



TENGINEERING EXPRESS® PRODUCT EVALUATION REPORT

December 21, 2020

Application Number: FL 16355.2-R3
EX Project Number: 20-34870

Product Manufacturer: Ceco Door Products
Division of ASSA ABLOY Door Group, Inc.

Manufacturer Address: 9159 Telecom Drive
Milan, TN 38358

Product Name & Description: Flush Single Commercial Steel Doors
Large Missile Impact Resistant

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-16 (ASD) and Florida Building Code Seventh Edition (2020) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX Installation Drawing #20-34870 titled "Ceco Flush Single Doors", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 13.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with TAS 202 test standards per test report(s) #57807.01-201-18, 51287.05-201-18, 60259.03-201-18, 60259.02-201-18, 67011.01-201-18, 98743.01-201-44, 02-44412.01, B0127.01-201-18, B0126.01-201-18, B0127.01-201-18, A4870.01-201-18, A4872.01-201-18, 80333.01-201-18 signed and sealed by Joseph Reed, P.E; C0757.01-201-18, C5148.01-201-18 signed and sealed by Shawn Collins, P.E; A2211.01-201-18, A0408.01-201-18, 70601.01-201-18, A0509.01-201-18, 69698.01-201-44, signed and sealed by Eric J Schoenthaler and Architectural Testing Inc. (ATI), #3037990-2 signed and sealed Leo Schlimge, P.E and by Intertek Testing Services (ITS), 0096-0121-02, 0096-1102-01 signed and sealed by Vinu Abraham, P.E, and 0096-0709-96 signed and sealed by Timothy Marshall by Hurricane Test laboratory (HTL).

Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 & 203 test standards per test report(s) 57807.01-201-18, 51287.05-201-18, 60259.03-201-18, 60259.02-201-18, 67011.01-201-18, 98743.01-201-44, 02-44412.01, C0757.01-201-18, B0127.01-201-18, B0126.01-201-18, B0127.01-201-18, A4872.01-201-18, A2211.01-201-18, A4870.01-201-18, A0408.01-201-18, 80333.01-201-18, 70601.01-201-18, A0509.01-201-18, 69698.01-201-44 by Architectural Testing Inc. (ATI), #3037990-2 by Intertek Testing Services (ITS), 0096-0121-02, 0096-1102-01, and 0096-0709-96 by Hurricane Test laboratory (HTL).

Ceco Door Products - FL 16355.2-R3 - Flush Single Commercial Steel Doors

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Anchor Spacing
2. Maximum Allowable Size/Pressure Combinations
3. Anchor Capacity

No 33% increase in allowable stress has been used in the design of this product.

Impact Resistance:

Large Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

This product has been designed to resist wind loads as indicated on its respective Product Evaluation Document (i.e. engineering document).

Installation

The product listed above shall be installed in strict compliance with the Product Evaluation Document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering document).

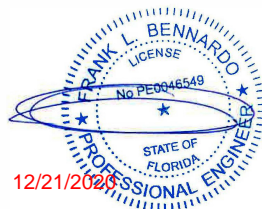
Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Product Evaluation Document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Product Evaluation Document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,



Frank Bennardo, PE
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