

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 7586.5

Date: September 22, 2006

Product Category: Doors

Product sub-category: Swinging Exterior Door Assemblies

Product Name: "Profiles"
Glazed Steel Double Door W/Sidelites Inswing / Outswing
"Impact"

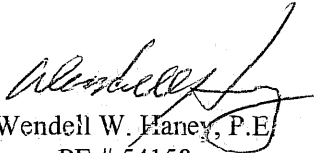
Manufacturer: THERMA-TRU CORPORATION
118 Industrial Drive
Edgerton, OH 43517
Phone - 419-298-1740

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).

See Drawing No.: FL 1161 prepared by R W Building Consultants, Inc. and signed and sealed by Wendell W. Haney, P.E. (PE # 54158) for specific use parameters.



Wendell W. Haney, P.E.
PE # 54158
September 22, 2006

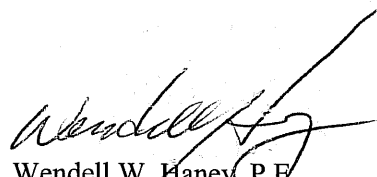
Limitations

1. The “Profiles” Glazed Steel Double Door W/Sidelites Inswing/Outswing “Impact” has been evaluated and meets the requirements for use within the State of Florida including the “High Velocity Hurricane Zone”.
2. When used in the “HVHZ” this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
3. When used in areas outside the “HVHZ” requiring wind-borne debris protection this product complies with Section 1609.14 of the Florida Building Code as an impact resistant product and does not require an impact resistant covering. This product meets missile level “D” and includes wind zone 4 as defined in ASTM E1996.

4. Size Limitations:

| <u>Configurations</u> | | <u>MAX. Width</u> | <u>MAX. Height</u> |
|-----------------------|------|-------------------|--------------------|
| Single | OXXO | 151.5” | 98.00” |

5. See Drawing #FL 1161 for Design Pressure Ratings.



Wendell W. Haney, P.E.
PE # 54158
September 22, 2006

Supporting Documents

A Drawing

1. Drawing No. FL-1161 titled "Profiles" Glazed Steel Double Door W/Sidelites, Inswing / Outswing, "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 Test

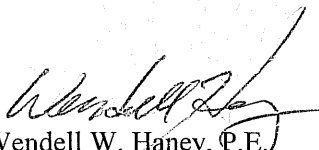
1. Testing per TAS 201-94, TAS 202-94 and TAS 203-94 as performed by Testing Evaluation Laboratories, Inc. and reported in test report number TEL 06-0831-2, dated August 31, 2006, signed by Wendell W. Haney, P.E.
2. Test report on "Standard Test Method for Surface Burning Characteristics of Building Materials", per ASTM E84-00a (ASTM E84-00a is equivalent to ASTM E84-95) for flame spread and smoke development of Therma-Tru Corporation Insulated Steel Door Panel, conducted by Omega Point Laboratories, Test Report No. 15427-107362, dated August 28, 2000.
- 2a. Foam plastics testing per ASTM D1929-96(2000)e01, "Standard Test Method for Determining Ignition Temperature of Plastics", as performed by Architectural Testing Inc. and reported in test report number 67508.01-106-18, dated August 30, 2006, signed by Joseph A. Reed, P.E.
3. Plastics testing (Solutia Interlayer) in accordance with the "High Velocity Hurricane Zone" substantiated by Issuance of Miami-Dade Notice of Acceptance 03-0421-01, expiring April 14, 2008.

C Calculations

1. Product Anchoring is the more conservative between manufacturer's published recommendations as substantiated by tested specimens reported in test report numbers TEL 06-0831-2 or anchor analysis for loading conditions, prepared, signed and sealed by Wendell W. Haney, P.E.
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 Therma-Tru Corporation is manufacturing products within a quality assurance program.



Wendell W. Haney, P.E.
PE # 54158
August 17, 2006