

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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PRODUCT EVALUATION

PRODUCT: WTG-500 SERIES CURTAINWALL SYSTEM

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

To all concerned,

The WTG-500 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 by Testing Evaluation Laboratories, with results shown in test reports TEL 08-01490001, TEL 01490139, and TEL 01490267, which are equivalent to the requirements of AAMA 501-15.

Technical Documentation:

1. Drawing "WTG 500 Series", dated 6/7/24, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above, signed and sealed by Wendell W. Haney, PE or by Lyndon F Schmidt, PE .
3. Supplemental Calculations to support "WTG 500 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-P4D are Level D large and small missile impact resistant. Shutters are not required in windborne debris regions.

Glass types G11-G13 and ACM panel P4E are Level E large and small missile impact resistant. Shutters are not required in windborne debris regions.

Maximum Design Pressures:

Varies. See Glass Charts on Installation Drawing Sheets 2-5
See Mullion Charts on Installation Drawing Sheets 18-18B
See Head/Sill Anchor Requirements on Sheets 00 & 17

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 2-5 of installation drawing for allowable sizes and design pressures.

See Installation Drawing Sheets 2-5 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 Uvekoi 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 18-18B of the Installation Drawing for allowable mullion heights, spacing, design pressures, and steel reinforcing requirements.

Mullions must be extruded from aluminum alloys listed on Sheet 22 of the Installation Drawings.

Anchors:

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

Doors:

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

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

