R W B C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

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Florida Board of Professional Engineers Registry License No. 9813

Product Evaluation Report

Report No.: ***FL-16634.13***

Date: ***July 7, 2023***

Product Category	Sub Category	Manufacturer	Product Name
Exterior Doors	**Exterior Door Components**	**Endura Products** **8817 West Market Street** **Colfax, NC 27235** **Phone: 336.665.4052**	**Ultimate Hurricane Astragal** **Inswing / Outswing** **"Non-Impact"**

Scope: Product Evaluation report issued by R W Building Consultants, Inc. & Lyndon F. Schmidt, P.E. (System ID # 1998) for Endura Products, based on Rule Chapter No. 61G20-3, Method 1D of the State of Florida Product Approval, Dept. of Business & Professional Regulation.

RW Building Consultants and Lyndon F. Schmidt, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

Limitations:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. This product has been tested and is approved for use in the door panels as specified in this approval. Substitution into a similar product that possess a comparable current Florida Statewide product approval may be approved for use by the local Authority Having Jurisdiction.
6. Site conditions that deviate from the details of drawing FL-16634.13 require further engineering analysis by a licensed engineer or registered architect.
7. See drawing FL-16634.13 for size and design pressure limitations.

Supporting Documents:

1.

Test Report No.	Test Standard	Testing Laboratory	Signed by
CTLA 1872W	ASTM E 330-02	CTLA	Ramesh Patel, P.E.
CTLA 1872W-2	ASTM E 330-02	CTLA	Ramesh Patel, P.E.
NCTL 110-18046-1	ASTM E 330-02	National Certified Testing Lab.	Justin L. Bupp
ATI F1085.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	J. P. McDonald
ATI F2981.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	J. P. McDonald
ATI F7698.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	J. P. McDonald
ATI F7699.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	J. P. McDonald
ATI F7700.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	J. P. McDonald
ATI H1364.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	Trent Mason
ATI H1368.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	Trent Mason
ATI G2523.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	Trent Mason
ATI G2526.01-251-47	ASTM E 330-02	Architectural Testing, Inc.	Trent Mason

2.

Drawing No.	Prepared by	Signed & Sealed by
No. FL-16634.13	RW Building Consultants, Inc. (#9813)	Lyndon F. Schmidt, P.E.

3.

Calculations	Prepared by	Signed & Sealed by
Anchoring	RW Building Consultants, Inc. (#9813)	Lyndon F. Schmidt, P.E.
ASTM E 1300 Glass Load	RW Building Consultants, Inc. (#9813)	

4. **Quality Assurance**
Certificate of Participation issued by National Accreditation and Management Institute, certifying that Endura Products is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53.

Digitally signed by Lyndon F Schmidt
Date: 2023.07.27 08:50:39 -04'00'

LYNDON F. SCHMIDT, State of Florida, Professional Engineer, License No. 43409
This item has been digitally signed and sealed by **L. F. Schmidt** on **7-27-23**.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA