ANDERSEN CORPORATION

E-SERIES CASEMENT WINDOW

(WZ3)(IMPACT)

GENERAL NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - AAMA/WDMA/CSA 101/5.1.5/8440-08/11
   - ASTM E1886-05
   - ASTM E1996-12
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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. 3X AND 2X BLOCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE BUILDING FRAME. 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 IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. WINDOW FRAME MATERIAL: WOOD / ALUMINUM
8. MULLION MATERIAL: LAMINATED VENEER LUMBER
9. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
    - X: OPERABLE PANEL
    - O: FIXED PANEL
11. CUSTOM SIZES AVAILABLE UPON REQUEST. Custom design pressure will be assigned equal to next larger standard size.

GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300
2. GLASS TYPE SHOWN ON SHEET 1.
3. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300.
4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC.

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<td>D</td>
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<td>11</td>
<td>D</td>
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<td>2&quot; x 5-3/16&quot; MULLION LOADS TABLE - TWO WAY</td>
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</tbody>
</table>

GLAZING DETAIL G1

GLAZING DETAIL G2

WINDOW TYPE | OVERALL FRAME SIZE | OVERALL G.L.O. DIMENSION | GLASS TYPE | NO. LOCK POINTS | DESIGN PRESSURE [PSI] |
-------------|--------------------|--------------------------|------------|----------------|----------------------|
SINGLE      | 36.0               | 72.0                      | G1         | 3              | +65                  | -75                  |
SINGLE      | 36.0 66.0          | 29.87 59.87               | G1         | 2              | +65                  | -75                  |
SINGLE      | 36.0               | 29.87 59.87               | G2         | 2              | +65                  | -75                  |
**ELEVATION SINGLE UNIT**

**UNIT MAX. HEIGHT** 72.0”

**D.L.O. MAX. HEIGHT** 65.87”

**KEEPER LOCATION**

<table>
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<tr>
<th>FRAME HEIGHT</th>
<th>E (IN)</th>
<th>F (IN)</th>
<th>G (IN)</th>
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<tr>
<td>&lt;32</td>
<td>15.750</td>
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<tr>
<td>36</td>
<td>11.500</td>
<td>21.750</td>
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<td>11.500</td>
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<tr>
<td>48</td>
<td>11.500</td>
<td>39.750</td>
<td></td>
</tr>
<tr>
<td>52</td>
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</tr>
<tr>
<td>56</td>
<td>11.500</td>
<td>51.750</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>11.500</td>
<td>34.656</td>
<td>57.812</td>
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</table>
NOTE:
REFER TO SHEETS 11-28 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES
NOTE:

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

ANCHOR LAYOUT

THROUGH FRAME

ALUMINUM FIN ANCHORING

SINGLE UNIT

6.0" MAX.
FROM CORNER

15.5°
MAX O.C.

"X"

12.0°
MAX O.C.

3.0° MAX.
FROM CORNER

6" MAX

ANCHOR LAYOUTS

SHEET

DWG. #:

4

AWD201

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

FAX: (954)744.4738

WEB: www.buildingdrops.com

SCALE:

NTS

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.
ALUMINUM FIN ANCHORING
SINGLE UNIT

NOTE:
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES) SEE SHEET 10
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OPTIONAL MUNTIN BAR ATTACHMENT TO GLASS

VERTICAL SECTION

ZERO MULLION

INSULATED GLASS

A

INTERIOR

SEE GLAZING DETAIL SHEET 1

EXTERIOR

D.L.O.

O.A. FRAME HEIGHT

B

EXTERIOR

INTERIOR

SEE GLAZING DETAIL SHEET 1

SEE GLAZING DETAIL SHEET 1

D.L.O.

O.A. FRAME HEIGHT

C

SEE GLAZING DETAIL SHEET 1

SEE GLAZING DETAIL SHEET 1

D.L.O.

O.A. FRAME HEIGHT

1-1/2" MDL

1-1/8" MDL

7/8" MDL
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.

