

Product Evaluation Report

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Product Manufacturer

Pella Corporation
102 Main Street
Pella, IA 50219

Product Name, Model and/or Description

1.5" Wood Spread Mull for Doors with Transoms
and/or Sidelights

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

Description of Scope:

PTC PRODUCT DESIGN GROUP, LLC was contracted by Pella Corporation to perform an engineering evaluation of their 1.5" Wood Spread Mullion for use with the following product lines, types and materials.

1. Product Lines

- Reserve Series, exterior clad and wood.
- Lifestyle Series with HGP, exterior clad
- Lifestyle Series without HGP, exterior clad
- Direct Set Aluminum Clad Wood Fixed Windows
- Pella Entry Systems, exterior clad and wood

2. Product Types

- Casement
- Awning
- Picture
- Direct Set Geometric and Radius
- Sliding Patio Door
- In-swing Patio Door
- Out-swing Patio Door
- In-swing Entry Door
- Out-swing Entry Door

3. Product Materials

- Extruded aluminum for aluminum portions of door and window frames.
- Pine for wood portions of mullion member and door and window frames.



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The method of evaluation used is that promulgated by AAMA 450-06/09/10 as follows:

- Product grouping documented in Reference 1 & 2 in conformance to the grouping requirements of Section 6.0 of Reference 4.
- Rating documented in Reference 1 & 2 in accordance with the requirements of Option 3, Structural Calculations of Section 8.0 of Reference 4 with regard to product grouping and structural analysis of mullions.

Code Conformance, Limitations and Conditions of Use:

1. This report and associated engineering is in compliance with the current edition of the Florida Building Code – Building and Residential Volumes, Chapter 17 and Chapter 6 respectively and AAMA 450, Option 3, Structural Calculations by a Professional Engineer with regard to product grouping and structural analysis of mullions.
2. Product anchors shall be as designated and described in Reference 1.a. Anchor embedment and edge distance exclude wall finishes including, but not limited to sheathing, underlayment, and shingles.

References and Supporting Documents:

1. PTC Design Group Engineering Report
 - a. Report Number 0501-05, MULLION CALCULATIONS FOR VERTICAL AND HORIZONTAL MULLION, SERIES: 1.5" Wood Spread Mull for Doors with Transoms and/or Sidelights
2. PTC Design Group Engineering Analysis
 - a. Table 1 Vertical Mullion, 2-way (side-by-side), full vertical length.
 - i. Report Number 0049
 - ii. Report Number 0050
 - b. Table 2A – Horizontal Mullion, 3-way (side-by-side w/transom), full horizontal length.
 - i. Report Number 0053
 - ii. Report Number 0054
 - c. Table 2B – Vertical Mullion, 3-way (side-by-side w/transom), sill to horizontal mull.
 - i. Report Number 0057
 - ii. Report Number 0058
 - d. Table 3 Horizontal Mullion, 2-way (one-by w/transom), full horizontal length.
 - i. Report Number 0059
 - ii. Report Number 0060
 - e. Table 4 Horizontal Mullion, 4-way (side-by-side w/transoms), full horizontal length.
 - i. Report Number 0055



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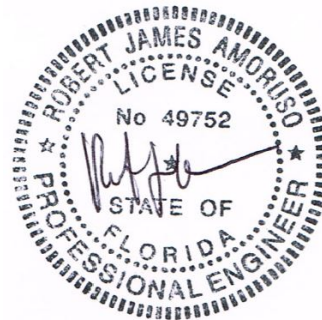
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- ii. Report Number 0056
- f. Table 5 Vertical Mullion, 4-way (side-by-side w/transoms), full vertical length, envelope of the following
 - i. Report Number 0051
 - ii. Report Number 0052
- 3. Florida Building Code
 - a. Current Edition of the Florida Building Code (FBC), Building Volume
 - i. Chapter 17 - Mullions
 - b. Current Edition of the Florida Building Code (FBC), Residential volume
 - i. Chapter 6 - Mullions
- 4. AAMA 450-06/09/10, Voluntary Performance Rating Method for Muller Fenestration Assemblies.

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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Evaluated By:
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