NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

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.


APPROVAL DOCUMENT: Drawing No. 7700NOA-1, titled "Aluminum Single Hung Install (LM)", sheets 1 through 11 of 11, dated 04/01/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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 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 consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

NOA No. 18-0430.06
Expiration Date: August 23, 2023
Approval Date: August 23, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS
   1. Manufacturer's die drawings and sections.
   2. Drawing No. 7700NOA-1, titled "Aluminum Single Hung Install (LM), sheets 1 through 11 of 11, dated 04/01/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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, and TAS 202-94
      along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-18-7835.1, dated 04/03/18, signed and sealed by Idalmis Ortega, P.E.
   2. 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, and TAS 202-94
      window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-18-7835.2, dated 05/04/18, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS
   2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE
   1. Miami-Dade Department of Regulatory and Economic Resources (RER).
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their “Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers” dated 01/18/18, expiring on 07/08/19.
2. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their “SentryGlas® (Clear and White) Glass Interlayers” dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS
2. Statement letter of no financial interest, dated April 24, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. 18-0005R issued by the Product Control Section, dated 01/16/18, signed by Manuel Perez, P.E.

G. OTHERS
1. None.
### TABLE 3

<table>
<thead>
<tr>
<th>Sash Height Range (in)</th>
<th>Design Pressure (lbs/sf) for Glass Type 3</th>
<th>Tip to Tip Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 3/4 - 14 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>16 3/4 - 18 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>20 3/4 - 22 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>24 3/4 - 26 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>28 3/4 - 30 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>32 3/4 - 34 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
<tr>
<td>36 3/4 - 38 3/4</td>
<td>-85.0 - 80.0 - 75.0 - 70.0 - 65.0 - 60.0 - 55.0 - 50.0 - 45.0 - 40.0 - 35.0 - 30.0 - 25.0 - 20.0</td>
<td>55.0</td>
</tr>
</tbody>
</table>

- **18" TP GLASS**
- **1/8" AN GLASS**
- **35A OR 35B**
- **1/2" NOM GLASS BITE**
- **AIRSPACE**
- **750 PVB**
- **O26**

*Minimum Sash Height for Flanged Windows: Tip to Tip Height - 43.391*

*Minimum Sash Height for Integral Fin and Equal Leg Windows: Buck Height - 43.391*

*Minimum Sash Height for Flanged, Radius Top Windows: Tip to Tip Height - 49.906*

*Minimum Sash Height for Integral Fin and Equal Leg, Radius Top Windows: Buck Height - 48.506*

1. Tip to Tip Dimensions shown for integral fin and equal leg windows, subtract 1" from the tip to tip dimension in the table to determine the window size.
2. For sizes not shown, round up to the next available size.
3. For radius top windows, find the smallest window size in the table above which the radius top window will completely fit within.
4. Windows with the low sill option are limited to a maximum positive design pressure of -65 PSF. Negative design pressures are unaffected.

**Annealed (A)**

**Tempereated (T)**

**Heat Strengthened (HS)**

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**ALUMINUM SINGLE HUNG INSTALL (LM)**

**CERT. OF AUTH. #025056**

**FLORIDA LIC# 58705**

**1107 TECHNOLOGY DRIVE, N. VENICE, FL 34275 (941) 463-4680**

**CERT# 111187-01**

**JENS ROSEWSKI**

**OP-7000A**

**DOT NO. 11**

**71000HC-41**

---

**ATHANLYN MILLER**

**PROFESSIONAL ENGINEER**

**No. 58705**

**1070 TECHNOLOGY DRIVE, N. VENICE, FL 34275 (941) 463-4680**

**CERT. OF AUTH. #025056**

**FLORIDA LIC# 58705**

**OP-7000A**

**CERT# 111187-01**

**JENS ROSEWSKI**
### Table 4
**Design Pressure (Raft) for Glass Types 4/7**

<table>
<thead>
<tr>
<th>Bottom Sash Description</th>
<th>Sash Height Range</th>
<th>Tip to Tip With Glass</th>
<th>5/32&quot; W</th>
<th>1/8&quot; HS Glass</th>
<th>1/8&quot; HS Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equal-Hie</td>
<td>15.994 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>12.994 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shortest</td>
<td>12.494 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>18.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>15.994 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>22.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>18.092 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>24.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>22.092 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table 5
**Design Pressure for Glass Types 8-15**

