

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-798

Effective June 1, 2010

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building code (IBC)**. This product shall be subject to reevaluation **June 2010**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

### **Series 2953 Vinyl Triple Fixed Windows, New Construction or Replacement Windows, Non-impact Resistant**, manufactured by

**Silver Line Building Products**  
**Route One North**  
**P.O. Box 6029**  
**North Brunswick, NJ 08902-6029**  
**(732) 435-1000, Ext. 4288**

and distributed under the following trade names:

#### **Silver Line** **American Craftsman (Home Depot)**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The Series 2953 windows are vinyl fixed windows. The vinyl fixed windows evaluated in this report are triple (side by side), non-impact resistant, windows. This product evaluation report is for vinyl fixed windows based on the following tested constructions:

### **General Description:**

System	Description	Label Rating
1	Series 2953 Vinyl Triple (Side by Side) Fixed Windows	FW-R50 89 x 54
2	Series 2953 Vinyl Triple (Side by Side) Fixed Windows	FW-R40 107 x 74
3	Series 2953 Vinyl Triple (Side by Side) Fixed Windows	FW-R50 107 x 48

**Product Dimensions:**

System	Overall Size	Fixed Daylight Opening Size
1	89" x 54"	Three: 24 $\frac{3}{4}$ " x 48 $\frac{3}{4}$ "
2	107" x 74"	Three: 31" x 69"
3	107 $\frac{1}{8}$ " x 48 $\frac{1}{4}$ "	Three: 31 $\frac{1}{8}$ " x 43"

**Glazing Description:**

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1
2	IG-1	GM-1
3	IG-2	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Description Key" for the glazing method description.

**Glass Construction Key:**

IG-1: Sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites separated by an aluminum spacer system. The glass thickness and type in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: Sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites separated by an Intercept spacer system. The glass thickness and type in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Description Key:**

GM-1: The insulated glass units are set from the interior onto a bed of silicone sealant. The insulating glass units are secured to the frame with rigid vinyl snap-in glazing beads.

**Frame Construction:** The frame members are constructed of extruded vinyl (PVC). The frame corners are mitered and welded construction. The intermediate frame jambs are secured to the head and to the sill with screws through the frame and into the jambs.

**Reinforcement:**

**Systems 1 and 2:** Each intermediate side jab is reinforced with three (3) pieces of 16 gauge roll-formed steel. The reinforcement extends the length of the members.

**System 3:** None.

**Hardware:** None

**Product Identification:** A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name; the product name: **Series 2950 Vinyl Fixed Clear**; performance characteristics; the approved inspection agency (WDMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

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## LIMITATIONS

### Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	89	54	± 50
2	107	74	± 40
3	107 $\frac{1}{8}$	48 $\frac{1}{4}$	± 50

**Impact Resistance:** These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Smaller Assemblies:** Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

**Acceptance of Twin Assemblies:** Twin fixed window assemblies with dimensions of the fixed daylight opening sizes equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

**General:** The window assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

### Installation:

#### Systems 1 and 2:

**New Construction Installation to Wood:** The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing utilizing the nailing fin with minimum No. 8 x 1  $\frac{3}{4}$ " wood screws or minimum 11 gauge x 1  $\frac{3}{4}$ " galvanized roofing nails. The fasteners shall be located approximately 2 inches from each corner and approximately 10 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of 1  $\frac{1}{2}$  inches into the wall framing.

**Replacement Installation to Wood:** The wall framing or buck shall be minimum Spruce-Pine-Fir dimension lumber. Fasteners shall be a minimum No. 8 x 1  $\frac{3}{4}$ " wood screws. Along the head and sill, the fasteners shall be located approximately 3 inches and 6 inches on either side of the mullions. Along each side jamb, the fasteners shall be located approximately 2 inches from each end and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of 1  $\frac{1}{2}$  inches into the wall framing.

**Replacement Installation to Concrete or CMU:** The wall framing shall be minimum precast concrete, cast in place concrete or concrete masonry units (CMU). Hollow CMU are acceptable. Fasteners shall be minimum  $\frac{3}{16}$ " diameter Tapcon anchors. Along the head and sill, the fasteners shall be located approximately 3 inches and 6 inches on either side of the mullions. Along each side jamb, the fasteners shall be located approximately 2 inches from each end and approximately 12 inches on center. The fasteners shall penetrate a minimum of 1  $\frac{1}{4}$  inches into the wall framing. The anchors shall be at least 2  $\frac{5}{8}$  inches from a concrete edge. The perimeter of the window shall be sealed with silicone.

**System 3:**

**New Construction Installation to Wood:** The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing utilizing the nailing fin with minimum No. 8 x 1  $\frac{3}{4}$ " wood screws or minimum 11 gauge x 1  $\frac{3}{4}$ " galvanized roofing nails. The fasteners shall be located approximately 3 inches from each corner and approximately 8 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of 1  $\frac{1}{2}$  inches into the wall framing.

**Replacement Installation to Wood:** The wall framing or buck shall be minimum Spruce-Pine-Fir dimension lumber. Fasteners shall be a minimum No. 8 x 1  $\frac{3}{4}$ " wood screws. Along the head and sill, the fasteners shall be located approximately 3 inches from each corner, 3 inches on either side of the mullions, and one at the mid-span of each window. Along each side jamb, the fasteners shall be located approximately 3 inches from each end and approximately 18 inches on center. The fasteners shall be long enough to penetrate a minimum of 1  $\frac{1}{2}$  inches into the wall framing.

**Replacement Installation to Concrete or CMU:** The wall framing shall be minimum precast concrete, cast in place concrete or concrete masonry units (CMU). Hollow CMU are acceptable. Fasteners shall be minimum  $\frac{3}{16}$ " diameter Tapcon anchors. Along the head and sill, the fasteners shall be located approximately 3 inches from each corner, 3 inches on either side of the mullions, and one at the mid-span of each window. . Along each side jamb, the fasteners shall be located approximately 3 inches from each end and approximately 18 inches on center. The fasteners shall penetrate a minimum of 1  $\frac{1}{4}$  inches into the wall framing. The anchors shall be at least 2  $\frac{5}{8}$  inches from a concrete edge. The perimeter of the window shall be sealed with silicone.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.