

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2414-EER, Rev. 3 | Project No. 422-1106 | 11/9/23 | Page 1 of 3

<u>Manufacturer</u>	<u>Product Series, Model and/or Description</u>
Weather Shield Windows & Doors 829 N. 8th Street Medford, WI 54451	Horizontal and Vertical Mullion System – Impact Resistant

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 Testing Results: testing by Element Materials Technology (Wausau, WI) – See Appendix A Matrix for more details.

- Non-HVHZ Testing
 - ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal)
- HVHZ Testing
 - ESP019892P-1719 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal), dated 5/28/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.
 - ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal), dated 4/2/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.
 - ESP018829P-1676 (Vertical Mullion C), Dated 2/20/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.

Performance Testing Standards: Performance testing standards used in the above test reports were:

- AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration Standard/Specification for windows, doors, and skylights.
- AAMA/WDMA/CSA 101/I.S.2/A440-11, North American Fenestration Standard/Specification for windows, doors, and skylights.
- ASTM E1886-13a, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
- ASTM E1996-12a, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
- TAS201-94, Impact Test Procedures.
- TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
- TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.

Product Installation Instructions:

- WS0001, Rev. C, dated 9/13/21, Weather Shield Windows and Doors, *Horizontal & Vertical Mullion System - Impact Resistant Mullion Span vs. Load Width Tables - Installation Anchorage Details*, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.



Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2414-EER, Rev. 3 | Project No. 422-1106 | 11/9/23 | Page 2 of 3

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

The tables below equate performance testing standard revision levels and compares them to the revision level in the 8th Edition (2023) FBC – Test Protocols.

HVHZ Testing	
Standard Used in Testing	Standard as Listed in 2020 FBC – Test Protocols
TAS 201-1994	TAS 201-1994
TAS 202-1994	TAS 202-1994
TAS 203-1994	TAS 203-1994

Based upon my review of the test reports, test methods and results as well as the standards used in testing and those currently required in the Florida Building, Residential Code and HVHZ Testing Protocols, the following is concluded.

- The testing requirements in the current edition of the Florida Building Code – Testing Protocols TAS 201, TAS 202 and TAS 203 have been met.

NON-HVHZ Testing			
Performance Testing Standard	Test Standard Revision Level used in testing	Current Edition of the Florida Building Code Test Standard Revision Level Used for Comparison	
		Building Volume	Residential Volume
AAMA/WDMA/CSA 101/I.S.2/A440	08	08	08
AAMA/WDMA/CSA 101/I.S.2/A440	11	11	11
ASTM E1886	13a	13a	13a
ASTM E1996	12a	14a	14a

Based upon my review of the test reports, test methods and results as well as the standards used in testing and those currently required in the Florida Building Code, the testing requirements in the 8th Edition (2023) Florida Building Code have been met.



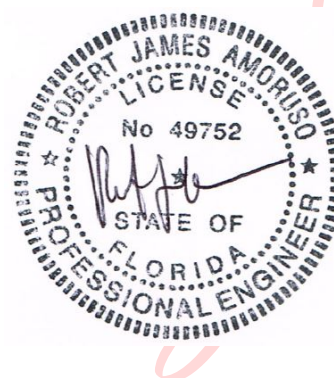
Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2414-EER, Rev. 3 | Project No. 422-1106 | 11/9/23 | 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:
2023.12.08
14:08:50 -05'00'

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

