

1/2" x 3 1/2" MULLION
OR 1/2" x 5 3/16"

INSLUATED GLASS

B

3/4" x 3 1/2" MULLION
OR 3/4" x 5 3/16"

INSLUATED GLASS

C

1" x 3 1/2" MULLION
OR 1" x 5 3/16"

INSLUATED GLASS

D

2" x 3 1/2" MULLION
OR 2" x 5 3/16"

INSLUATED GLASS

NOTE: LVL MULLS BETWEEN JAMBS MAY BE 3 1/2" OR 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES
SEE SHEET 1 FOR GLAZING OPTIONS

HORIZONTAL SECTION

A

INTERIOR

B

HORIZONTAL SECTION

EXTERIOR

C

HORIZONTAL SECTION

INTERIOR

HORIZONTAL SECTION

EXTERIOR

D.L.O.

8

HORIZONTAL SECTION

INSULATED GLASS

ZERO MULLION

8

HORIZONTAL SECTION

INSULATED GLASS

8

HORIZONTAL SECTION

INSULATED GLASS

8/15/2019 10:19 AMs:

FL24230

DATE:

10.12.17

DWG. #:

AWD211

SCALE:

NTS

PREPARED BY:

RV

CHECKED BY:

HFN

REMARKS

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
**E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (1-PC FRAME)**

**NON-HVHZ**

**NON-IMPACT**

**NOTE:** LV1 MULLS BETWEEN JAMBS MAY BE 3 1/2" OR 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES.

**A**

**HORIZONTAL SECTION**

INSULATED GLASS 1/2" X 3-1/2" MULLION OR 1" X 5 3/16"

SEE GLAZING DETAILS SHEET 1

**B**

**HORIZONTAL SECTION**

INSULATED GLASS 3/4" X 3-1/2" MULLION OR 3/4" X 5 3/16"

SEE GLAZING DETAILS SHEET 1

**C**

**HORIZONTAL SECTION**

INSULATED GLASS 1/2" X 3-1/2" MULLION OR 1" X 5 3/16"

SEE GLAZING DETAILS SHEET 1

**D**

**HORIZONTAL SECTION**

INSULATED GLASS 2" X 3-1/2" MULLION OR 2" X 5 3/16"

SEE GLAZING DETAILS SHEET 1

**SEE GLAZING DETAILS SHEET 1**

**INTERIOR**

**EXTERIOR**
1. One (1) installation anchor is required at each anchor location shown, unless otherwise stated.

2. The number of installation anchors depicted is the minimum number of anchors to be used for product installation.

3. Install individual installation anchors within a tolerance of ±1/2 inch of the depicted location in the anchor layout detail (i.e., without consideration of tolerances). Tolerances are not cumulative from one installation anchor to the next.

4. Minimum embedment and edge distance exclude wall finishes, including but not limited to stucco, foam, brick veneer, and siding.

5. Shim as required at each installation anchor with load bearing shim(s). Maximum allowable shim stack is 3/8 inch. Shim(s) shall be constructed of high density plastic or better.

6. Installation anchors and associated hardware must be made of corrosion resistant material or have a corrosion resistant coating.

7. For hollow block and grout filled block, do not install installation anchors into mortar joints. Edge distance is measured from free edge of block or edge of mortar joint into face shell of block.

8. Installation anchors shall be installed in accordance with anchor manufacturer’s installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

