

Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2435, Rev. 3 | Project No. 422-0908 | 9/2/23 | Page 1 of 3

Manufacturer

Kaycan Ltd.
1 Memorial Drive
Richford, VT 05476

Product Series, Model and/or Description

Single 7 Timbercrest Perfection Shingle Siding
Double 7 Timbercrest Perfection Shingle Siding

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

Product Name, Model and/or Designation: Products covered by this evaluation include the following.

- Single 7 Timbercrest Perfection Shingle Siding
- Double 7 Timbercrest Perfection Shingle Siding

Code Conformance:

The polypropylene siding products have been evaluated for compliance with requirements specified in the Current Edition of the Florida Building Code including but not limited to the following and are acceptable for use when installed in accordance with manufacturer's installation instructions and this product evaluation.

- The water-resistive barrier shall be a minimum of one layer of No.15 asphalt felt, complying with ASTM D 226 for Type 1 felt or other approved materials.
- Polypropylene Siding Labeled as conforming to ASTM D7254
- Flame Spread index (FSI)
 - FSI tested in accordance with ASTM E84 or UL 723
 - Test specimen portions ahead of the flame front remain in position.
 - Test Results
 - Reference 2.a: FSI = 103. No sagging, delamination, shrinkage or fallout occurred.
- Polypropylene Siding - Wind Resistance
 - Tested (Reference 1.a) in accordance with ASTM D5206-13 per ASTM D7254-07
 - Safety Factor of 1.5 used.
 - Pressure Equalization Factor = 0.36 (Annex A1.2.1 of ASTM D7254-07).
 - Design Pressure = Test Pressure/(1.5 x 0.36)
 - See Product Design Pressure Evaluation below for pressures based on testing in Reference 1

Product Design Pressure Evaluation: Products covered by this evaluation include the following.

- Single 7 Timbercrest Perfection Shingle Siding
 - Nominal Thickness = 0.093"
 - Average Maximum Sustained Pressure = -70 psf
 - Design Pressure = $-70/(1.5 \times 0.36) = -129.6$ psf ← Compare this to Cladding Design Pressure
- Double 7 Timbercrest Perfection Shingle Siding
 - Nominal Thickness = 0.108"
 - Average Maximum Sustained Pressure in Testing = -33.3 psf



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- Design Pressure = $-33.3 / (1.5 \times 0.36) = -61.7$ psf ← Compare this to Cladding Design Pressure

Installation Drawings: KAY008, Rev. B, dated 9/2/23, signed and sealed by Robert J. Amoruso, P.E., *Kaycan Ltd, Single 7 & Double 7 Timbercrest Perfection Polypropylene Shingle Siding, Installation Anchorage Details*

Performance Testing Reports and Evaluations:

- 1) Wind Resistance Testing
 - a) Intertek Test Reports, testing to ASTM D5206-13, Standard Test Method for Windload Resistance of Rigid Plastic Siding
 - i) No. 102505313TOR-001, dated 4/13/16, Single 7 and Double 7 Timbercrest Perfection Straight Edge Shingle Siding
- 2) Materials Testing
 - a) Southwest Research Institute, Report No. 01.20693.15.015, dated 7/21/15, ASTM E84-14, Standard Test Method for Surface Burning Characteristics of Building Materials. Results of testing:
 - i) Flame Spread Index (FSI) = 103
 - ii) No sagging, delamination, shrinkage or fallout occurred.
- 3) Anchorage Installation Evaluation
 - a) PTC Report No. 2434, *Kaycan Ltd, Single 7 & Double 7 Timbercrest Perfection Polypropylene Shingle Siding, Installation Anchorage Evaluation*, dated 6/1/16, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752

Limitations & Conditions of Use:

- This product has not been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads.
 - 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.
- 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.



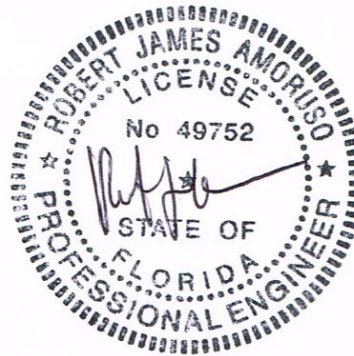
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Certificate of Independence per Product Approval Rule 61G20-3.009

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