<table>
<thead>
<tr>
<th>Bottom Sash Description</th>
<th>Sash Height Range</th>
<th>Tip to Tip With Glass</th>
<th>5/32&quot; W</th>
<th>1/8&quot; HS Glass</th>
<th>1/8&quot; HS Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equal-Hie</td>
<td>15.994 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>12.994 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shortest</td>
<td>12.494 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>19.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>15.994 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>22.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>18.092 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal-Hie</td>
<td>24.092 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Pressure</td>
<td>22.092 ± 0.005</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>15.141 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Size</td>
<td>14.131 ± 0.000</td>
<td>-0.000</td>
<td>-0.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Minimum Sash Height for Flanged Windows**: Tip to Tip Height: 49.391
2. **Minimum Sash Height for Integral Fin and Equal Leg Windows**: Tip to Tip Height: 49.391
3. **Minimum Sash Height for Flanged, Radius Top Windows**: Tip to Tip Height: 49.806
4. **Minimum Sash Height for Integral Fin and Equal Leg, Radius Top Windows**: Tip to Tip Height: 49.806

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**AN: Annealed**
**TP: Tempered**
**HS: Heat Strengthened**
<table>
<thead>
<tr>
<th>Anchor Quantities Required for &quot;Through-Frame&quot; Installation</th>
<th>Tip to Tip Width</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass Type</strong></td>
<td><strong>Description (Listed from Exterior to Interior)</strong></td>
</tr>
<tr>
<td>8.315&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
<td>3/16&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
<tr>
<td>9.315&quot; HS, 090&quot; SQ, 3/16&quot; HS</td>
<td>3/16&quot; HS, 090&quot; SQ, 3/16&quot; HS</td>
</tr>
<tr>
<td>10.13/16&quot; LG, 1/8&quot; AN CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 1/8&quot; HS</td>
<td>13/16&quot; LG, 1/8&quot; AN CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 1/8&quot; HS</td>
</tr>
<tr>
<td>11.13/16&quot; LG, 1/8&quot; TP CAP, AIRSPACE, 1/8&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
<td>13/16&quot; LG, 1/8&quot; TP CAP, AIRSPACE, 1/8&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
<tr>
<td>12.13/16&quot; LG, 1/8&quot; TP CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
<td>13/16&quot; LG, 1/8&quot; TP CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
<tr>
<td>13.13/16&quot; LG, 3/16&quot; AN CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
<td>13/16&quot; LG, 3/16&quot; AN CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
<tr>
<td>14.22.964 - 3/16&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
<td>22.964 - 3/16&quot; AN, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
<tr>
<td>15.13/16&quot; LG, 3/16&quot; TP CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
<td>13/16&quot; LG, 3/16&quot; TP CAP, AIRSPACE, 1/8&quot; HS, 090&quot; SQ, 3/16&quot; AN</td>
</tr>
</tbody>
</table>

*Minimum Sash Height for Flanged Windows is 3/16". Minimum Sash Height for Integral Fin and Equal Leg Windows is .250", Buck Height: 40.805*

1) Tip to Tip Dimensions Shown: For integral Fin and Equal Leg Windows, Subtract 1/32" from the Tip to Tip Dimension in the Table to Determine the Window Size.

2) For Sizes Not Shown, Round Up to the Next Available Size.

3) For Radius Top Windows, Find the Smallest Window Size in the Table Above Which the Radius Top Window Will Completely Fit Within.

4) Windows with the Low Sill Option are Limited to a Maximum Positive Design Pressure of +85 PSF. Negative Design Pressures are unaffected.
INSTALLATION DETAILS FOR EQUAL-LEG FRAMES

INSTALLATION OPTION 1
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP
SEE NOTE 2, THIS SHEET.

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.

INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.

HORIZONTAL SECTION A-A

VISIBLE LIGHT FORMULAS:
(Shown for Hi-rise Sill: See Sheet 9 for Standard Sill)

WIDTH
@ SASH & FIXED LITE, BUCK WIDTH = 4.12".