---

### Anchor Details

**Installing anchors**

<table>
<thead>
<tr>
<th>Installation Anchor Type</th>
<th>Qty Per Location</th>
<th>Substrate</th>
<th>Anchor Type</th>
<th>Embedment (IN.)</th>
<th>Edge Distance (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strap</strong></td>
<td></td>
<td></td>
<td>#8 Wood Anchor</td>
<td>1.50</td>
<td>0.75</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Wood</td>
<td>3/16&quot; ITW Tapcon</td>
<td>1.25</td>
<td>2.50</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Metal Stud</td>
<td>10 Self-Tapping Screw</td>
<td>3 Threads</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Thru Frame</strong></td>
<td></td>
<td></td>
<td>#8 Wood Anchor</td>
<td>1.50</td>
<td>0.75</td>
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<tr>
<td>1</td>
<td></td>
<td>Wood</td>
<td>3/16&quot; ITW Tapcon</td>
<td>1.25</td>
<td>2.50</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Metal Stud</td>
<td>10 Self-Tapping Screw</td>
<td>3 Threads</td>
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<td>#8 Wood Anchor</td>
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<td>0.75</td>
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<td>Wood</td>
<td>11 GA Roofing Nail</td>
<td>1.50</td>
<td>0.75</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Metal Stud</td>
<td>10 Self-Tapping Screw</td>
<td>3 Threads</td>
<td>N/A</td>
</tr>
</tbody>
</table>
NOTE:
1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
6) TRIBUTARY WIDTH = W = (A+B)/2
7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

### Maximum Design Pressure Capacity Chart (PSF)

| L - Mull Length (in) | 24.0 | 30.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 108.0 | 120.0 | 132.0 | 144.0 | 156.0 | 168.0 | 180.0 | 192.0 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| W - Tributary Width (in) | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 |

**Zero Structural Mullion (One-Way Configuration)**
1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH $= W = (A+B)/2$

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

### Maximum Design Pressure Capacity Chart (PSF)

<table>
<thead>
<tr>
<th>L - Mull Length (in)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>60.0</th>
<th>72.0</th>
<th>84.0</th>
<th>96.0</th>
<th>108.0</th>
<th>120.0</th>
<th>132.0</th>
<th>144.0</th>
<th>156.0</th>
<th>168.0</th>
<th>180.0</th>
<th>192.0</th>
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<tbody>
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<td>75.00</td>
<td>75.00</td>
<td>75.00</td>
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<td></td>
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<td>9.57</td>
<td>8.99</td>
<td>8.30</td>
<td>7.78</td>
</tr>
</tbody>
</table>

**Diagram Illustration:**
- **Zero Mullion Profile**

**Table Notes:**
- **L- Multi Length:**
- **W- Mull Width:**

---

**Diagram Elements:**
- L: Length
- W: Width

---

**Scale:**
- NTS

**Drawn By:**
- RV

**Drawn By:**
- HFN

**Prepared By:**
- RV

**Date:**
- 10.12.17
NOTE:

1) MULLION CHART APPLIES TO 1/2” X 3-1/2” LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH = W = (A+B)/2

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.
NOTE:

1) MULLION CHART APPLIES TO 1/2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
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3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
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5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
6) TRIBUTARY WIDTH = W = (A+B)/2
7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.
NOTE:

1) MULLION CHART APPLIES TO 1/2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

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DATE: 10.12.17
DRAWN: HFN
CHECKED: HFN
SCALE: NTS
DWG. #: AWD211

1/2" X 5 3/16" LVL MULL PROFILE
NOTE:

1) MULLION CHART APPLIES TO 3/4" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

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### MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)

**3/4" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION**

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**NOTE:**

1) MULLION CHART APPLIES TO 3/4" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH = W = (A+B)/2

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.
**NOTE:**

1) **MULLION CHART APPLIES TO 3/4” X 5-3/16” LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.**

2) **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**

3) **MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.**

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5) **MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.**

6) **TRIBUTARY WIDTH = W = (A+B)/2**

7) **WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.**

### 3/4” X 5 3/16” LVL MULL PROFILE

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**3/4” X 5-3/16” STRUCTURAL MULLION (ONE-WAY) CONFIGURATION**
NOTE:
1) MULLION CHART APPLIES TO 3/4" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
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NOTE:

1) MULLION CHART APPLIES TO 1" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.

