1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE FOR THE DESIGN PRESSURES LISTED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (AER) OR ARCHITECT OF RECORD, (AOR).

3) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVER-ALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

4) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPACHED ON THEM BY THE WINDOW.

5) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE 2006 TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE.

---

**TABLE 1:**

<table>
<thead>
<tr>
<th>Window Buckle Size</th>
<th>Reinf. Level</th>
<th>Design Pressure (+) psf</th>
<th>Design Pressure (-) psf</th>
<th>Certification (CAR) Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 36&quot;</td>
<td>Height: 71.593&quot;</td>
<td>Standard</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Width: 34.365&quot;</td>
<td>Height: 75&quot;</td>
<td>Standard</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Width: 36&quot;</td>
<td>Height: 84&quot;</td>
<td>HD</td>
<td>65</td>
<td>70</td>
</tr>
</tbody>
</table>

---

**VINYL CASEMENT WINDOW TDI (IMP.-RES.)**

**GENERAL NOTES & ELEVATIONS**

**J ROSOWSKI**

**ANTHONY LYNN MILLER, P.E.**

**PGT**

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

**VINYL CASEMENT WINDOW TDI (IMP.-RES.)**

**GENERAL NOTES & ELEVATIONS**

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### TABLE 2: ANCHORS INSTALLED THROUGH FRAME

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>Min. Edge Distance</th>
<th>Min. Embedment</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10 SMS</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>7/16&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Steel, A36</td>
<td>3/8&quot;</td>
<td>0.050&quot;</td>
</tr>
<tr>
<td></td>
<td>Steel Stud, A653 Gr. 33</td>
<td>3/8&quot;</td>
<td>0.0346&quot; (20 Ga.)</td>
</tr>
<tr>
<td></td>
<td>Aluminum, 6063-T5</td>
<td>3/8&quot;</td>
<td>0.050&quot;</td>
</tr>
<tr>
<td>#12 SMS</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>9/16&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Steel, A36</td>
<td>3/8&quot;</td>
<td>0.050&quot;</td>
</tr>
<tr>
<td></td>
<td>Steel Stud, A653 Gr. 33</td>
<td>3/8&quot;</td>
<td>0.0346&quot; (20 Ga.)</td>
</tr>
<tr>
<td></td>
<td>Aluminum, 6063-T5</td>
<td>3/8&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>3/16&quot; Ultracon (steel)</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>7/16&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>Max. DP of 50.0</td>
<td>Concrete (min. 2.85 ksi)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>1/4&quot; Ultracon (steel)</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Concrete (min. 2.85 ksi)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Ungrouted CMU (ASTM C-90)</td>
<td>2-1/2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td>1/4&quot; Crepe-Flex (410 S.S.)</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Concrete (min. 3.35 ksi)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Ungrouted CMU (ASTM C-90)</td>
<td>2-1/2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Concrete (min. 3.35 ksi)</td>
<td>2-1/2&quot;</td>
<td>1-3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Ungrouted CMU (ASTM C-90)</td>
<td>2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td>1/4&quot; Aggre-Gator (18-8 S.S.)</td>
<td>Concrete (min. 3.275 ksi)</td>
<td>1-1/2&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Ungrouted CMU (ASTM C-90)</td>
<td>2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

**ANCHOR NOTES:**

1) "UNGRAOUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATION.

2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.

3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

### TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>Min. Edge Distance</th>
<th>Min. Embedment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1/2&quot; x 131/2&quot; Common Nail (Max. DP of 50 psf)</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>9/16&quot;</td>
<td>2.7/16&quot;</td>
</tr>
<tr>
<td>2-1/2&quot; x 131/2&quot; Ring Shank Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>9/16&quot;</td>
<td>2.7/16&quot;</td>
</tr>
<tr>
<td>2-1/2&quot; x 145/8&quot; Roofing Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>9/16&quot;</td>
<td>2.7/16&quot;</td>
</tr>
<tr>
<td>#10 SMS</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>3/4&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Aluminum, 6063-T5</td>
<td>3/8&quot;</td>
<td>0.050&quot;</td>
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<tr>
<td></td>
<td>Steel, A36</td>
<td>3/8&quot;</td>
<td>0.050&quot;</td>
</tr>
</tbody>
</table>

**TYP. GLAZING DETAIL**

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**GLAZING TYPES**

- 5/16" A/A PVB
- 7/16" Air Space
- 1/8" Annealed or Tempered Glass
- Duraseal, Superspacer or Cardinal XL Edge

---

**VINYL CASEMENT WINDOW TDI (IMP.-RES.)**

- GLASS/ANCHOR OPTIONS: J ROSOWSKI

---

**ANTHONY P. MILLER, PE**

- LICENSED PROFESSIONAL ENGINEER
- 106934

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---

**STATE OF FLORIDA**

- DEPARTMENT OF CONSTRUCTION INDUSTRIES
- LICENSED PROFESSIONAL ENGINEER
- P.E. 106934

---

**VINYL CASEMENT WINDOW TDI (IMP.-RES.)**

- 3/19/15

---

**GLASS/ANCHOR OPTIONS**

- J ROSOWSKI

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**PGT**

- 106934

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**VINYL CASEMENT WINDOW TDI (IMP.-RES.)**

- GLASS/ANCHOR OPTIONS: J ROSOWSKI

---

**ANTHONY P. MILLER, PE**

- LICENSED PROFESSIONAL ENGINEER
- 106934
HORIZONTAL SECTION A-A
SHOWN WITH HEAVY-DUTY SASH, HARDWARE & REINFORCEMENT

JAMB ANCHORS MAY BE INSTALLED IN EITHER LOCATION

EQUIVAL-LEG/BOX FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

FLANGE FRAME SHOWN

SHOWN INSTALLED DIRECTLY TO SUBSTRATE

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

FLANGE FRAME SHOWN

SHOWN INSTALLED THROUGH 3X BUCKSTRIP

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

BUCK WIDTH

EXTerior

14" MAX. SHIM

INSTALLATION THROUGH THE FRAME, INTO METAL

FLANGE FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

FLANGE FRAME SHOWN

SHOWN INSTALLED DIRECTLY TO SUBSTRATE

SUBSTRATE

EMBEDMENT

FLANGE FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

BUCK HEIGHT

EXTerior

14" MAX. SHIM

INSTALLATION THROUGH THE FRAME, INTO METAL

FLANGE FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

FLANGE FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

FLANGE FRAME SHOWN

SUBSTRATE

EMBEDMENT

EDGE DISTANCE

VERTICAL SECTION B-B
SHOWN WITH HEAVY-DUTY SASH, HARDWARE & REINFORCEMENT

INSTALLATION NOTES:
1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
3) MAX. SHIM THICKNESS TO BE 1/4".
4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
5) PIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.