



# R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

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Florida Board of Professional Engineers Certificate of Authorization No. 9813

## Product Evaluation Report

Report No.: FL-7964.2 R2  
Date: January 5, 2009  
Product Category: Exterior Doors  
Product sub-category: Swinging Exterior Door Assemblies  
Product Name: Premium Opaque Fiberglass Door  
Outswing  
"Impact"  
Manufacturer: Trinity Glass International  
4621 192<sup>nd</sup> Street East  
Tacoma, WA 98446  
Phone 253.875.7300

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. (System ID # 1998) for Trinity Glass International. based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

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.

This product has been evaluated for use in locations adhering to the Florida Building Code (2007 Edition).

See Drawing No. FL-7964.2 prepared by R W Building Consultants, Inc. and signed and sealed by Lyndon F. Schmidt, P.E. (FL # 43409) for specific use parameters.

Lyndon F. Schmidt, P.E.  
FL No. 43409  
January 5, 2009

## Limitations

1. This product has been evaluated and is in compliance with the 2007 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 2007 FBC and does not require an impact resistant covering.
4. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2007 FBC and does not need to be protected with an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996.
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-7964.2 require further engineering analysis by a licensed engineer or registered architect.
7. This product meets water infiltration requirements for "HVHZ".
8. See drawing FL-7964.2 for size and design pressure limitations.



Lyndon F. Schmidt, P.E.  
FL No. 43409  
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## Supporting Documents

### A Drawing

1. Drawing No. FL-7964.2 prepared by R W Building Consultants, Inc. (Florida Board of Professional Engineers Certificate of Authorization No. 9813), signed and sealed by Wendell W. Haney, P.E.

### B Tests

1. Materials (Fiberglass Skins) approval number 05-1206.01 issued by Miami-Dade BCCO.
2. Materials (PVB Interlayer by DuPont) approval number 04-0816.02 issued by Miami-Dade BCCO.
3. Materials (Polyurethane Foam) testing per ASTM D1929-96 (2001) as performed by ETC Laboratories and reported in test report ETC 05-781-17122.0, signed by Joseph Labora Doldan, P.E.
4. Materials (Polyurethane Foam) testing per ASTM E84-05 (ASTM E-84-05 is equivalent to ASTM E84-04 referenced in the 2007 FBC as evidenced by Evaluation Report EQ-E84-05-04 prepared, signed and sealed by Lyndon F. Schmidt, P.E.) as performed by ETC Laboratories and reported in test report ETC 05-781-17122.0, signed by Joseph Labora Doldan, P.E.
5. Testing per TAS 201-94, 202-94 & TAS 203-94 as performed by Testing Evaluation Laboratories, Inc. and reported in test report TEL 06-0918-2, signed by Wendell W. Haney, P.E.
6. Testing per TAS 201-94, 202-94 & TAS 203-94 as performed by Testing Evaluation Laboratories, Inc. and reported in test report TEL 01370079, signed by Lyndon F. Schmidt, P.E.

### C Calculations

1. Product anchoring for tested specimens is in accordance with manufacturer's published recommendations as substantiated by tested specimens reported in test reports TEL 06-0918-2 and TEL 01370079. Additional product anchor analysis for loading conditions prepared, signed and sealed by Lyndon F. Schmidt, P.E.
2. Buck anchor analysis for loading conditions prepared, signed and sealed by Lyndon F. Schmidt, P.E.
3. Glass load capacity calculations prepared, signed and sealed by Lyndon F. Schmidt, P.E.

### D Other

1. Certificate of Participation issued by National Accreditation and Management Institute, certifying that Trinity Glass International is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53.



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