Product Evaluation Report

Product Manufacturer	Product Name, Model and/or Description
EFCO CORPORATION 1000 County Road Monett, Missouri 65708	Series 2701 & 811I Casement Window - Outswing

Code: Current Edition of the Florida Building Code including the 7th Edition (2020) Florida Building Code

Compliance Method: Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Name, Model and/or Designation - Test Report No. - Installation Drawing No.: Products covered by this evaluation include the following.

- Series 2701 & Casement Window - Outswing
  - Intertek/ATI Test Report No. L2083.01-801-18-R0, dated 9/21/20, Series 2701 Casement Window - Outswing, TAS 201, TAS 202 and TAS 203 testing.
  - PTC Product Design Group Drawing No. EFCO-030, dated 12/14/20, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.
- Series 811I Casement Window - Outswing
  - Intertek/ATI Test Report No. L2087.01-801-18-R0, dated 9/21/20, Series 811I Casement Window - Outswing, TAS 201, TAS 202 and TAS 203 testing.
  - PTC Product Design Group Drawing No. EFCO-031, dated 12/14/20, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.

Component Certification: Glazing Interlayers to 7th Edition (2020) Florida Building Code.

- Eastman Chemical Company (MA), Saflex Storm (formally including Vanceva brand name) is approved to the 7th Edition (2020) Florida Building Code. See MD Notice of Acceptance (NOA) here.
- Kuraray American SentryGlas (SG) (formally including SentryGlas+ or SGP brand name) is approved to the 7th Edition (2020) Florida Building Code. See MD Notice of Acceptance (NOA) here.

Engineering Analysis & Evaluation:

- PTC Report No. 2704, Rev. 0, *EFCO Corporation, Series 2701 & 811I Window Systems Anchorage Engineering*, dated 12/17/20, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752 in accordance with the current edition of the Florida Building Code.
- PTC Report No. 2604, Rev. 2, *EFCO Corporation, Series 2701 & 811I Window and Mullion Systems Test Plan and AAMA 450-10 Evaluation Report*, dated 12/16/20, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.

Performance Testing:

- TAS 201
- TAS 202
- TAS 203

Limitations & Conditions of Use:

- This product has been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
- This product is Impact Resistant. An approved impact protective device will not be required when installed in Wind Borne Debris Regions including the HVHZ.
- Refer to Product Installation Instructions noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).

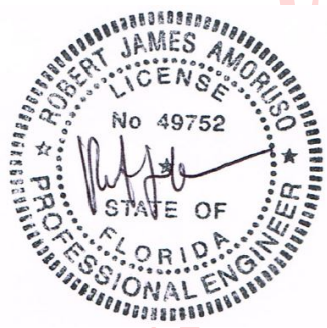
- Overall dimensions and material/grade of main product components, accessories, etc.
- Illustrated diagrams of the attachment of the product to substrate structure.
- Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.

- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

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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Date: 2021.02.04 19:03:00 -05'00'

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