

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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

PRODUCT EVALUATION

PRODUCT: C.T. WINDOWS T850 SERIES CURTAINWALL SYSTEM
(LARGE & SMALL MISSILE, CAPTURED & SSG)

MANUFACTURER: C.T. WINDOWS, LLC
9195 BOGGY ROAD
ORLANDO, FL 32824

To all concerned,

The C.T. Windows T850 Series Curtainwall System is a structurally glazed or captured curtainwall system designed for (level D & level E) large and small missile impact resistance. The system has been tested per TAS 201/202/203, ASTM E1886 (2019 equivalent), and ASTM E1996 ((2020 equivalent) by Fenestration Testing Lab, Inc, National Certified Testing Lab, and QAI Laboratories, with results shown in test reports 15-6292 (FTL), NCTL-210-4192-01, NCTL-210-4210-1, NCTL-210-4233-01A, NCTL-210-4085-01, NCTL-210-4091-01, NCTL-210-4050-01, and MED-2031a (QAI). I have reviewed the testing listed and find that it is equivalent to AAMA 501-15 for this product.

Technical Documentation:

1. Drawing "AAT1-23" dated 8/28/24 (Rev. 1), signed and sealed by Scott Wolters, PE.
2. Test Report listed above by Fenestration Testing Lab, signed and sealed by Idalmis Ortega, PE.
3. Test Reports listed above by NCTL, signed and sealed by Douglas J. McDougall, PE.
4. Test Report listed above by QAI Laboratories, signed and sealed by Idalmis Ortega, PE.
5. Supplemental Calculations to support Drawing AAT1-23, signed and 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, including the HVHZ provisions.

Limitations: This system has been tested and approved for (level D & level E) large and small impact resistance for use inside and outside the HVHZ. Shutters are not required in windborne debris regions.

Maximum Design Pressures: Varies. See Glass Charts on AAT1-23 Sheet 4.
Single Span Mullion Chart on AAT1-23 Sheet 5.
Multi-Span Mullion Charts on AAT1-23 Sheet 6.
And Anchor Limitations on AAT1-23 Sheets 14-21.
The lowest pressure applies to the entire system.

Glass: Design pressures for glass are limited by testing listed above, ASTM E1300-16, and silicone stress for SSG glazing. Please see the charts on sheet 4 of AAT1-23 for allowable sizes and design pressures. See Details on Sheet 4 of AAT1-23 for glass make-up.

Large Missile – Level E:

Glass Type G3: 1 5/16" Insulated Laminated with 0.180" Sentryglas* Interlayer

Glass Type G3B: 1 5/16" Insulated Laminated with 0.150" Saflex Storm++ Interlayer

Large Missile – Level D:

Glass Type G1A: 1 5/16" Insulated Laminated with 0.075" Saflex Storm++ Interlayer

Glass Type G1B: 1 5/16" Insulated Laminated with 0.090" Trosifol PVB^^ Interlayer

Glass Type G1C: 1 5/16" Insulated Laminated with 0.090" Sentryglas* Interlayer

Small Missile:

Glass Type G2: 1 5/16" Insulated Laminated with 0.060" Saflex Storm++ Interlayer
or 0.060" Trosifol PVB^^ Interlayer

* The Sentryglas Interlayer is manufactured by Kuraray America Inc, per NOA# 23-0717.30.

++ The Saflex Storm Interlayer is manufactured by the Eastman Chemical Company, per NOA# 23-0713.21.

^^ The Trosifol PVB Interlayer is manufactured by the Kuraray America Inc, per NOA# 23-0707-28.

Mullions and Reinforcing:

Please see the charts on Sheets 5 (Single Spans), and 6 (Multi-Spans) of drawing AAT1-23 for allowable mullion lengths and pressures for the different combinations of mullions and reinforcing.

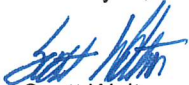
Mullions must be extruded from aluminum alloys listed on Sheets 26-28 of drawing AAT1-23.

Anchors:

Please see the Anchor Tables on Sheets 14-17 of drawing AAT1-23, and the corresponding details for the allowable anchors at the head and sill. The mid-span anchors are limited per the details and notes on Sheets 18-21.

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

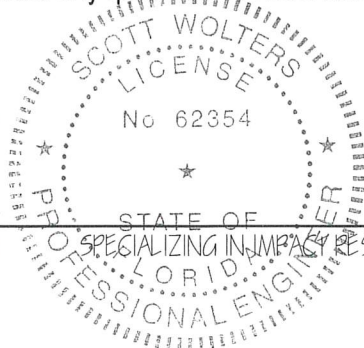
Thank you,



Scott Wolters

FL PE# 62354

AUG 29 2024



SPECIALIZING IN IMPACT RESISTANT CURTAIN WALLS, STOREFRONTS, & WINDOWS