Product Evaluation Report

Product Manufacturer	Product Name, Model, Series and/or Description
UNILUX GmbH Nikolaus-Meeth-Str. 1 DE 54528 Salmtal, Germany	Series "DKZ" Aluminum Clad Wood Tilt & Turn Window

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

Compliance Method: 61G20-3.005(1)(a) – Certification Mark or Listing

Product Testing, Materials and Certification:

- National Certified Testing Laboratories Test Report No. NCTL-210-3940-02 and associated laboratory drawings. Signed and sealed by Gerard J Ferrara, P.E., FL No. 11985.
- Certification by Keystone Certification, Inc.
- Laminated Glazing Interlayers
  - Kuraray America SentryGlas Interlayer per the current Miami-Dade Notice of Acceptance (NOA) Component Approval
- Materials
  - Window Frame Material: Wood with specific gravity of 0.50.
  - Aluminum cladding and other components (6063-T5).

Product Installation Instructions:

- Drawing No. NL_0058, Rev. A, dated 9/30/17, signed and sealed by Robert J. Amoruso, P.E.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage has been verified by calculation prepared by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Window glazing verified using ASTM E1300-04e1.

Performance Testing:

- TAS 201-94
- TAS 202-94
- TAS 203-94, Large Missile Impact

Limitations & Conditions of Use:

- This product has been evaluated for use inside the HVHZ (High Velocity Hurricane Zone) and is Impact Resistance.
- Refer to Product Installation Instructions noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).
  - Overall dimensions and material/grade of main product components, accessories, etc.
  - Illustrated diagrams of the attachment of the product to the 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.

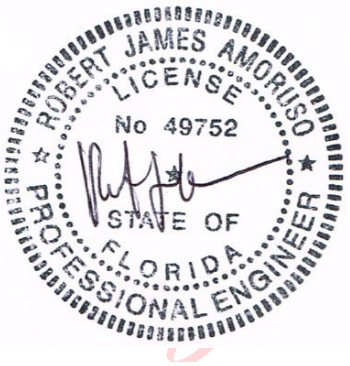
Robert J. Amoruso, P.E., 734 S Center St., Ormond Beach, FL 32174
rjaengpe@gmail.com | FBPE FL P.E. No. 49752

- 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.

Certificate of Independence per Product Approval Rule 61G20-3.009

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.

Robert J. Amoruso, P.E. does 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: 2023.08.09 17:12:16 -04'00'

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