

Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2543-PER, Rev. 2 | Project No. 423-0107 | 6/26/23 | Page 1 of 3

Product Manufacturer

CENTRIA
1550 Coraopolis Heights Road
Suite 500
Moon Township, PA 15108

Product Name, Model and/or Description

Formavue FV400HR Curtain Wall System
Formavue FV600A Curtain Wall System

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) 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: Products covered by this evaluation include the following.

- FV400HR Curtain Wall System
- FV600A Curtain Wall System

Installation Drawings: Installation drawing listed below signed and sealed by Robert J. Amoruso, P.E.

- Centria Formavue FV400HR Curtain Wall System Installation Drawing, dated 4/24/18, Issue 1, Signed and Sealed by Robert J. Amoruso, P.E.
- Centria Formavue FV600A Curtain Wall System Installation Drawing, dated 4/24/18, Issue 1, Signed and Sealed by Robert J. Amoruso, P.E.

Engineering Analysis & Evaluation:

- PTC Calc No. 2543-A, Rev. 0, Centria Formavue FV400HR Curtain Wall System Structural Evaluation and Anchorage, dated 3/10/18, 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 Calc No. 2543-B, Rev. 0, Centria Formavue FV600A Curtain Wall System Structural Evaluation and Anchorage, dated 6/10/18, 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. 2543-EER, Rev. 2, Formavue FV400HR Curtain Wall System Equivalency Evaluation, dated 3/10/18, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.

Performance Testing and Test Reports:

- FV400HR Curtain Wall System – HVHZ
 - Air, Water and Structural Testing; Impact and Cyclic Loading Testing to TAS 201-94, TAS 202-94 and TAS 203-94 HVHZ Test Protocols are listed below.
 - Farabaugh Engineering and Testing Inc., 401 Wide Drive, McKeesport, PA 15135, Test Report No. T208-09, dated September 8, 2009, signed and sealed by Daniel G. Farabaugh, P.E.
- FV600A Curtain Wall System – Non-HVHZ
 - Air, Water and Structural Testing to AAMA 501-05; ASTM E283-04, ASTM E331-00 and ASTM E330-02
 - Farabaugh Engineering and Testing Inc., 401 Wide Drive, McKeesport, PA 15135, Test Report No. T168-12, dated April 4, 2012, signed and sealed by Daniel G. Farabaugh, P.E.
 - Farabaugh Engineering and Testing Inc., 401 Wide Drive, McKeesport, PA 15135, Test Report No. T166-12, dated April 3, 2012, signed and sealed by Daniel G. Farabaugh, P.E.
 - Farabaugh Engineering and Testing Inc., 401 Wide Drive, McKeesport, PA 15135, Test Report No. T107-12, dated April 4, 2012, signed and sealed by Daniel G. Farabaugh, P.E.



Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2543-PER, Rev. 2 | Project No. 423-0107 | 6/26/23 | Page 2 of 3

Performance Testing Standards:

FV400HR Curtain Wall System – HVHZ

- TAS 201-94
- TAS 202-94
- TAS 203-94

FV600A Curtain Wall System – Non-HVHZ

- AAMA 501-05
- ASTM E283-04
- ASTM E331-00
- ASTM E330-02

Component Certification and Code Conformance:

- FV400HR Curtain Wall System – HVHZ
 - Eastman Chemical Company (MA) Saflex PVB interlayer code conformance per the currently issued Miami-Dade NOA to the Current Edition of the Florida Building Code. See Miami-Dade NOA listing [here](#).
 - Silicone Glazing Gasket (Part No. FWS88) confirmed as meeting Chapter 24 of the Florida Building Code for HVHZ.
 - Setting Block (Part No. FWS90) confirmed as meeting Chapter 24 of the Florida Building Code for HVHZ.

Limitations & Conditions of Use:

- FV400HR Curtain Wall System – HVHZ
 - This product HAS been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
 - This product is Impact Resistant. An impact protective device is not required when this product is used in a wind-borne debris region.
- FV600A Curtain Wall System – Non-HVHZ
 - This product HAS NOT been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
 - This product is not Impact Resistant. An impact protective device is required when this product is used in a wind-borne debris region.
- 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.



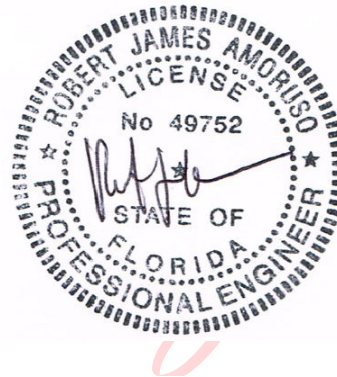
Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2543-PER, Rev. 2 | Project No. 423-0107 | 6/26/23 | Page 3 of 3

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.



Digitally signed
by Robert J
Amoruso
Date:
2023.08.14
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Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752

