

# 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 2983.1  
Date: December 14, 2005  
Product Category: Exterior Doors  
Product sub-category: Swinging  
Product Name: ODL / Western Reflections Impact Glazing  
With 8'0 Masonite Door  
Manufacturer: ODL, Inc.  
215 East Roosevelt Avenue  
Zeeland, MI 49484  
Phone: 616.772.9111 Facsimile: 616.772.9110

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Wendell W. Haney, P.E. (System ID # 1993) for ODL, Inc. based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

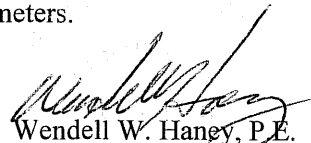
RW Building Consultants and Wendell W. Haney, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Florida Building Code (2004 Edition) and where pressure requirements, as determined by Chapter 16 of The Florida Building Code, do not exceed the following design pressures:

### Design Pressure Rating:

Maximum Design Pressure Rating      Positive 40.0 PSF      Negative 40.0 PSF  
(See Limitations for size restrictions)

See Drawing No.: FL 313 prepared by R W Building Consultants, Inc. and signed and sealed by Wendell W. Haney, P.E. (FL # 54158) for specific use parameters.

  
Wendell W. Haney, P.E.  
FL No. 54158  
December 14, 2005

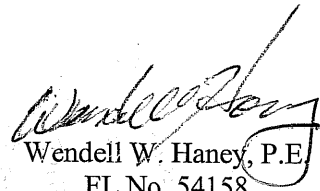
## Limitations

1. The ODL / Western Reflection Impact Glazing with Masonite Door has been evaluated and meets the requirements for use within the State of Florida excluding the "High Velocity Hurricane Zone".
2. When used in wind borne debris regions, this product complies with Section 1609.1.4 as an impact resistant product and does not require protection from an impact resistant covering.
3. Size Limitations:

<u>Configurations</u>		<u>MAX. Frame Width</u>	<u>MAX. Frame Height</u>
Single	X	37.5"	98.0"
Single w/ Sidelite	OX or XO	53.0"	98.0"
Single w/ Sidelites	OXO	68.5"	98.0"
Double	XX	74.0"	98.0"
Double w/ Sidelites	OXXO	149.0"	98.0"

4. The Design Pressure Rating for the various size units are as follows:

Design Pressure (PSF)				
Description	In-Swing		Out-Swing	
	Positive	Negative	Positive	Negative
All Configurations Shown	+40.00	-40.00	+40.00	-40.00

  
 Wendell W. Haney, P.E.  
 FL No. 54158  
 December 14, 2005

## Supporting Documents

### A Drawing

1. Drawing No. FL-313 titled ODL / Western Reflection OS/IS 8'0 Impact Glass Door Single or Double w/ or w/o Sidelites Utilizing the Masonite Steel Edge Door, 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 Test

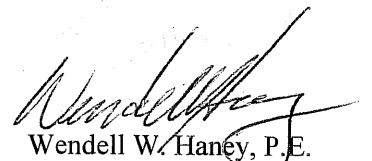
1. Testing per TAS 201-94, TAS 202-94, & TAS 203-94, as performed by Certified Testing Laboratories, Inc. reported in test report number CTLA-1042W-1, dated March 21, 2003, signed by Ramesh Patel, P.E.
2. Testing per ASTM E1886-02 and ASTM E1996-02, as performed by Testing Evaluation Laboratories, Inc. reported in test report number TEL-05-1008-1, dated October 08, 2005, signed by Wendell W. Haney, P.E.

### C Calculations

1. Product anchoring is in accordance with manufacturer's published recommendations as substantiated by testing performed by Certified Testing Laboratories, Inc. reported in test report number CTLA-1042W-1 and TEL 05-1008-1.
2. Buck anchor analysis for loading conditions, prepared, signed and sealed by Wendell W. Haney, P.E.
3. Glass Load Resistance Report ASTM E1300-02 prepared by Wendell W. Haney, P.E.

### D Other

Certificate of Participation issued by National Accreditation & Management Institute, Inc., certifying that ODL, Inc. is manufacturing products within a quality assurance program.

  
Wendell W. Haney, P.E.  
FL No. 54158  
December 14, 2005