HEIGHT (ELEVATION LITE): BUCK HEIGHT = 2.23".

HEIGHT (PROVERSE):
@ FIXED LITE, BUCK HEIGHT = 4.28".
@ BUCK HEIGHT = 11.43".

HEIGHT (CUSTOM SASH):
@ FIXED LITE, BUCK HEIGHT = SASH HEIGHT = 2.55".
@ SASH HEIGHT = 6.55".

INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

VERTICAL SECTION B-B

TABLE 8

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>Min. Edge Distance</th>
<th>Min. Embedment</th>
</tr>
</thead>
<tbody>
<tr>
<td>#12 Steel, 18-8 or 410 SS Screw</td>
<td>P.T. Southern Pine (SGH=0.55)</td>
<td>9/16&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td></td>
<td>Aluminum, 6063-T5 min.</td>
<td>3/8&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td></td>
<td>A36 Steel</td>
<td>3/8&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td></td>
<td>Steel Stud, Gr. 33 min.</td>
<td>3/8&quot;</td>
<td>0.045&quot; (18 Ga)</td>
</tr>
<tr>
<td>1/4&quot; 410 SS</td>
<td>Concrete (min. 3.35 ksi)</td>
<td>2-1/2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td>CreteFlex</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; Steel</td>
<td>Ungrouted CMU (ASTM C-90)</td>
<td>2-1/2&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td>Ultrapac</td>
<td>P.T. Southern Pine (SGH=0.55)</td>
<td>1&quot;</td>
<td>1-3/8&quot;</td>
</tr>
</tbody>
</table>

NOTES:
1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 8. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

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 OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
B) USE ONLY FLATHEAD ANCHORS IN JANES. PANNELED FLATHEAD TYPE IS ALLOWABLE FOR ANCHORS IN THE HEAD.
C) "UNGRouted CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
VERTICAL SECTION D-D

HORIZONTAL SECTION C-C

TABLE 9

<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 .113&quot; Box Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>5/16&quot;</td>
<td>2.438</td>
</tr>
<tr>
<td>2-1/2&quot; x .131&quot; Common Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>3/8&quot;</td>
<td>2.438</td>
</tr>
<tr>
<td>2-1/2&quot; x .145&quot; Roofing Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>3/8&quot;</td>
<td>2.438</td>
</tr>
<tr>
<td>2-1/2&quot; x .145&quot; Roofing Nail</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>3/8&quot;</td>
<td>2.438</td>
</tr>
<tr>
<td>#10 Steel Trusshead Screw or #12 Steel, 18-8 or 410 SS Screw</td>
<td>P.T. Southern Pine (SG=0.55)</td>
<td>1/2&quot;</td>
<td>1.375</td>
</tr>
<tr>
<td>0.125&quot; Aluminum, 6063-T5 min.</td>
<td>5/16&quot;</td>
<td>0.125</td>
<td></td>
</tr>
<tr>
<td>0.050&quot; A36 Steel</td>
<td>5/16&quot;</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>0.045&quot; (18 Ga) Steel Stud, Gr. 33 min</td>
<td>5/16&quot;</td>
<td>0.045</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLE 9. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
2) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

A) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
**TABLE 11: Item PGT Part # Description Material**