NOTE: LVL MULL BETWEEN JAMBS MAY BE 3 1/2" OR 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES.
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.
**A** **HORIZONTAL SECTION**

**INSULATED GLASS**

1/2" x 3-1/2" MULLION OR 1/2" x 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES

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

---

**B** **HORIZONTAL SECTION**

**INSULATED GLASS**

3/4" x 3-1/2" MULLION OR 3/4" x 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES

---

**C** **INSULATED GLASS**

1" x 3-1/2" MULLION OR 1" x 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES

---

**D** **HORIZONTAL SECTION**

**INSULATED GLASS**

2" x 3-1/2" MULLION OR 2" x 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES
INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.

3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.

4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8" INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS.

5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

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 SCHEDULE

<table>
<thead>
<tr>
<th>INSTALLATION TYPE</th>
<th>QTY PER</th>
<th>SUBSTRATE</th>
<th>ANCHOR TYPE</th>
<th>EMBEDMENT (IN.)</th>
<th>EDGE DISTANCE (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRAP</td>
<td>2</td>
<td>WOOD</td>
<td>#8 WOOD ANCHOR</td>
<td>1.5000</td>
<td>0.75</td>
</tr>
<tr>
<td>STRAP</td>
<td>2</td>
<td>CONCRETE/MASONRY</td>
<td>3/16&quot; ITW TAPCON</td>
<td>1.2500</td>
<td>2.50</td>
</tr>
<tr>
<td>STRAP</td>
<td>2</td>
<td>METAL STUD</td>
<td>#8 SELF-TAPPING SCREW</td>
<td>3 THREADS</td>
<td>0.75</td>
</tr>
<tr>
<td>THRU FRAME</td>
<td>1</td>
<td>WOOD</td>
<td>#10 WOOD ANCHOR</td>
<td>1.5000</td>
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<tr>
<td>THRU FRAME</td>
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<td>CONCRETE/MASONRY</td>
<td>3/16&quot; ITW TAPCON</td>
<td>1.2500</td>
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<td>THRU FRAME</td>
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<td>METAL STUD</td>
<td>#10 SELF-TAPPING SCREW</td>
<td>3 THREADS</td>
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<tr>
<td>ALUMINUM NAILING FLANGE</td>
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<td>11 GA. ROOFING NAIL</td>
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<td>ALUMINUM NAILING FLANGE</td>
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<td>3 THREADS</td>
<td>0.75</td>
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</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 AS 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.
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NOTE:
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17

**NOTE:**

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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.**

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### Maximum Design Pressure Capacity Chart (PSF)

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<th>L \ M - Mult. Length (in)</th>
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<th>28.0</th>
<th>30.0</th>
<th>32.0</th>
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<th>36.0</th>
<th>38.0</th>
<th>40.0</th>
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<th>44.0</th>
<th>46.0</th>
<th>48.0</th>
<th>50.0</th>
<th>52.0</th>
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### 3/4" X 3 1/2" LVL Mull Profile

3/4" X 3-1/2" LVL MULL PROFILE

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**NOTE:**

1) **MULLION CHART APPLIES TO 3/4" X 3-1/2" 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 AS 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" 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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### Diagram: 3/4" X 5 3/16" LVL MULL PROFILE

- **A** and **B** represent dimensions for mullion profile.

### Formula

- \( L = \frac{A + B}{2} \)

### Scale: NTS

### Date: 10.09.17

### Amendments:

- Added zero, 1/2", 1" & 2" mull
- Updated mull table HR 4/12
- Updated dp charts LL 7/30
- Updated E-SERIES CASEMENT WINDOW (WZ3) IMPACT
- Added 100 FOURTH AVE. NORTH BAYPORT, MN 55003-1096 PH: (651) 264-5150 FX: (651) 264-5485
- Added STATE OF FLORIDA BUILDING CODE

### Sheet: 20
NOTE:
1) MULLION CHART APPLIES TO 1" X 3-1/2" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFORMATION 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 AS 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.
NOTE:
1) MULLION CHART APPLIES TO 1" X 3-1/2" 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 AS LISTED ON SHEET 10
6) TRIBUTARY WIDTH = W = (A+B)/2
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NOTE:

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

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NOTE:

1) MULLION CHART APPLIES TO 2" X 3-1/2" 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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