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EQUIVALENCY OF STANDARDS EVALUATION

Product Manufacturer:	*Product Name/Model & Description:*
C.T. Windows, LLC. *9195 Boggy Creek Rd. #1* *Orlando, FL 32824*	***Series 3 IR – Hybrid Curtain Wall*** *Large and small missile impact curtain wall system (for Non-HVHZ)*

Code: **8th Edition 2023 Florida Building Code**, inclusive of all Supplements effective as of this report date.

Compliance Method: Product Approval Rule 61G20-3.015(5)(d) – Equivalency of Standards

Certification of Equivalence: The testing standards listed below, although not explicitly referenced within the above-noted building code, are hereby deemed equivalent for the purposes of determining this product's compliance with the above-noted building code:

Product Testing and Certification:

- National Certified Testing Laboratories (NCTL) –Orlando, FL test report #NCTL-210-3858-01

Performance Testing:

- ASTM E1996 (Large Missile Impact Test)
- ASTM E1886 (Cyclic Wind Pressure Loading)
- ASTM E330 (Static Load Test)
- ASTM E283 (Air Infiltration Test)
- ASTM E331 & E547 (Water Infiltration Test)

Equivalency Evaluation to AAMA 501-15:

- Code Requirements for testing to AAMA 501-15:
  - Section 1709.8.4 of the Florida Building Code requires glazed curtain wall, window wall, and storefront systems to be tested in accordance with the requirements of that section and the Laboratory Test requirements of the American Architectural Manufacturers Association (AAMA) Standard 501, HVHZ complying with Section 2411.3.2.1.1.
    - This product is **NOT** tested for HVHZ requirements. Product approval is **NOT** for HVHZ.
    - All other requirements of Section 1709.8.4 must be met.
    - Conformance to AAMA 501-15:

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November 16th, 2023

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- Laboratory Test requirements in AAMA 501-15 include sections listed as required and as optional. They are:
  - **Required** – All required testing performed and documented in Test Reports listed above demonstrating compliance with Section 1709.8.4.
    - Section 2.1 - Test Load Sequence
    - Section 2.2 - Preload Test at 50% DP
    - Section 2.3 - ASTM E283 Air Leakage
    - Section 2.4 - ASTM E331 Water Penetration
    - Section 2.9 - ASTM E330 Testing
    - Section 2.10 - ASTM E331 Water Resistance Repeated
    - Section 2.11 - ASTM E330 at 150% DP

    All the above tests were performed in accordance with the standard requirements as documented in Test Reports listed above.
  - Optional – The following sections in AAMA 501-15 are listed as optional and were not performed.
    - Section 2.5
    - Section 2.6
    - Section 2.7
    - Section 2.8
    - Section 2.12
    - Section 2.13
    - Section 2.14
    - Section 2.15

- Conclusion
  - Based on the above evaluation, the Laboratory Test requirements of the American Architectural Manufacturers Association (AAMA) Standard 501 with HVHZ complying with Section 1709.8.4 of the 8th Edition Florida Building Code (2023) have been met by the testing documented in Test Reports listed above.

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