Product Evaluation Report

Product Manufacturer	Product Name, Model and/or Description
Sierra Pacific Windows 575 South Whelen Ave. Medford, Wisconsin 54451	FeelSafe & FeelSafe IG Monument Rectangle, Archtop & Springline Single/Double Hung Operating 1-Wide Window 41.31" Wide x 76.63" High Maximum Size

Code: Current Edition of the Florida Building Code including the 7th Edition (2020) Florida Building Code

Compliance Method: 61G20-3.005(1)(a) – Certification Mark or Listing

Product Name, Model and/or Designation: Products covered by this evaluation include the following.

- FeelSafe & FeelSafe IG Monument Rectangle, Archtop & Springline Single/Double Hung Operating 1-Wide Window 41.31" Wide x 76.63" High Maximum Size, L-Clip Installation / Impact (shown on HURD0006)

- FeelSafe & FeelSafe IG Monument Rectangle, Archtop & Springline Single/Double Hung Operating 1-Wide Window 41.31" Wide x 76.63" High Maximum Size, Nail Fin Installation / Impact (shown on HURD0007)

- FeelSafe & FeelSafe IG Monument Rectangle, Archtop & Springline Single/Double Hung Operating 1-Wide Window 41.31" Wide x 76.63" High Maximum Size, Screw Thru Frame & L-Clip Installation / Impact (shown on HURD0008)

Product Testing, Materials and Certification:

- Element Materials Technology Test Report No. ESP015004P-1482 and associated laboratory drawings.
- Certification by WDMA
- Laminated Glazing Interlayers. MD NOA component approvals. Current 2020 FBC approvals shown. Later approvals may be applicable.
    - Saflex PVB Interlayer: NOA No. 20-0622.01
- Materials
    - Window Frame Material: Ponderosa pine used in testing. Other wood species applicable for use with this product are those with a specific gravity of 0.43 and modulus of elasticity of 1,200,000 psi or greater. All wood is minimum Grade 2 milled by Hurd Windows & Doors to select.
    - Aluminum cladding (6063-T5 or T6).

Product Installation Instructions:

- PTC Drawing No. HURD0006 prepared by PTC PDG, signed and sealed by the undersigned.
- PTC Drawing No. HURD0007 prepared by PTC PDG, signed and sealed by the undersigned.
- PTC Drawing No. HURD0008 prepared by PTC PDG, signed and sealed by the undersigned.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage has been verified by calculation (PTC Calc. No. 2293) prepared by the undersigned in accordance with the current edition of the Florida Building Code.
- Window Glazing verified using ASTM E1300-09a.

Performance Testing:

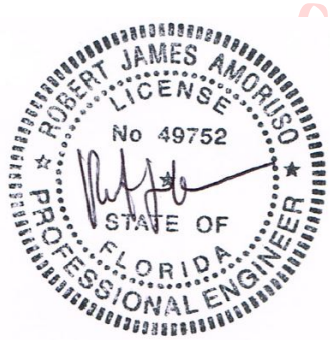
- TAS 201-94
- TAS 202-94
- TAS 203-94

Limitations & Conditions of Use:

- This product has been evaluated for use inside the HVHZ (High Velocity Hurricane Zone) and is Impact Resistance.
- Refer to Product Installation Instructions noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).
  - Overall dimensions and material/grade of main product components, accessories, etc.
  - Illustrated diagrams of the attachment of the product to the structure.
  - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report. PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed by Robert J Amoruso
Date: 2021.04.26 11:15:11 -04'00'

Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752