

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
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Mobile: (305) 588-5224
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PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> C.T. Windows, LLC. 9195 Boggy Creek Rd. #1 Orlando, FL 32824	<u>Product Name/Model & Description:</u> SERIES 400 THERMAL CASEMENT WINDOW – N.I. NON IMPACT
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

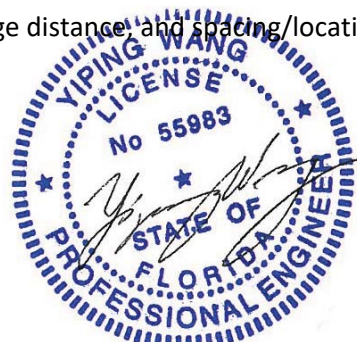
Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

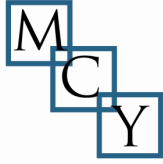
Product Description: Product Approval Drawing #AD21-59, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **outside of the HVHZ** (High-Velocity Hurricane Zone)
- Impact Resistance: **NON-Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at the related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



November 16th, 2023



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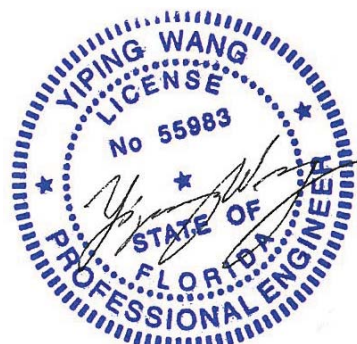
Test Reports:

Mandatory Tests (Tested in accordance with AAMA/WDMA/CSA101/I.S.2/A440)

Test Lab	Report Number	Test Report Date	Test Standard & Description
National Certified Testing Laboratories, (NCTL), Orlando FL	NCTL-210-4229-01	11/17/21	ASTM E330 (static load test) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM E547 (water resistance test)

Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



November 16th, 2023