Simonton Impact Resistant Double Hung Series 42-19 Vinyl Window

Lucas A. Turner
2015-06-30 19:11-04:00

The head, sill, and side jambs are extruded PVC. The wall thickness through which the anchor screw penetrates is a minimum of 0.070".

**General Description:**

**Model Designation:**

Simonton Impact Resistant Double Hung Series 42-19 Vinyl Window

**Maximum Overall Nominal Size:**

See Size Chart

**Design Pressure Rating:**

See Size Chart

**Usable Configurations:**

X

**Table 1: Fin Installation Fasteners Table**

<table>
<thead>
<tr>
<th>ID</th>
<th>Substrate Type</th>
<th>Anchor Type</th>
<th>Min. Embed.</th>
<th>Min. Edge Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2X Min. Southern Pine Wood (G=0.55)</td>
<td>#6 Wood Screw</td>
<td>1&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

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**Material:**

Alloy & Temper: Diagram 1

Gloss & Finish: Diagram 1

**Dimensional Tolerances**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>±0.03</td>
</tr>
<tr>
<td>Height</td>
<td>±0.03</td>
</tr>
<tr>
<td>Thickness</td>
<td>±0.03</td>
</tr>
<tr>
<td>Surface Area</td>
<td>±0.03</td>
</tr>
<tr>
<td>Perimeter</td>
<td>±0.03</td>
</tr>
</tbody>
</table>

**Revision History:**

- Added .98 x 72 to Size Chart per new testing.
- 0.500" Glass Bite
- Update for multiple Substrate types
- Revised by: T.D.D.

**File Information:**

FILE: IN0540

**Drawing No.:**

B IN0540 2

**Drawn By:**

T.D.D.

**Date:**

04/19/12

**Checked By:**

APPRV'D BY:

DATE:
The head, sill, and side jambs are extruded PVC. The wall thickness through which the anchor screw penetrates is a minimum of 0.070".

**Table 2: 1 X Installation Fasteners Table**

<table>
<thead>
<tr>
<th>ID</th>
<th>Substrate Type</th>
<th>Anchor Type</th>
<th>MIN. EMBED</th>
<th>MIN. EDGE DIST.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>CONCRETE (2.85 KSI MIN)</td>
<td>3/16&quot; ELCO ULTRACON</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>B</td>
<td>HOLLOW OR GROUT-FILLED CMU (ASTM C90)</td>
<td>3/16&quot; ELCO ULTRACON</td>
<td>1-1/4&quot;</td>
<td>2 1/2&quot;</td>
</tr>
</tbody>
</table>

**Notes:**
1. This installation has been evaluated for use in locations adhering to the Texas & Florida Building Codes and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings herein, for use outside the H.V.H.Z.
2. All interior perimeter surfaces and exterior fins of the window must be caulked.
3. Anchor type, size, spacing, and embedment shall be as specified in these drawings.
4. Anchor embedment to substrate shall be beyond wall dressing or stucco. Fin installations to concrete/masonry openings require the use of 2x wood bucks between product and substrate, with product installation to 2x buck as indicated on sheet 1. For flange installations to concrete/CMU openings, embedment shall be beyond wood bucks, if used, and into substrate, see sheet 2. Flange installations to solid concrete or grout-filled CMU may include but do not require 1x wood bucks between product and substrate. Flange installations to hollow CMU require the use of 1x bucks between product and substrate.
5. Wood or masonry openings, bucks, and buck fasteners, by others, shall be property designed and installed to transfer wind loads to the structure. Substrates shall meet the minimum strength requirements as shown in Table 1, this sheet, and Table 2, sheet 2.
6. The responsibility for selection of Simonton products to meet any applicable local laws, building codes, ordinances, or other safety requirements rests solely with the architect, building owner, or contractor.
7. Shims are required where gaps of greater than 1/16" exist between opening and frame. Max. shim stack is 1/4.
8. Shims shall be load-bearing and capable of transferring loads to the substrate.
9. When used in areas requiring impact protection conforming to missile level C, wind zone 2, this product DOES NOT REQUIRE the use of approved impact resistant shutters or other external protection.
10. Glazing shall comply with ASTM E 1300-04 and safety glazing requirements per FBC Section 2406.
11. For installation to metal substrates, anchors shall be long enough to be fully threaded through the metal thickness with an additional 3/16" min. of threads beyond.
12. A minimum center-to-center spacing of 1-1/4" shall be maintained between all Elco Ultracons in any direction.
13. Anchor fasteners penetrating into pressure treated wood shall be capable of preventing corrosion due to reaction with pressure treatment chemicals. Any dissimilar materials that come into contact shall be protected to prevent reactions in accordance with code requirements.
14. A wind load duration factor C = 1.6 was used for the analysis of wood screws only.