

# 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

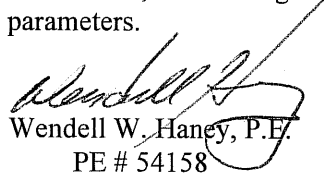
Report No.: FL 7728.1  
Date: November 14, 2006  
Product Category: Exterior Doors  
Product sub-category: Swinging Exterior Door Assemblies  
Product Name: "Premium Series" & "Construction Series"  
Glazed Steel Door Inswing / Outswing  
"Impact"  
Manufacturer: THERMA-TRU CORPORATION  
118 Industrial 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 3004 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  
November 14, 2006

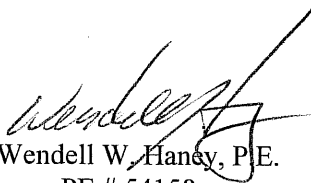
# Limitations

1. The "Premium Series" & "Construction Series" Glazed Steel Door 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 X	37.75"	82.0"

5. See Drawing #FL 3004 for Design Pressure Ratings.



Wendell W. Hansy, P.E.  
PE # 54158  
November 14, 2006

# Supporting Documents

## A Drawing

1. Drawing No. FL-3004 titled "Premium Series" & "Construction Series" Glazed Steel Door, 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 Tests

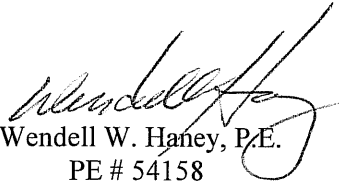
1. Testing per TAS 201-94, TAS 202-94 and TAS 203-94 as performed by Testing Evaluation Laboratories, Inc. and reported in test report number TEL 06-0717-1, dated July 17, 2006, signed by Wendell W. Haney, P.E.
2. Test report on "Standard Test Method for Surface Burning Characteristics of Building Materials", 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 number TEL 06-0717-1 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  
November 14, 2006