

John E. Scates, Professional Engineer

October 2, 2023

Carriage House Door Co.
1571 E Main St
Old Fort, NC 28762

Re: FL 16525
Evaluation Report for Swing Wood Door

To Whom It May Concern:

At the request of Carriage House Door Co., I have reviewed the drawings and tests listed below. These tests were conducted at American Test Lab, Inc., an independent laboratory. The pressures listed on the drawing is a direct result of this test. I have concluded that the construction shown on these drawings complies with the structural requirements of the 8th Edition (2023) of the Florida Building Code.

The tested door was secured to wood. The primary purpose of this Evaluation Report is to certify a method to secure the door directly to concrete. Otherwise, this product is being offered "as tested" with no evaluation needed.

Drawing

Swing-10-8-40-45 RevA, 10x8 Swinging Wood Door, 2-panels, design +40/-45 psf

Test Reports

All testing complied with ANSI/DASMA 108-17 and ANSI/DASMA 115-17.

Test Report

American Test Lab ATLNC 0121.01-13R with Addendum 2 updated on 12/15/2020
(Tested dates 01/21/13 – 01/24/13)

Located at 1656 Calvert Rd, Brevard, NC

Testing was conducted in accordance with ANSI/DASMA 108-2005 (and ASTM E330-02) for static pressures, and per ANSI/DASMA 115-2005 (and ASTM E1886-05/E1996-09) for impact/cycling.

Model Description

This is a 2-panel swinging wood door. The door is mounted on hinges within its own factory-supplied wood frame. This wood frame is then secured to the building jambs in a between-the-jamb mounting configuration.

Construction details of the panels are illustrated in the Drawing and discussed in the Test Report.

Jamb Attachment

In all instances, two “cane bolts” are required at mid-span of door opening, at the floor and at the header, as shown on the drawing.

WOOD

The door was tested by mounting the Frame to wood jambs as detailed in the Test Report Addendum dated 12/15/2020. Mounting to wood requirements:

Frame to be attached to wood jambs (Southern Pine) with #12 x 2.5” long Pan Head screws located:

- 5-inches from the top

- 5-inches from the bottom

- and on 15-inch spacing (max) between the floor and header.

Screws to have a 1-3/4-inch edge distance on the mounting surface.

CONCRETE

This engineer has determined that the door may also be mounted to a concrete wall in this manner using Elco 1/4” Crete-Flex SS4 Masonry Screws in place of the wood screws, based on Dade NOA 17-1227.18

- Concrete 3350 psi min.

- Edge Dist 1.75-inch min.

- Embed 1.75-inch min.

- Min Spacing 6-inch min.

Screw Locations to be same as the as-tested wood screws listed above.

Limitations

The drawing cited above is an explicit part of this evaluation report. The text of this report does not attempt to address all design details but relies upon the illustrations and text of the drawing and instructions as well. Furthermore, this evaluation relies on the reported test results and door construction as documented by American Test Lab, and addresses features only related to windload construction details.

The maximum opening width approved with this report is 10' wide nominal.

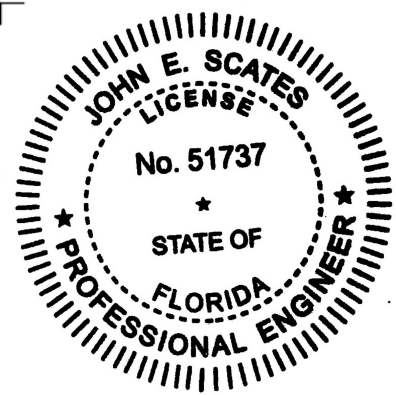
The maximum opening height approved with this report is 8' tall nominal.

This door has been tested for Static and Impact/Cyclic conditions.

This product has not been evaluated for compliance with the Florida High Velocity Hurricane Zone (HVHZ).

Digitally signed by John E Scates
Date: 2023.10.02 11:07:23 -05'00'

John E. Scates, P.E.
Florida PE # 51737



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