

Product Evaluation Report

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Product Manufacturer

Pella Corporation
102 Main Street
Pella, Iowa 50219

Product Name, Model and/or Description

Impervia Fiberglass 2.0 Window Frame
Mullion System – WZ3 Impact Rated

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

Compliance Methods: Florida Product Approval Rule and Florida Building Code

- Rule No. 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer
- AAMA 450-10, Option 1
- AAMA/WDMA/CSA 101/I.S. 2/A440-2008, 2011 and 2017

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

- Impervia Fiberglass 2.0 Window Frame Mullion System

Test Reports: AAMA 450-10 / AAMA/WDMA/CSA 101/I.S. 2/A440-2008, 2011 and 2017 testing by Element Materials Technology, 3922 Delaware Ave., Des Moines, IA 50313

- Report No. ESP033370P.4, dated July 17, 2020, PRODUCT NAME: Impervia Mullion, PRODUCT TYPE: 3 Way Direct Mullion, SERIES/MODEL: Pella Impervia, Standard/Specifications: AAMA 450-10 and Summary FW – LC-MA-20. Specimen 1.
- Report No. ESP033370P.1, dated June 30, 2020, PRODUCT NAME: Impervia Mullion, PRODUCT TYPE: 2 Way ½” Spread Mullion with Steel Reinforcement, SERIES/MODEL: Pella Impervia, Standard/Specifications: AAMA 450-10 and Summary FW – LC-MA-50. Specimen 2.
- Report No. ESP033370P.3, dated June 30, 2020, PRODUCT NAME: Impervia Mullion, PRODUCT TYPE: 4 Way Mullion, 1” Spread Mullion with 2 steel reinforcements for horizontal through mullion, ½” spread mullion for vertical mullions, SERIES/MODEL: Pella Impervia, Standard/Specifications: AAMA 450-10 and Summary FW – LC-MA-35. Specimen 3.
- Report No. ESP033370P.2, dated June 30, 2020, PRODUCT NAME: Impervia Mullion, PRODUCT TYPE: 4 Way Mullion, 1” Spread Mullion with 2 steel reinforcements for vertical through mullion, ½” spread mullion for horizontal mullions, SERIES/MODEL: Pella Impervia, Standard/Specifications: AAMA 450-10 and Summary FW – LC-MA-50. Specimen 4.

Engineering Analysis & Evaluation:

- PTC Product Design Group, Inc. Product Evaluation Report No. 2639, Rev. 6, Impervia Fiberglass 2.0 Window Frame Mullion System, AAMA 450-10 Mullion Grouping, Test Plan & Specimens; prepared, signed and sealed by Robert J. Amoruso, FL PE No. 49752.
- PTC Product Design Group, Inc. Product Evaluation Report No. 2722, Impervia Fiberglass 2.0 Window Frame Mullion System Mull Span vs. Load Width Rating Tables & Installation Details; prepared, signed and sealed by Robert J. Amoruso, FL PE No. 49752.
- PTC Product Design Group, Inc. Calculation No. 2722, Impervia Fiberglass 2.0 Window Frame Mullion System, Mullion Span vs. Load Width Evaluation; prepared, signed and sealed by Robert J. Amoruso, FL PE No. 49752.
- PTC Product Design Group, Inc. Calculation No. 2692, Impervia Fiberglass 2.0 Window Frame Mullion System, Installation Anchorage Allowables; prepared, signed and sealed by Robert J. Amoruso, FL PE No. 49752.



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- PTC Product Design Group, Inc. Product Evaluation Report No. 2788, Impervia Fiberglass 2.0 Window Frame Mullion System, Evaluation for Wind Zone 3 Impact Protection; prepared, signed and sealed by Robert J. Amoruso, FL PE No. 49752.

Performance Standards (used in testing):

- AAMA/WDMA/CSA 101/I.S.2/A440-08
- AAMA/WDMA/CSA 101/I.S.2/A440-11
- AAMA/WDMA/CSA 101/I.S.2/A440-17

Limitations & Conditions of Use:

- This product has not been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
- This product has been evaluated for use in mulled window assemblies where the windows have been tested, designed, and approved for use for impact protection (testing per ASTM E1886/E1996, WZ3 or TAS 201/203). In those instances, an approved impact protection system will not be required when used in Wind Zone 1, 2 or 3 wind borne debris regions. Usage is not allowed in Wind Zone 4 or High Velocity Hurricane Zone (HVHZ).
- If the windows of the mulled window assembly have not been tested for impact protection, this product will require an approved impact protective system when used in wind borne debris regions.
- Refer to Product Installation Instructions in Product Evaluation Report No. 2722 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.
- Refer to Product Installation Instructions in Product Evaluation Report No. 2722 for:
 - Mullion Span vs. Load Width Rating Tables for the following.
 - Two-Way Vertical or Horizontal Mullion Configuration.
 - Three- Way Mullion Configuration.
 - Four-Way Mullion Configuration with a Horizontal Through Mullion
 - Four-Way Mullion Configuration with a Vertical Through Mullion
- 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.



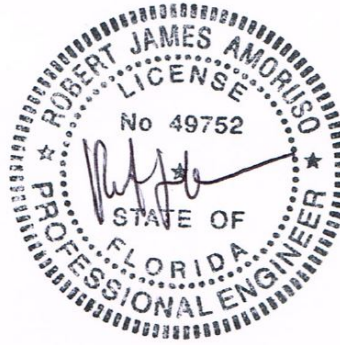
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Certificate of Independence per Product Approval Rule 61G20-3.009

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.

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

