Engineering Evaluation Report

Joshua Royce, P.E.
3 Indian Springs Rd
Red Lion, PA 17356

Report: 100480

Manufacturer: Chem-Pruf Door Co., LTD
P.O. Box 4560, 5224 FM 802
Brownsville, TX 78521

Product: Fiberglass 4080 Flush Fire Inswing Door

Description of Product:
Head, jambs and panels made of fiberglass reinforced polymer (FRP) with the sill extruded from 6063-T6 aluminum. Frame corners are coped and butted at the head/jamb connection. Each jamb is mechanically fastened to the head using two #10 x 2-1/2" SS FHPS.

Submitted Technical Documentation:

1. Test Report T443-0402-08 dated 04/22/2010 signed and sealed by Vinu Abraham, P.E. (FL P.E. 53820) of HTL Laboratories located in Lubbock, TX.
   TAS 201-94: Passed Large Missile Impact
   TAS 202-94: Design Pressure: +/- 40.00 psf
   Passed Forced Entry
   Air Infiltration: 6.24 psf
   Water Infiltration: 0.0 psf
   TAS 203-94: Design Pressure: +/- 40.00 psf
2. Test Report ETC-08-1042-20958.0 dated 06/09/2009 signed and sealed by Joseph Labora Doldan, P.E. (FL P.E. 42929) of ETC Laboratories located in Rochester, NY.
   ASTM D2843: Passed Smoke Density (68.7%)
   ASTM D635: Passed Rate of Burn (C1)
   ASTM D1929: Passed Self Ignition Temperature (780° F)
   ASTM D638: Passed % Difference in Tensile Strength (5%)
3. Installation Drawings report number 100480D signed and sealed by Joshua Royce P.E.
4. Anchor Calculation report number 100480A signed and sealed by Joshua Royce P.E.

Door Hardware: Door hardware consists of the following:

Door Hardware:

Quantity	Description	Manufacturer / Material
1	Mortise Lock System	Sargent 8200 Lever Lock
1	Mortise Lock Front Plate	Sargent 8200 S
1	Threshold	Chem-Pruf Saddle Type
4	Hinges – 4-1/2" x 4-1/2"	McKinney Series T2714

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Limitations of Use:

1. Maximum product design pressure of +/- 40 psf.
2. Maximum overall single door size of 52-1/4" wide by 97-7/8" high.
3. Maximum door panel size of 48" wide by 96" high.
4. Rated for use in the High Velocity Hurricane Zone (HVHZ).
5. Product is impact resistant and will not require the use of an impact protection system if installed in the Wind Borne Debris Region.
6. Not approved for use where water infiltration resistance is required by the door, unless units are installed in a non-habitable area where the unit and the area are designed to accept water infiltration. Units shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of the canopy or overhang to the sill is less than 45 degrees.
7. Units must be installed as per the installation documented in drawing 100480D.
8. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.

Compliance:

The above listed products have been shown to demonstrate compliance with the 2010 Florida Building Code and with the Florida Department of Community Affairs for Statewide Product Approval as per Rule 9N-3.005 method 1(d).

Certificate of Independence:

In accordance with Rule 9N-3.009, I do not have, nor do I ever intend to acquire, any financial interest in any manufacturing company associated with this evaluation report. I also do not have any financial interest in the manufacturing company or any company associated with the manufacturing company.

JOSHUA M. ROYCE LICENSE No. 68180 STATE OF FLORIDA PROFESSIONAL ENGINEER

Secure Electronic Seal
For Electronic Submissions

Joshua Royce, P.E.
Dated: 04/02/2012

Digitally Signed by: Josh Royce
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