R W B C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197

Florida Board of Professional Engineers Registry License No. 9813

Product Evaluation Report

Report No.: ***FL-21852.19***

Date: ***July 1, 2023***

Product Category	Sub Category	Manufacturer	Product Name
Exterior Doors	**Swinging Exterior Door Assemblies**	**MasterGrain 16566 Highway 12 Midland, Ontario, Canada L4R 4L1 705.527.2939**	**Fiberglass Opaque Single Door Outswing HVHZ "Impact"**

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

R W 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 including 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 the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of drawing FL-21852.19 require further engineering analysis by a licensed engineer or registered architect.
7. This product meets water infiltration requirements for "HVHZ".
8. See drawing FL-21852.19 for size and design pressure limitations.

1. **Test Report No.**	**Test Standard**	**Testing Laboratory**	**Signed by**
TEL 01681902	TAS 201, 202 & 203-94	Testing Evaluation Lab.	Lyndon F. Schmidt, P.E.
TEL 01680148	ASTM D635-03	Testing Evaluation Lab.	Lyndon F. Schmidt, P.E.
TEL 01680149	ASTM D2843-99	Testing Evaluation Lab.	Lyndon F. Schmidt, P.E.
TEL 01680150	ASTM D1929-96	Testing Evaluation Lab.	Lyndon F. Schmidt, P.E.
FTL-16014	ASTM G155-13 / D638-14	Fenestration Testing Lab.	Idalmis Ortega, P.E.

2. **Drawing No.**	**Prepared by**	**Signed & Sealed by**
No. FL-21852.19	RW Building Consultants, Inc. (#9813)	Lyndon F. Schmidt, P.E.

3. **Calculations**	**Prepared by**	**Signed & Sealed by**
Product Anchoring	RW Building Consultants, Inc. (#9813)	Lyndon F. Schmidt, P.E.

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

Digitally signed by Lyndon F Schmidt
Date: 2023.07.03 10:20:20 -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 **7-3-23**.
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