MODEL 8150 SYSTEM 3
PICTURE WINDOW - LARGE MISSILE IMPACT

GENERAL NOTES:
2. GLAZING OPTIONS: (SEE SHEET 3)
3. CONFIGURATIONS: "O". ARCHITECTURAL SHAPES INCLUDE, BUT ARE NOT LIMITED TO, THOSE SHOWN ON SHEET 2.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
6. ALL FRAMES ARE FULLY WELDED.
7. SERIES / MODEL DESIGNATION PW-8150.
8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
   O = FIXED SASH.
9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

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Lucas A. Turner
2016-09-29
19:24-04:00
8150 PVC PICTURE WINDOW IMPACT

NOTES:
1. SEE SHEET 5 FOR DETAILED ANCHOR INSTALLATION REQUIREMENTS.
2. THRU FRAME - MASONRY, WOOD OR METAL OPENING.
   THRU FIN - WOOD OPENING.
3. OVERALL SIZE MUST NOT EXCEED THE MAX. WIDTH AND HEIGHT OF RECTANGULAR WINDOW ON SHEET 1.
4. ANCHOR SPACING FOR ARCHITECTURAL FLANGE AND FIN WINDOWS MUST FOLLOW THE LAYOUTS SHOWN ON SHEET 5, WITH ANCHOR SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.

ARCHITECTURAL SHAPES

- FULL CIRCLE
- FULL ELLIPSE (OVAL)
- 1/2 CIRCLE
- OCTAGON
- 1/4 CIRCLE
- TOMBSTONE
- TRAPEZOID
PARTS LIST

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>VENDOR</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>1</td>
<td>H-6025</td>
<td>SASH STOP</td>
<td>MIKRON</td>
<td>PVC</td>
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<tr>
<td>2</td>
<td>H-6048</td>
<td>SINGLE HUNG FIN FRAME</td>
<td>MIKRON</td>
<td>PVC</td>
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<tr>
<td>3</td>
<td>H-6049</td>
<td>SINGLE HUNG FLANGE FRAME HEAD</td>
<td>MIKRON</td>
<td>PVC</td>
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<tr>
<td>4</td>
<td>H-6049</td>
<td>SINGLE HUNG FLANGE FRAME SILL</td>
<td>MIKRON</td>
<td>PVC</td>
</tr>
<tr>
<td>5</td>
<td>H-6049</td>
<td>SINGLE HUNG FLANGE FRAME LEFT JAMB</td>
<td>MIKRON</td>
<td>PVC</td>
</tr>
<tr>
<td>6</td>
<td>H-6049</td>
<td>SINGLE HUNG FLANGE FRAME RIGHT JAMB</td>
<td>MIKRON</td>
<td>PVC</td>
</tr>
<tr>
<td>7</td>
<td>P-3113</td>
<td>SCREW SUPPORT FOR PVC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>P-3352</td>
<td>SETTING BLOCK 65 DURAMETER 1/8&quot; x 5/8&quot; x 2&quot; LG.</td>
<td>AMESBURY</td>
<td>FOAM</td>
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<tr>
<td>9</td>
<td>P-4648</td>
<td>SIKAFLEX 552 OR HENKEL PURFECT GLAZE &quot;H&quot;</td>
<td>SIKA / HENKEL</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>S-6064</td>
<td>GLAZING BEAD (7/8&quot; O.A. T.G.)</td>
<td>FRANK LOWE</td>
<td>RUBBER</td>
</tr>
<tr>
<td>11</td>
<td>GLASS</td>
<td>SEE SHEET 3</td>
<td>CARDINAL</td>
<td>GLASS</td>
</tr>
</tbody>
</table>

LINE ITEMS NOT USED:

9

1/16"

2 3/4"

3 1/8"

3 9/16"

3/16"

7/8"

1 5/16"

1/16"

3/16"

3"

PVC FRAME, FLANGE - H-6049
PVC FRAME, FIN - H-6048
PVC GLAZING BEAD - S-6064
PVC FILLER, SASH STOP - S-6025

SCREW SUPPORT - P-3113
NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. ANCHOR SPACING APPLIES TO ALL SHAPES (SEE SHEET 2) ALONG ALL FRAME EDGES. SILL ANCHOR SPACING SAME AS HEAD.

2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.

3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.

4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.

5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.

6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.

7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.

8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.

9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(INTERIOR DOORS)
**8150 PVC PICTURE WINDOW IMPACT**

**TYPICAL HEAD ANCHORAGE**

**MIN. EMBEDMENT**
SEE TABLE 1

**1/4" MAX. SHIM**

**MIN. EDGE DIST.**
SEE TABLE 1

**INSTALLATION ANCHOR**
SEE TABLE 1

**1/4" MAX. SHIM**

**SUBSTRATE BY OTHERS**
SEE TABLE 1

**PERIMETER SEALANT INSIDE AND OUTSIDE BY INSTALLER**

**SEALANT BEHIND FLANGE BY INSTALLER**

**Table 1: Approved Installation Fasteners**

<table>
<thead>
<tr>
<th>FRAME TYPE</th>
<th>SUBSTRATE TYPE</th>
<th>ANCHOR TYPE</th>
<th>MIN. EMBEDMENT</th>
<th>MIN. EDGE DIST.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLANGE</td>
<td>CONCRETE (2.0 KSI MIN.)</td>
<td>3/16&quot; ITW TAPCON</td>
<td>1-1/2&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)</td>
<td>3/16&quot; ITW TAPCON</td>
<td>1&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>CONCRETE (2.0 KSI MIN.)</td>
<td>3/16&quot; ELCO ULTRACON</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>GROUT-FILLED CMU (ASTM C-90)</td>
<td>3/16&quot; ELCO ULTRACON</td>
<td>1-1/4&quot;</td>
<td>2-1/2&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>2X MIN. SOUTHERN PINE (G=0.55)</td>
<td>3/16&quot; ITW TAPCON</td>
<td>1-3/8&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>2X MIN. SOUTHERN PINE (G=0.55)</td>
<td>#10 WOOD SCREW</td>
<td>1-3/8&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>16 GAUGE (0.060&quot;) MIN. STEEL STUD  (33 KSI YIELD MIN)</td>
<td>#10-16 HILTI KWIK-FLX OR ITW TEKS SELF-DRILLING SCREW</td>
<td>FULL THREAD Thru 0.060&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>FLANGE</td>
<td>1/8&quot; ALUM. (6063-T5 MIN.) OR 1/8&quot; STEEL (33 KSI MIN.)</td>
<td>#10 GRADE 5 SELF-TAPPING / DRILLING SCREW</td>
<td>FULL THREAD Thru 0.125&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>FIN</td>
<td>2X MIN. SOUTHERN PINE (G=0.55)</td>
<td>#8 WOOD SCREW</td>
<td>1-1/2&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

**FLANGE REMOVAL NOTE:**
- PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:
  - MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUTSIDE, FULL PERIMETER, BY INSTALLER.
  - PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

**Typical Installation Details**

- Vertical Section
- Typical Sill Anchorage
- Typical Jamb Anchorage
- Horizontal Section
- Typical Fin Anchorage

**Refer to Table 1 for specific installation fasteners.**

**9/29/2016**

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