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1" X 3 1/2" LVL MULL PROFILE
**NOTE:**

1) **MULLION CHART APPLIES TO 1" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.**

2) **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**

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5) **MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.**

6) **TRIBUTARY WIDTH = W = (A+B)/2**

7) **WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.**

### Maximum Design Pressure Capacity Chart (P3P)

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<th>L - Mul Length (in)</th>
<th>24.0</th>
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</table>

### 1" X 5 3/16" LVL MULL PROFILE

![1" X 5 3/16" LVL MULL PROFILE](image-url)
NOTE:

1) MULLION CHART APPLIES TO 1" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH = \( W = \frac{A+B}{2} \)

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

### 1" x 5 3/16" LVL MULL PROFILE

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#### Maximum Design Pressure Capacity Chart (PSF)

<table>
<thead>
<tr>
<th>L - Mull (Length)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>60.0</th>
<th>72.0</th>
<th>84.0</th>
<th>108.0</th>
<th>120.0</th>
<th>132.0</th>
<th>144.0</th>
<th>156.0</th>
<th>160.0</th>
<th>180.0</th>
<th>192.0</th>
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<tbody>
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<td>W - Tributary Width (in)</td>
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</tbody>
</table>

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#### Tributary Width Formula

\[ W = \frac{A+B}{2} \]

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### Diagram of E-Series Fixed Casement Window - Direct Set (1-PC Frame) (NON-HVHZ) (NON-IMPACT)
**NOTE:**

1) MULLION CHART APPLIES TO 2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH = W = (A+B)/2

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

### Table: 2" X 3 1/2" LVL MULL PROFILE

| L - Mull (in) | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 | 72.0 | 74.0 | 76.0 | 78.0 | 80.0 | 82.0 | 84.0 | 86.0 | 88.0 | 90.0 | 92.0 | 94.0 | 96.0 | 98.0 | 100.0 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| W - Tributory Width (in) | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 | 72.0 | 74.0 | 76.0 | 78.0 | 80.0 | 82.0 | 84.0 | 86.0 | 88.0 | 90.0 | 92.0 | 94.0 | 96.0 | 98.0 | 100.0 |

- 2" X 3 1/2" MULLION LOADS TABLE (ONE WAY)

#### Diagram:

- 2" X 3 1/2" LVL MULL PROFILE

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**FL24230**

**DATE:** 10.12.17

**DWG. #:** AWD211

**SCALE:** NTS

**REMARKS:**

- 6TH FBC CODE CHANGE RV 10.17.17
- ADDED MULL & DP CHARTS LL 8.5.19
NOTE:

1) MULLION CHART APPLIES TO 2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
2" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

W - Tributary Width (in)

<table>
<thead>
<tr>
<th>L - Mull Length (in)</th>
<th>24.0</th>
<th>36.0</th>
<th>48.0</th>
<th>60.0</th>
<th>72.0</th>
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2" X 3 1/2" LVL MULL PROFILE

TRIBUTARY WIDTH = W = (A+B)/2

WEIGHT OF UNITS ABOVE = W = (A+B)/2

Design Pressure of Assembly = MINIMUM OF

Design Pressure of Mullion Assembly
Design Pressure of Individual Unit
NOTE:

1) MULLION CHART APPLIES TO 2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.

2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.

3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.

4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.

5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.

6) TRIBUTARY WIDTH = W = (A+B)/2

7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.
NOTE:
1) MULLION CHART APPLIES TO 2" X 5-3/16" lvl mull assemblies, when mulled in two-way configurations.
2) Design pressure values are positive and negative in psf.
3) Maximum deflection has been limited to L/175.
4) Design pressure of assembly is limited to the lesser design pressure of the mullion assembly or the individual unit of installation. Adjacent windows or doors shall be under separate fl or miami-dade approval.
5) Mullion chart applies to the following installation conditions listed on sheet 10.
6) Tributary width = W = (A+B)/2
7) When windows are stacked vertically, the manufacturer/installer shall ensure that the weight of units above will not cause deflections or stresses which will affect operation or structural adequacy of units below.