

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197 Facsimile 813.754.9989

Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FL 5891.5

Date: November 18, 2005

Product Category: Exterior Doors

Product sub-category: Swinging

Product Name: "Smooth Star" Fiberglass Door "Impact"
Single – In-swing or Out-swing

Manufacturer: Therma-Tru Corporation
118 Industrial Drive
Edgerton, OH 43517
Phone: 419.295.1740

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Wendell W. Haney, P.E. (System ID # 1993) for Therma-Tru Corporation 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.

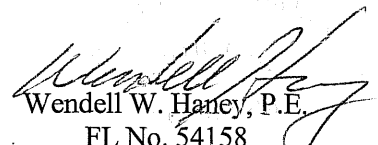
This product has been evaluated for use in locations adhering to the Florida Building Code (2004 Edition) and where pressure requirements, as determined by Chapter 16 of The Florida Building Code, do not exceed the following design pressures:

Design Pressure Rating:

Maximum Design Pressure Rating Positive 67.0 PSF Negative 67.0 PSF

(See Limitations for size restrictions)

See Drawing No.: FL 673 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
November 18, 2005

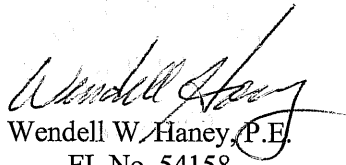
Limitations

1. The Therma-Tru Corporation 3'0 x 8'0" "Smooth Star" Fiberglass Single "Impact", In-swing or Out-swing Door has been evaluated and meets the requirements for use within the State of Florida excluding the "High Velocity Hurricane Zone".
2. This product is not to be used in "Essential Facilities" as defined in ASTM E1996-02 section 6.2.1.1.
3. 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.
4. Size Limitations:

<u>Configurations</u>	<u>MAX. Frame Width</u>	<u>MAX. Frame Height</u>
Single X	37.59"	97.92"

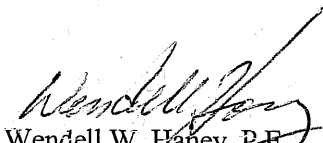
5. The Design Pressure Rating (PSF) for the Single units are as follows:

Swing	Overall Frame Dimensions	Design Pressure (PSF)	
		Positive	Negative
In-Swing	37.59" x 97.92"	+ 67.0 PSF	- 67.0 PSF
Out-Swing	37.59" x 96.42"	+ 67.0 PSF	- 67.0 PSF


 Wendell W. Haney, P.E.
 FL No. 54158
 November 18, 2005

Supporting Documents

- A Drawing
1. Drawing No. FL 673 titled 3'0 x 8'0 "Smooth Star" Fiberglass Single Door In-swing / Out-swing "Impact" 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 Performed
1. Testing per TAS 202-94 as performed by ETC Laboratories, Inc. and reported in test report number 01-741-1070.0, dated August 6, 2001, signed by Wendell W. Haney, P.E.
 2. Testing per SSTD 12-99 as performed by CTL, Inc. and reported in test report number CTLA 980W-1, dated November 4, 2002 signed by Ramesh Patel, P.E.
- C Calculations
1. Product anchoring is in accordance with manufacturer's published recommendations as substantiated by testing performed by ETC Laboratories, Inc. and reported in test report number 01-741-10701.0.
 2. Buck anchor analysis for loading conditions, prepared, signed and sealed by Wendell W. Haney, P.E.
- D Other
1. Certificate of Participation issued by National Accreditation and Management Institute, Inc. certifying that Therma-Tru Corporation is manufacturing products within a quality assurance program.


Wendell W. Haney, P.E.
FL No. 54158
November 18, 2005