

W. W. Schaefer Engineering & Consulting, P.A. (CA #6809)

7480 150th Court North
Palm Beach Gardens, FL 33418
Phone (561)744-3424

ENGINEER'S EVALUATION REPORT #WWS-393

Prepared for:

Tischler Und Sohn (USA), Ltd.
6 Suburban Ave.
Stamford, CT 06901
Phone: 203-674-0600

Prepared by:

Warren W. Schaefer, P.E.
Florida Professional Engineer #44135

Manufacturer: Tischler Und Sohn (USA) Ltd.

Product Category: Windows

Evaluation Method: 1-D (Engineer's evaluation)

Product model & name: Single & Double Hung Concealed Balance System Impact Wood Window

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1827

Window size & configuration restrictions and assembly requirements:

See drawing No. 1827.

Maximum allowable design pressure:

+/-70 psf

Installation requirements:

See drawing No. 1827

Code compliance:

Code section(s) considered with this evaluation:
FBC Chapters 17 & 24

Wood Coatings:

All wood members shall be of an approved durable species or be treated in an approved method with an approved preservative per applicable codes and standards

Glass:

All glass meets the current ASTM E1300 standard.

Test Standards applicable to the testing of these windows:

TAS-201, 202 & 203

Test Laboratory: Architectural Testing, Inc. (Currently known as Intertek)

Test report numbers: C2621.01-109-18

Note: All HVHZ test reports have been signed & sealed by a Florida PE.

Compliance statement:

This product & its installations have been evaluated as required by the applicable Florida product approval rule and the Florida Building Code (FBC) and are found to be in compliance with each the rule, the Florida Building Code & all code required standards referenced here-in.

General report notes & system limitations:

1. All size, configuration & installation conditions shown in this report and the referenced drawing No. 1827 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Windows shall be constructed in accordance with the descriptions in this report, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply per the current ASCE 7 standard).
5. These windows are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. Any change to this product's components and/or assembly without the knowledge & consent of W. W. Schaefer Engineering & Consulting, P.A. and Warren W. Schaefer, P.E. shall void this evaluation/certification and thus the products Florida approval.

Quality Assurance Entity: Keystone Certifications, Inc.

Disclaimers:

1. The parts, components, assembly & performance of this product, and liability there-of are the sole responsibility of the manufacturer and their quality assurance and shall be as tested unless stated otherwise in this evaluation report or the uploaded approval drawing No. 1827. Neither W. W. Schaefer Engineering & Consulting, P.A. nor Warren W. Schaefer, P.E. claim any responsibility for said parts, components, assembly or performance and shall be deemed responsible only for the evaluation of the product as stated here-in.

