

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

15211 97th Road N
West Palm Beach, FL 33412
Ph/Fx: (561) 225-1982

PRODUCT EVALUATION

PRODUCT: WTG-700 SERIES CURTAINWALL SYSTEM

MANUFACTURER: WEST TAMPA GLASS COMPANY
2705 N. 35TH STREET
TAMPA, FL 33605

To all concerned,

The WTG-700 Series Curtainwall System, manufactured by the West Tampa Glass Company, is a shop or field glazed aluminum curtainwall system with Captured or SSG mullion options. The system has been tested per TAS 201/202/203-1994, E1886-13a, and E1996-14a, as shown in the test reports listed on page 3, which is equivalent to the requirements of AAMA 501-15.

Technical Documentation:

1. Drawing "WTG 700 Series", dated 5/31/24, signed and sealed by Scott Wolters, PE.
2. Test Reports listed on Page 3 of this Eval report.
3. Supplemental Calculations to support Drawing WTG 700 Series, signed & sealed by Scott Wolters, PE.

I have reviewed this submittal per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). Based on the limitations listed below and those provided in the documents above, this product meets all the requirements of the 8th Edition (2023) Florida Building Code generally, and chapters 16, 20, and 24 specifically, for use inside and outside of the High Velocity Hurricane Zone.

Limitations: This system has been tested and approved for use inside and outside of the HVHZ.

Impact Resistance: Glass types G1-G2T and ACM Panels P1 and P2 are not impact resistant. An impact resistant shutter system is required in Windborne Debris Regions.

Glass types G3-G5 and ACM Panel P3S are small missile impact resistant. An impact resistant shutter system is required in windborne debris regions below 30 ft

Glass Types G6-G10 and ACM Panels P3L and P4 are Level D large and small missile impact resistant. Shutters are not required in windborne debris regions.

Glass Types G11-G16A and ACM Panels P5-P7 are Level E large and small missile impact resistant. Shutters are not required in windborne debris regions.

Maximum Design Pressures:

Varies. See Glass and Panel Charts on Installation Drawing Sheets 2-5C
See Mullion Charts on Installation Drawing Sheets 18-18D.
See Head/Sill Anchor Requirements on Sheets 00, & 17-17A.
See Mid-Span Anchor Requirements on Sheets 13-14B.
The lowest pressure applies to the entire system.

Glass:

Design pressures for the glass are based on testing listed above and ASTM E1300-16. Design Pressures for SSG Glazing are also limited by Stress on the structural silicone joint. Please see the glass charts on sheets 2-5C of installation drawing for allowable sizes and design pressures.

See Installation Drawing Sheets 2-5C for complete glass make-ups. Please note:

The PVB Interlayer is manufactured by the Eastman Chemical Company per NOA# 23-0713.18, or by Kuraray America Inc, per NOA# 24-0205.08.

The Uveköl Interlayer is manufactured by Allnex USA. I have evaluated the interlayer material listed and find that it complies with all of the requirements of the 8th Edition (2023) Florida Building Code.

The Vanceva Interlayer (Saflex Storm) is manufactured by Eastman Chemical Company, per NOA# 24-0312.10

The SGP Interlayer (Sentryglas) is manufactured by Kuraray America Inc, per NOA# 23-0717.30

Mullions and Reinforcing:

Please see the Mullion charts on Sheets 18-18D of the Installation Drawing for allowable mullion heights, spacing, design pressures, and steel reinforcing requirements.

Mullions must be extruded from aluminum alloys listed on Sheets 25-26 of the Installation Drawing.

Anchors:

Please see the Head/Sill Anchor Chart on Sheet 00 and the corresponding layouts on Sheets 17-17A for anchor type, size, spacing, embedment, edge distance limitations, and allowable loads.

The mid-span anchors are limited per the details and notes on Sheets 13-14B.

Doors:

Door details shown are for reference only. Please see separate product approval for door information.

Test Reports: The WTG-700 system was tested per the Requirements of TAS 201/202/203-94, ASTM E1886-13a, and E1996-14a, as shown in the test reports listed below, which are equivalent to the requirements of AAMA 501-15.

By Testing Evaluation Laboratories:

TEL 08-01490001 – Signed and Sealed by Wendell W. Haney, PE
TEL 01490139 – Signed and Sealed by Lyndon F. Schmidt, PE.
TEL 01490190 – Signed and Sealed by Lyndon F. Schmidt, PE.
TEL 01490268 – Signed and Sealed by Lyndon F. Schmidt, PE.
TEL 01490475 – Signed and Sealed by Lyndon F. Schmidt, PE.
TEL 01492060 - Signed and Sealed by William B. Shelton, PE.
TEL 01492061 - Signed and Sealed by William B. Shelton, PE.
TEL 01492062 - Signed and Sealed by William B. Shelton, PE.
TEL 01492063 - Signed and Sealed by William B. Shelton, PE

By Hurricane Test Lab:

0519-1204-08 – Signed and Sealed by Vinu J. Abraham, PE.
0519-0802-08 – Signed and Sealed by Vinu J. Abraham, PE.

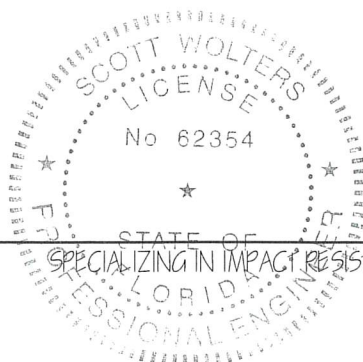
By Intertek-ATI:

E1217.01-401-18 - Signed and Sealed by Justin P. McDonald, PE.
G6791.01-401-18 - Signed and Sealed by Justin P. McDonald, PE.
G0663.01-450-32 - Signed and Sealed by Joseph A. Reed, PE.
G6792.01-401-18 - Signed and Sealed by Justin P. McDonald, PE.
F6102.01-401-44 - Signed and Sealed by Gary T. Hartman, PE.
K6623.01-450-18 - Signed and Sealed by Vinu J. Abraham, PE.
P7901.01-450-18 - Signed and Sealed by Vinu J. Abraham, PE.
N5711.01-450-32-R1 – Signed and Sealed by Tanya A. Dolby, PE.
Q0332.01-450-18 – Signed and Sealed by Tanya A. Dolby, PE.
Q0146.01-450-18 – Signed and Sealed by Tanya A. Dolby, PE.

If you have any questions or need more information concerning this approval please contact me.

Thank you,


Scott Wolters
FL PE# 62354
JUL 03 2024



SPECIALIZING IN IMPACT RESISTANT CURTAINWALLS, STOREFRONTS, & WINDOWS