

Product Evaluation Report

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Product Manufacturer

EFCO CORPORATION
1000 County Road
Monett, Missouri 65708

Product Name, Model and/or Description

Series 2701 & 811i
Mullion System

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.:

- Series 2701 Fixed Over Project-Out Awning Window, Three-Unit Muller Assembly
 - Intertek/ATI Test Report No. L2085.01-801-18-R0, dated 10/7/20, Series 2701 Fixed Over Project-Out Awning Window, TAS 201, TAS 202 and TAS 203 testing.
- Mullion Validation Testing (above test report):
 - The Series 2701 & 811i mullion system was tested using AAMA 450-10, Option No. 1 (total assembly testing) and product grouping per section 6.0 of AAMA 450-10.
 - See Appendix A for additional details.

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. Amoroso, 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. Amoroso, P.E., FL License Number 49752.

Performance Testing and Engineering:

- Performance Standards used in engineering:
 - AAMA 450-10
- Performance Standards used in testing:
 - TAS 201-1994
 - TAS 202-1994
 - TAS 203-1994

Series 2701 & 811i Product Applicability:

The following products are approved for use with this mullion system.

- Series 2701
 - Casement (drawing no. EFCO-030)
 - Fixed over project out awning (drawing no. EFCO-028)
 - Fixed (drawing no. EFCO-026)
- Series 811i
 - Casement (drawing no. EFCO-031)
 - Fixed over project out awning (drawing no. EFCO-029)
 - Fixed (drawing no. EFCO-027)

See associated Florida Product Approvals for the above unit individual approvals.



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321-690-1788 | FBPE Certification of Authorization No. 25935

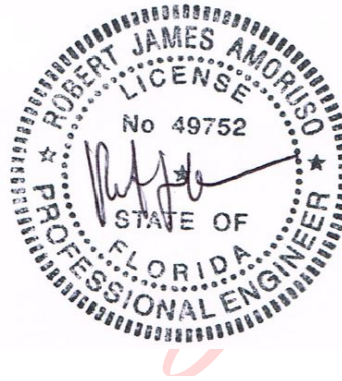
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Certificate of Independence per Product Approval Rule 61G20-3.009

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.

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



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Appendix A - Mullion Validation Testing

AAMA 450-10 Grouping was used to determine the worst-case mullion configuration for testing.

Series 2701 window frame exhibit a smaller width profile then the Series 811 window frame.

Therefore, the Series 811 mullion will have larger section properties over the Series 2701 mullion due to the larger eccentricities of the mullion areas from the neutral axis of the mullion section.

Series 2701 window frames have lower section properties over those of the Series 811 window frames.

Series 2701 Fixed/Project-Out frame has the lowest section properties.

REFERENCE: 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.

