Product Evaluation Report

Product Manufacturer	Product Name, Model, Series and/or Description
Kommerling USA, Inc. 3402 Stanwood Blvd. Huntsville, AL 35811	Single* & Double HADKZ 76 MD Tilt-Turn Window w/Transom & Fixed Mull Post, Vinyl Non-Impact Single* & Double HADKZ 76 MD Tilt-Turn Window w/Transom & Field Mull Post, Vinyl Non-Impact

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

- Single* & Double HADKZ 76 MD Tilt-Turn Window w/Transom & Fixed Mull Post, Vinyl Non-Impact
- Single* & Double HADKZ 76 MD Tilt-Turn Window w/Transom & Field Mull Post, Vinyl Non-Impact

(*) Single HADKZ 76 MD Tilt-Turn Window w/Transom enveloped by testing of Double HADKZ 76 MD Tilt-Turn Window w/Transom

Compliance Methods:

- Product Approval Rule 61G20-3.005(1)(a) – Certification Mark or Listing

Product Testing and Certification: National Certified Testing Laboratories, 8350 Parkline Blvd., Orlando, FL 32809

- Series Single & Double HADKZ 76 MD Tilt-Turn Window W/ Transom & Field Mull Post, Vinyl Non-Impact
  - NCTL-210-4176-5, dated 05/12/20 to AAMA/WDMA/CSA 101/I.S. 1/A440-2011
  - Certification – Keystone Certification, Inc.
    - No. 1129 -135, Double HADKZ 76 MD Vinyl Window with Transom and Fixed Mull Post (Clips) O/XX, Class CW-PG30 1829x2743 (72x108) - Type C, WTP=10.5
    - No. 1129 -136, Double HADKZ 76 MD Vinyl Window with Transom and Fixed Mull Post (Through Frame) O/XX, Class CW-PG30 1829x2743 (72x108) - Type C, WTP=10.5
    - No. 1129 -137, Double HADKZ 76 MD Vinyl Window with Transom and Fixed Mull Post (Clips) O/XX, Class LC-PG50 1829x2743 (72x108) - Type C, WTP=10.5
    - No. 1129 -138, Double HADKZ 76 MD Vinyl Window with Transom and Fixed Mull Post (Through Frame) O/XX, Class LC-PG50 1829x2743 (72x108) - Type C, WTP=10.5
- Series Single & Double HADKZ 76 MD Tilt-Turn Window W/ Transom & Fixed Mull Post, Vinyl Non-Impact
  - NCTL-210-4176-4, dated 05/12/20 to AAMA/WDMA/CSA 101/I.S. 1/A440-2011
  - Certification – Keystone Certification, Inc.
    - No. 1129 -139, Double HADKZ 76 MD Vinyl Window with Transom and Field Mullion (Clips) O/XX, Class CW-PG30 2032x2997 (80x118) - Type C, WTP=10.5
    - No. 1129 -140, Double HADKZ 76 MD Vinyl Window with Transom and Field Mullion (Through Frame) O/XX, Class CW-PG30 2032x2997 (80x118) - Type C, WTP=10.5
    - No. 1129 -141, Double HADKZ 76 MD Vinyl Window with Transom and Field Mullion (Clips) O/XX, Class LC-PG50 2032x2997 (80x118) - Type C, WTP=10.5
    - No. 1129 -142, Double HADKZ 76 MD Vinyl Window with Transom and Field Mullion (Through Frame) O/XX, Class LC-PG50 2032x2997 (80x118) - Type C, WTP=10.5

Product Installation Instructions:

- Kommerling USA, Inc. Series 76 MD Title/Turn Vinyl Window Non-Impact Anchorage Details, Installation Instructions Drawing No. NL-0138, dated 5/26/20, signed and sealed by Robert J. Amoruso, P.E.

Product Test Standards:

- AAMA/WDMA/CSA 101/I.S. 1/A440-2011
- AAMA/WDMA/CSA 101/I.S. 1/A440-2008

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 E1300-12AE1.

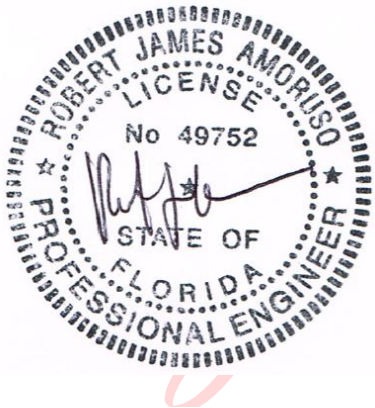
Limitations & Conditions of Use:

- This product has not been evaluated for use inside the HVHZ (High Velocity Hurricane Zone).
- This product is not Impact Resistance. An impact protective device meeting the requirements of the Florida Building Code shall be required in Wind Borne Debris Regions.
- 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.
- 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: 2023.08.11 16:24:18 -04'00'

Evaluated by:
Robert J. Amoruso, P.E.
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