

June 23, 2025

I have evaluated the wind load door designs as shown on the drawings listed below. I have reviewed the test reports, which were generated by accredited independent laboratories as required by the relevant Florida Administrative Rule, the engineering rational analysis, and the product drawings. The test reports are listed below. Assembly testing was conducted by American Test Lab North Carolina. Component testing was conducted by HETI and ETC.

For the doors listed in Tables 1 through 2, Static Pressure Tests were conducted in accordance with TAS 202-1994, ASTM-E330-2002 and ANSI/DASMA 108-2005. Missile Impact and Cyclic Pressure Tests were conducted in accordance with TAS 201-1994 and TAS 203-1994 and ASTM E1886-2005 and ASTM E1996-2009 and ANSI/DASMA 115-2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in Tables 1 through 2 are in compliance with these High Velocity Hurricane Zone test requirements of the Florida Building Code and therefore are qualified as impact-resistant assemblies (large missile impact).

TABLE 1: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F151/3/6:

DRAWING	MAX. WIDTH	MAX. HEIGHT	DESIGN LOAD (PSF)	SUB-ITEM
101348-A-Rev13	9'0"	16'0"	+38/-44	16107.24
104710-A-Rev04	16'2"	16'0"	+36/-42	16107.3
104761-Rev05	18'2"	16'0"	+36/-42	16107.11
101702-Rev13	9'0"	16'0"	+42/-48	16107.46

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F143:

DRAWING	MAX. WIDTH	MAX. HEIGHT	DESIGN LOAD (PSF)	SUB-ITEM
104753-Rev03	18'2"	16'0"	+38/-42	16107.5
103547-Rev05	9'0"	16'0"	+48/-54	16107.53
103287-Rev06	9'0"	16'0"	+54/-62	16107.54
104754-Rev03	16'2"	16'0"	+46/-50	16107.15

The following test reports are based on testing conducted by Clopay Corporation at their Mason testing facility (accredited by ANAB for ASTM E330 and ANSI/DASMA 108 testing): ATL 0107.01-13 (2/20/13), ATL 0813.01-12 (10/29/12), ATL 01212.01-22 (1/9/23), ATL 0103.02-23 (2/28/23), and ATL 0129.01-19 (2/14/19), ATL 0104.01-22 (8/8/22), ATL 0622.01-15 (7/13/15) and ATL 1212.02-22 (1/9/23).

Product Description for doors with MPC PAN-2F151 or PAN-2F153 or PAN-2F156:

These doors consist of 2" thick steel pan sections with min. 25 ga. (0.019") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 98, 73, 75, 1500, 190, 4RST, 4F, 4RSF, 6RST, 6RSF, 48, 48B, 42, 42B, 55, 55S, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F143:

These doors consist of 2" thick steel pan sections with min. 24 ga. (0.022") skins. The steel skin is at least G40 DDS per ASTM A653. Sections may have 1-5/16" insulation captured in the cavity of the pan section. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 94V, 98, 4RST, 4F, 48, 48B. Not all models may be shown on a given drawing.

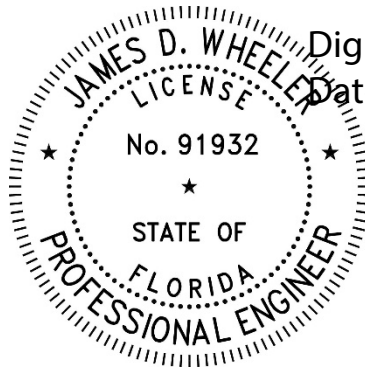
Limitations:

The drawing(s) cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details and relies on the illustrations and text of these drawings as well.

Jambs, lintels, sills or other structural elements required to prepare openings are not covered. The design of the supporting structural elements shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the drawing(s) referenced above.

Installation requirements per the relevant Florida Administrative Rule, including attachments, are detailed on the drawing(s) listed above. Installation must be in accordance with manufacturer's installation instructions and must be as shown on the drawing(s) listed above. The manufacturer's licensed design professional listed on the drawing(s) has reviewed the attachment details and installation requirements.

Signature:



Digitally signed by Jim Wheeler
Date: 2025.06.23 20:32:09 -04'00'

Jim Wheeler, P. E.
Florida P. E. No. 91932