

## Product Evaluation

WIN2737 | 0723

Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** WIN-2737

**Effective Date:** July 1, 2023

**Re-evaluation Date:** July 2027

**Product Name:** G110 Vinyl Single Hung Windows, Fin or Frame Installation, Impact Resistant

**Manufacturer:** NT Window  
2900 Seminary Drive  
Fort Worth, TX 76133  
(800) 969-8830

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	G110 Vinyl Single Hung Windows; O/X	LC-PG50 (54 x 77)-H Missile Level D	+50 / -60 psf
2	G110 Vinyl Single Hung Windows; O/X	LC-PG50 (48 x 84)-H Missile Level D	+50 / -50 psf

### Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Daylight Opening Size
1	54" x 77"	50-3/8" x 38"	49-1/2" x 35-3/16"
2	48" x 84"	44-3/8" x 41-3/8"	41-1/2" x 38-3/8"

**Product Identification (Certification Label on Window):**

System		
1 & 2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	NT
	Product Name	G110 SH (FIN & FINLESS)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 (system 1), -17 (system 2) AAMA 506; Missile Level D

**Compliance:** The products comply with AAMA/WDMA/CSA 101/I.S.2/A440-17, ASTM E 1886-13a, and ASTM E 1996-14a as referenced in the 2018 IRC and 2018 IBC.

**Impact Resistance:**

System	Impact Resistant	Requirement
1 & 2	Yes	These products have been tested for windborne debris resistance. They satisfy Missile Level D requirements specified in ASTM E 1996-14a.

**Installation:****System 1:****Option #1 (Nail Fin Installation):**

The wood wall framing members must be minimum Spruce-Pine-Fir Pine dimension lumber. The window assembly is secured to the wall framing using an integral nailing fin. The nailing fin is secured to the wall framing using minimum No. 6 wood screws spaced approximately 2" from each corner and 8" on center along the perimeter. In addition, install 1-1/2" x 5-1/2" long, 20-gauge galvanized steel straps along each side jamb (5 per jamb) and at the head and sill (3 at each location) with one strap located 6" from each corner. Secure each strap to the window frame using one (1) minimum No. 8 x 5/8" pan head screw and to the wall framing using one (1) minimum No. 6 wood screw. Locate one (1) No. 10 x 2" long pan head screw per jamb through the balance anchor. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Option #2 (Screw Through Frame):**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2" pan head screws. Along each side jamb, locate one (1) fastener through the balance anchor and one (1) fastener 3" from each end. Along the head, install two (2) screws, each at the quarter points. No fasteners are required along the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**System 2:****Option #1 (Nail Fin Installation):**

The wood wall framing members must be minimum Spruce-Pine-Fir Pine dimension lumber. The window assembly is secured to the wall framing using an integral nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 x 2-1/2" washer head screws spaced 3" from each corner and 9-1/2" on center along the perimeter. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Option #2 (Frame Installation):**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 8 x 2-1/2" washer head screws along each side jamb and head. Locate one fastener 3" from each corner and 19" on center for side jambs. Locate one fastener 3" from each corner and one fastener at mid-span for the head. No fasteners are required along the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.