MODEL 6150 SYSTEMS 1, 2, 3, AND 4
PICTURE WINDOW - LARGE MISSILE IMPACT


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 7 FOR ANCHOR DETAIL. 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 FULLY WELDED.

7. SERIES / MODEL DESIGNATION PW-6150.

8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: O = FIXED SASH

9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

GENERAL NOTES:

TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS.....1
ARCHITECTURAL SHAPES.................2
GLAZING DETAILS......................3
SECTION VIEWS & ALT. FRAME..........4
BOM & EXTRUSIONS.....................5
ANCHOR SCHEDULE & NOTES............6
INSTALLATION DETAILS................7

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

DRAWN BY:  DATE:

DWG #:  REV.:

SCALE:

1:25
NOTES:
1. SEE SHEET 6 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 WINDOWS ON SHEET 1.
4. ANCHOR SPACING FOR ARCHITECTURAL FLANGE AND FIN WINDOWS
   MUST FOLLOW THE LAYOUTS SHOWN ON SHEET 6, WITH ANCHOR
   SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.
6150 PVC PICTURE WINDOW IMPACT

GLAZING DETAILS

MAX. UNIT SIZE

SYSTEM

68" x 76" 1
48" x 76" 2
96" x 54" 3
36" x 76" 4

SYSTEM 1

7/8" OVERALL
3/16" ANNEALED
3/8" AIRSPACE
5/16" LAMINATED
1/8" ANNEALED
0.90 SENTRY GLASS IONOPLAST INTERLAYER
1/8" ANNEALED

SIKAFLEX 552 OR PURFECT GLAZE "H"

5/8" GLASS BITE

SYSTEM 2

7/8" OVERALL
3/16" ANNEALED
3/8" AIRSPACE
5/16" LAMINATED
1/8" ANNEALED
105 DUPONT PVB INTERLAYER
1/8" ANNEALED

SIKAFLEX 552 OR PURFECT GLAZE "H"

5/8" GLASS BITE

SYSTEM 3

7/8" OVERALL
3/16" ANNEALED
1/4" AIRSPACE
7/16" LAMINATED
3/16" ANNEALED
0.90 SENTRY GLASS IONOPLAST INTERLAYER
3/16" ANNEALED

SIKAFLEX 552 OR PURFECT GLAZE "H"

5/8" GLASS BITE

SYSTEM 4

7/8" OVERALL
3/16" ANNEALED
3/8" AIRSPACE
5/16" LAMINATED
1/8" ANNEALED
0.105 DUPONT PVB INTERLAYER
1/8" ANNEALED

SIKAFLEX 552 OR PURFECT GLAZE "H"

5/8" GLASS BITE
SECTION VIEW A-A

SECTION VIEW B-B

ALTERNATE FIN FRAME

INTERIOR

INTERIOR

SECTION VIEWS

INTERIOR

SECTION VIEWS

INTERIOR
<table>
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<tr>
<th>ITEM</th>
<th>PART #</th>
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<th>VENDOR</th>
<th>MATERIAL</th>
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<tr>
<td>1</td>
<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, HEAD</td>
<td>ATN</td>
<td>PVC</td>
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<tr>
<td>2</td>
<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, SILL</td>
<td>ATN</td>
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<td>3</td>
<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, L. JAMB</td>
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<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, R. JAMB</td>
<td>ATN</td>
<td>PVC</td>
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<tr>
<td>5</td>
<td>GLASS</td>
<td>SEE SHEET 3</td>
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<tr>
<td>7</td>
<td>S-6141</td>
<td>GLAZING BEAD</td>
<td>ATN</td>
<td>PVC</td>
</tr>
<tr>
<td>8</td>
<td>S-6144</td>
<td>FRAME FILLER</td>
<td>ATN</td>
<td>PVC</td>
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<td>9</td>
<td>PURFECT GLAZE &quot;H&quot;, SIKAFOLEX 552</td>
<td>HENKEL / SIKA</td>
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<td>P-3352</td>
<td>SET. BLK., .85 DUR., 1/8&quot; x 5/8&quot; x 2&quot; Lg.</td>
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<td>11</td>
<td>H-6128FIN</td>
<td>MAIN FRAME, FIN, PVC</td>
<td>ATN</td>
<td>PVC</td>
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**PVC FRAME FLANGE**

- H-6128FLG

**PVC GLAZING BEAD**

- S-6141

**PVC TRIM**

- S-6144

**FRAME CORNER CONSTRUCTION**

- CORNER WELD (ALL SIDES) 1/8

**BOM AND EXTRUSIONS**

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<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, L. JAMB</td>
<td>ATN</td>
<td>PVC</td>
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<td>4</td>
<td>H-6128FLG</td>
<td>MAIN FRAME, FLANGE, R. JAMB</td>
<td>ATN</td>
<td>PVC</td>
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<td>SEE SHEET 3</td>
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<tr>
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<td>H-6128FIN</td>
<td>MAIN FRAME, FIN, PVC</td>
<td>ATN</td>
<td>PVC</td>
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</table>
6150 PVC
PICTURE WINDOW
IMPACT

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 7.

4. 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 7.

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 INTO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.

7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3-9/16" 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 7. 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 (EXTERIOR DOORS)
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>
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<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 (2.85 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>1-3/4&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 OR ELCO ULTRACON</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-Flex 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>
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</table>

PERIMETER SEALANT BY INSTALLER INSIDE AND OUT

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-FRAME ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.