

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1799-EER, Rev. 3 | Project No. 420-0804 | 11/7/20 | Page 1 of 3

Product Manufacturer

Pella Corporation
102 Main St.
Pella, IA 50219

Product Name, Model and/or Description

See List Below

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

Compliance Methods: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Product Name, Model and/or Description:

- 1/2" Light Duty Aluminum Mullion with End Anchors - Window to Window Combinations
- 1/2" Standard Aluminum Mullion with End Anchors - Window to Window Combinations
- 1/2" Standard Aluminum Mullion with Reinforcement and End Anchors - Window to Window Combinations
- 1" Aluminum Mullion with End Anchors - Window to Window Combinations
- 1" Aluminum Mullion with Reinforcement and End Anchors - Window to Window Combinations

Performance Testing Standards Equivalency Evaluation

Performance Testing Standards used in Product Testing Listed Below:

- AAMA 450-06
- ASTM E330-02
- ASTM E283-04
- ASTM E547-00

Product Testing: Stork Twin City Testing Corporation, 3922 Delaware Ave., Des Moines, IA 50313 Test Reports listed below:

Stork Report No.	Stork Report Date	Frame	Config	Overall Width (in)	Overall Height (in)	Mull	Clip	Air Infiltration (ASTM E283)	Water Penetration Resistance (ASTM E547)
TCT006132P.1	4/3/2011	4.50" Block Frame W/ 5/8" Flng.	4-way	120	120	1" w/reinf.	Flange	1.57 psf and 6.24 psf	15 psf
TCT006132P.2	4/3/2011	4.5" NF with End Clip	3-way	120	120	1"	Fin	1.57 psf and 6.24 psf	11.29 psf
TCT006132P.3	4/3/2011	4.50" Block Frame	3-way	120	120	1/2" LD	Block	1.57 psf and 6.24 psf	15 psf
TCT006132P.4	4/3/2011	4.5" NF with End Clip	4-way	120	120	1"	Fin	1.57 psf and 6.24 psf	15 psf
TCT006132P.5	4/3/2011	4.50" Block Frame	4-way	120	120	1"	Block	1.57 psf and 6.24 psf	15 psf
TCT006132P.6	4/3/2011	4.50" Block Frame	4-way	120	120	1/2" LD	Block	1.57 psf and 6.24 psf	15 psf
TCT006132P.7	4/3/2011	4.5" NF with End Clip	4-way	120	120	1/2" LD	Fin	1.57 psf and 6.24 psf	15 psf



PTC Product Design Group, LLC | PO Box 520775 | Longwood, FL 32752-0775
321-690-1788 | FBPE Certification of Authorization No. 25935

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1799-EER, Rev. 3 | Project No. 420-0804 | 11/7/20 | Page 2 of 3

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

The table below equates performance testing standard revision levels and compares them to the revision level in the 7th Edition (2020) Florida Building Code and/or Florida Residential Code.

Standard Used in Testing		Current Edition of the Florida Building Code including the 7 th Edition (2020) Florida Building Code		Comments
Description	Revision Level	Building Volume (FBC)	Residential Volume (FRC)	
AAMA 450	06	10	10	See Evaluation Below
ASTM E330	02	02 & 14	14	
ASTM E283	04	04 (2012)	04 (2012)	
ASTM E547	00	n/a	n/a	

Based upon review of the test reports, test methods and results as well as the standards used in testing and those currently required in the F 7th Edition (2020) Florida Building Code and/or Florida Residential Code, the following is concluded.

- The testing requirements in the 7th Edition (2020) Florida Building Code and/or Florida Residential Code have been met for the test standards listed above.

Design Standards Equivalency Evaluation

Product Engineering Design Standards used in Product Evaluation and Rational Analysis Reports Listed Below:

- AAMA 450-06, Voluntary Performance Rating Method for Muller Fenestration Assemblies.
- AAMA 203-98, Procedural Guide – WINS
- ASTM E1996-09, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.

Product Evaluation and Rational Analysis Reports:

- PTC Engineering Reports – Summary of Design Pressure Capacities for various Load Widths vs. Mull Spans
 - No. 1786, Rev. 2, Engineering Report: Evaluation of Series 350 Vinyl Window Mulling System: 1/2" Light Duty Aluminum Mullion with Fin Frame and Block Frame Mullion End Clips, signed and sealed by Robert J. Amoruso, P.E. dated 2/16/15.
 - No. 1789, Rev. 2, Engineering Report: Evaluation of Series 350 Vinyl Window Mulling System: 1/2" Standard Aluminum Mullion with Fin Frame and Block Frame Mullion End Clips, signed and sealed by Robert J. Amoruso, P.E. dated 2/16/15.
 - No. 1792, Rev. 2, Engineering Report: Evaluation of Series 350 Vinyl Window Mulling System: 1/2" Standard Aluminum Mullion w/Stainless Steel Reinforcement with Fin Frame and Block Frame Mullion End Clips, signed and sealed by Robert J. Amoruso, P.E. dated 2/16/15.
 - No. 1795, Rev. 2, Engineering Report: Evaluation of Series 350 Vinyl Window Mulling System: 1" Aluminum Mullion with Fin Frame, Block Frame and Flange Frame Mullion End Clips, signed and sealed by Robert J. Amoruso, P.E. dated 2/16/15.
 - No. 1798, Rev. 2, Engineering Report: Evaluation of Series 350 Vinyl Window Mulling System: 1" Aluminum Mullion w/Stainless Steel Reinforcement with Fin Frame, Block Frame and Flange Frame Mullion End Clips, signed and sealed by Robert J. Amoruso, P.E. dated 2/16/15.



Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1799-EER, Rev. 3 | Project No. 420-0804 | 11/7/20 | Page 3 of 3

- PTC Evaluation Report
 - No. 1799, Rev. 2, Product Evaluation Report, Series 350 Vinyl Window Mulling System: ½" Light Duty, ½" Standard, ½" Standard w/reinforcement, 1" Structural and 1" Structural w/reinforcement Aluminum Mullion with Fin Frame, Block Frame and Flange Frame Mullion End Clips, Non-Impact and Impact (Wind Zone 3, Missile Level D)

Product Engineering Design Standards Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

The table below equates engineering design standard revision levels and compares them to the revision level in the 7th Edition (2020) Florida Building Code and/or Florida Residential Code.

Standard Used in Evaluation		Current Edition of the Florida Building Code including the 7 th Edition (2020) Florida Building Code		Comments
Description	Revision Level	Building Volume (FBC)	Residential Volume (FRC)	
AAMA 450	06	10	10	See Evaluation Below
AAMA 203	98	n/a	n/a	
ASTM E1996	09	12	12	

Based upon review of the design standards and engineering methods and results used in the design of the mullion system to those currently required in the F 7th Edition (2020) Florida Building Code and/or Florida Residential Code, the following is concluded.

- The design requirements in the 7th Edition (2020) Florida Building Code and/or Florida Residential Code have been met for the design standards listed above.
- Note that ASTM E1996-09 was used for an engineering evaluation to determine that a mullion limited to Wind Zone 3 does not have to be tested per ASTM E1996. That evaluation remains the same using ASTM E1996-12.
 - The product has NOT been tested using ASTM E1996. As the evaluation shows, testing is not required as long as the mullion fenestration product is when limited to Wind Zone 3.
 - This analysis is contained in PRC product Evaluation Report No. 1799, Rev. 2.

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:
2020.11.07
18:11:04 -05'00'

Evaluated by:
Robert J. Amoruso, P.E.
FL PE License No. 49752

