Product Evaluation Report

Product Manufacturer	Product Name, Model and/or Description
Pella Corporation 102 Main Street Pella, IA 50219	Joining Mullion with End Anchors - Door to Window and Door to Door Combinations

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 Joining Mullion for use with the following product lines, types, and materials.

1. **Product Lines**
   a. Reserve Series, exterior clad and wood.
   b. Lifestyle Series with HGP, exterior clad
   c. Lifestyle Series without HGP, exterior clad
   d. Direct Set Aluminum Clad Wood Fixed Windows
   e. Pella Entry Systems, exterior clad and wood

2. **Product Types**
   a. Casement
   b. Awning
   c. Picture
   d. Direct Set Geometric and Radius
   e. Sliding Patio Door
   f. In-swing Patio Door
   g. Out-swing Patio Door
   h. In-swing Entry Door
   i. Out-swing Entry Door

3. **Product Materials**
   a. Extruded aluminum for aluminum portions of door and windows.
   b. Pine for wood portions of door and window frames.

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 0506-06, MULLION CALCULATIONS FOR VERTICAL AND HORIZONTAL MULLION, SERIES: Joining 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 0061
        ii. Report Number 0062

    b. Table 2 Horizontal Mullion, 2-way (one-by w/transom), full horizontal length.
        i. Report Number 0063
        ii. Report Number 0064

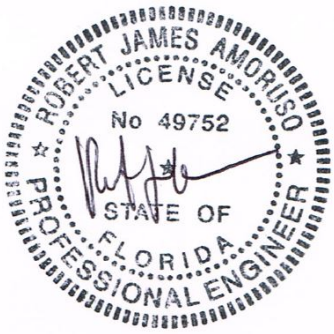
3. Florida Building Code
    a. Current Edition of the Florida Building Code (FBC), Building Volume
        i. Chapter 17 - Mullions
    b. Current Edition of the Florida Building Code (FBC), Residential volume
        i. Chapter 6 - Mullions

4. AAMA 450-06/09/10, Voluntary Performance Rating Method for Mulled 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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