1. 624001 Head, Flange Alum. 6063-T6
2. 624017 Head, Integral Fin Alum. 6063-T6
3. 624028 Head, Equal-leg Alum. 6063-T6
4. 624044 Jamb, Flange Alum. 6063-T6
4A. Jamb, Flange (Use For Alternate Radius Top Head) Alum. 6063-152
5. 624020 Jamb, Integral Fin Alum. 6063-T6
5A. Jamb, Integral Fin (Use For Alternate Radius Top Head) Alum. 6063-152
6. 624031 Jamb, Equal-leg Alum. 6063-152
6A. Jamb, Equal-leg (Use For Alternate Radius Top Head) Alum. 6063-152
7. 624002 Sill, Flange Alum. 6063-T6
8. 624018 Sill, Integral Fin Alum. 6063-T6
9. 624029 Sill, Equal-leg Alum. 6063-T6
10. 624023 Sill, Ht-Rise, Flange Alum. 6063-T6
11. 624019 Sill, Ht-Rise, Integral Fin Alum. 6063-T6
12. 624030 Sill, Ht-Rise, Equal-leg Alum. 6063-T6
13. 624006 Sash Top Rail Alum. 6060A-161
14. 624005 Fixed Meeting Rail Alum. 6060A-161
15. 624012 Sash Bottom Rail - Ht-Rise Alum. 6063-T6
16. 624068 Sash Bottom Rail Alum. 6063-T6
17. 624007 Sash Side Rail Alum. 6063-T6
18. 624051 Head Anchor Cover Alum. 6063-T6
19. 624015 Sash Stop Alum. 6063-T6
25A. 624009 IG Bead Alum. 6063-T5
25B. 624011 IG Snap Bead Alum. 6063-T5
28. 624013 5/16" Lam Beading Alum. 6063-T6
27. 624001 1/16" Lam Beading Alum. 6063-T6
30. 61TP247 Glazing Bead, Bulb Vinyl for #624023 Vinyl
31. 61TP248 Glazing Bead, Bulb Vinyl for #624009 & #624011 Vinyl
32. 724046 Sweep Latch (Top Rail) Cast Zinc
33. 724047 Bottom Latch (IG) Alum. 6063-T6
34. Setting Block (1/8" X 1/2" X 4") Neoprene
35A. IG Setting Block (1/8" X 3/4" X 4") Neoprene
35B. IG Snap Setting Block Polyethylene
36. 724044 Bottom Rail Weatherstrip Extension Polyethylene
37. 724053 Sill Gasket Polyethylene
38. 724054 Sash Top Rail Gasket Polyethylene
39. 724055 Sash Bottom Rail Gasket Polyethylene
40. 724057 Head Gasket Polyethylene
41. 724053 Meeting Rail Gasket Polyethylene
42. 61220D Sash Bottom Rail Bulb Vinyl Polyethylene
43. Weatherstrip, 217° X 177°, Fin Seal (@ MR) Polyethylene
44. 67S103 Weatherstrip, 177° X 217°, Fin Seal (@ Sash Side Rail) Polyethylene
45. Weatherstrip, 177° X 177°, Fin Seal (@ Top Sash Rail) Polyethylene
46. Various Balance with Cover & Trim Rigid Vinyl
51. 781PSX6 #6 X 1 Ph Smiley (Assembly) Stainless Steel
55. 78346A #6 X 3/4 Ph, PN SMS (Balance) Stainless Steel
63. - Alum. Screen with Fiberglass Mesh Various
70. - Kommerling Kodeapace 45G TPS Various
71. - Quanex Super Spacer nXf See Sheet
72. - Quanex Duraseal Spacer 10 lb
73. - Cardinal XL Edge Spacer Materials
74. - Dow 791, 599 or GE 7700 Backbedding Silicone

**TABLE 10: MATERIAL PROPERTIES USED FOR ANCHORAGE CALCULATIONS:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Min. Fy</th>
<th>Min. Fp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Screw</td>
<td>92 ksi</td>
<td>120 ksi</td>
</tr>
<tr>
<td>18-8 Screw</td>
<td>90 ksi</td>
<td>95 ksi</td>
</tr>
<tr>
<td>410 Screw</td>
<td>90 ksi</td>
<td>110 ksi</td>
</tr>
<tr>
<td>Elico UltraCore</td>
<td>155 ksi</td>
<td>177 ksi</td>
</tr>
<tr>
<td>410 SS Elico CoreFlex</td>
<td>127.4 ksi</td>
<td>189.7 ksi</td>
</tr>
<tr>
<td>6063-T5 Aluminum</td>
<td>16 ksi</td>
<td>22 ksi</td>
</tr>
<tr>
<td>435 Steel</td>
<td>36 ksi</td>
<td>58 ksi</td>
</tr>
<tr>
<td>Gr. 33 Stainless Stud</td>
<td>33 ksi</td>
<td>45 ksi</td>
</tr>
</tbody>
</table>

**NOTES:**
1. ALL CORNERS TO USE GASKET AND/or SEALANT.
2. SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.