

Equivalency Evaluation Report

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Product Manufacturer

CAT 5 Hurricane Screens, LLC.
13474 Chambord St.
Brooksville, FL 34613

Product Name, Model and/or Description

Wind Abatement System

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Product Category/Sub-Category: Shutters/Fabric Storm Panel

Product Name, Model and/or Designation; Test Report No.; and Installation Drawing No.:

- Wind Abatement System
 - Test reports and associated laboratory drawings by Certified Testing Laboratories, Orlando, FL
 - CTLA-1523W, 78" x 120" Wind Abatement System, Geotextile Polypropylene Fabric Storm Protection Screen Testing to ASTM E330-02, ASTM E 1886-02 and ASTM E 1996-02 to Design Pressure of + 90 psf - 90 psf. Dated 5/19/06, Signed and Sealed by Ramesh Patel, P.E., FL License No. 20224.
 - CTLA-1827W, 144" x 180" Wind Abatement System, Geotextile Polypropylene Fabric Storm Protection Screen Testing to ASTM E330-02, ASTM E 1886-02 and ASTM E 1996-02 to Design Pressure of + 60 psf - 60 psf. Dated 4/17/08, Signed and Sealed by Ramesh Patel, P.E., FL License No. 20224.
 - PTC Product Design Group Drawing No. CAT0005, Rev. C, dated 1/16/18, *CAT5 Hurricane Screens Wind Abatement System – Installation Anchorage Details*, signed and sealed by Robert. J. Amoruso, P.E.

Performance Testing:

- ASTM E330-02, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E1886-02, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
- ASTM E1996-02, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes

Performance Testing Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

Testing Standards Used		Testing Standards Required by the 8th Edition (2023) of the Florida Building Code		Comments
ASTM Designation	Year	FBC	FRC	
E330	02	14	14	See EVALUATION CONCLUSION below.
E1996	02	14a	14a	
E1886	02	13a	13a	

EVALUATION CONCLUSION: Where ASTM revision level differs, the testing requirements have been evaluated to determine if any differences exist that may result in testing outcomes different if based on the revision level required in the 8th Edition (2023) of the Florida Building Code. It was determined that the product testing is equivalent to the prescribed standards in the 8th Edition (2023) of the Florida Building Code.



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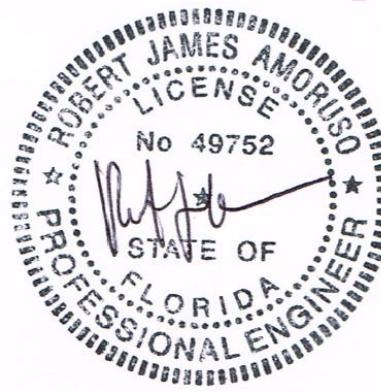
ASTM E1996 Testing Evaluation:

- 1) Wind Zone 4 testing
 - a. ASTM E1996-14 moved Wind Zone 4 criteria to the non-mandatory appendix. As indicated in Appendix X4.1, ASTM E1996-14a the Wind Zone 4 requirement, though non-mandatory, is still present and may be specified when needed to meet specific building codes requirements. Those requirements are detailed in Sections 1609.1.2.2, 1609.1.2.4 and 1609.3 of the Florida Building Code. Based on a review of the test reports, those parameters are met.
- 2) The Missile Level and Impact Speed used in testing are consistent with those currently required by the Florida Building Code and ASTM E11996.
- 3) The static load (ASTM E330) and cyclic load (ASTM E1886/E1996) parameters used in testing are consistent with those currently required by the Florida Building Code.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



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by Robert J
Amoruso
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Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752

