

February 20, 2014 (Revised 10/17/25)

Evaluation Report for Clopay Corporation Sectional Garage Doors: Commercial Products

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 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 and 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 and 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) C-DSIU-1D477:

104039-A-Rev06, max. door size 10'2" x 18'0"; +37/-44 PSF (design load)
104861-A-Rev01, max. door size 14'2" x 18'0"; +36/-40 PSF (design load)
104801-A-Rev02, max. door size 16'2" x 18'0"; +37/-42 PSF (design load)
104826-A-Rev02, max. door size 18'2" x 18'0"; +36/-40 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) C-PAN-1E448:

102445-A-Rev10, max. door size 10'2" x 18'0"; +37/-44 PSF (design load)
104858-Rev02, max. door size 16'2" x 18'0"; +38/-42 PSF (design load)
104813-Rev01, max. door size 12'2" x 18'0"; +52/-58 PSF (design load)

For the doors in Tables 3 and 4, Static Pressure Tests were conducted in accordance with ASTM-E330-2002 and ANSI/DASMA 108-2005. 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 3 and 4 are in compliance with these test requirements of the Florida Building Code.

TABLE 3: Drawings for doors with Manufacturing Product Code (MPC) C-DSIU-1D477:

104039-B-Rev06, max. door size 10'2" x 18'0"; +37/-44 PSF (design load)
104861-B-Rev01, max. door size 14'2" x 18'0"; +36/-40 PSF (design load)
104801-B-Rev02, max. door size 16'2" x 18'0"; +37/-42 PSF (design load)
104826-B-Rev02, max. door size 18'2" x 18'0"; +36/-40 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) C-PAN-1E448: 102445-B-Rev10, max. door size 10'2" x 18'0"; +37/-42 PSF (design load)

Test Reports:

The following test reports are based on testing conducted by American Test Lab at their North Carolina Facility: 0709.01-13 (2/5/14), 0513.01-13 (5/30/13), 0610.01-13 (1/14/14), 0814.01-13 (2/5/14), 0203.01-14 (2/5/14), 0604.01-13 (6/6/13), 0916.01-13 (9/18/13), 0902.01-25 (10/15/25).

Product Description for doors with MPC C-DSIU-1D477:

These doors consist of min. 1-3/4" double-skin insulated sections with a foamed-in-place urethane core laminated to both skins. Both inner and outer skins are min. 27 ga. (0.016") G40 CS-B per ASTM A653. The maximum section height is 24". These doors may have optional Impact-Resistant Glazing (Aluminum). Optional Impact-Resistant Glazing is an aluminum front frame and a separate polycarbonate glazing. The following models are at least structurally equivalent to the tested door: 3717, EX3717, EX3717L, EX3717N, C7X17, 3718, EX3717, EX3718L, EX3718N, C7X18, 3720, EX3720, EX3720L, EX3720N, C7X20, 240U, 3722, EX3722, EX3722L, EX3722N, C0X22, 3724, EX3724, EX3724L, EX3724N, C7X24, 244U, 3730. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-PAN-1E448:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 CS-B per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted in the pan cavity. The following models are at least structurally equivalent to the tested door: 524, 520, 224, C4ST, C0ST, 524S, 520S, 524V, 224S, C4SS, C0SS, C4SV. Not all models may be shown on a given drawing.

Impact Resistant Glazing (Aluminum):

The optional impact resistant glazing consists of an aluminum front frame and aluminum interior retainer encasing a polycarbonate glazing that is an approved C1 plastic in accordance with testing required by FBC-B 2606 and complies with FBC-B 2615 testing requirements. Approved polycarbonate materials are Sabic IP Lexan 9034 (versions also approved: MR10, XL-10) and Plaskolite TUFFAK AR (TUFFAK versions also approved: SL, GP). Approval based on review of NOA 24-1023.03 (Sabic) and NOA 24-0205.09 (Plaskolite) and manufacturer's product datasheets.

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.

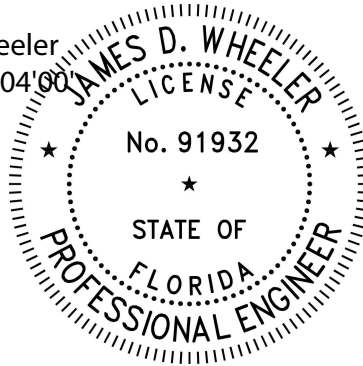
Installation requirements per the relevant Florida Administrative Rule, including attachments, are detailed on the drawing(s) listed above. Installation must be in accordance with manufacturer's installation instructions and must be as shown on the drawing(s) listed above. The manufacturer's licensed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

Signature:

Digitally signed by Jim Wheeler

Date: 2025.10.17 10:32:13 -04'00'

James D Wheeler, P. E.
Florida P. E. No. 91932



This document has been digitally signed and is valid without a physical signature. Third-party verification embedded in the PDF can attest that the document has not been changed since it was signed. The printed document is just a copy and cannot be verified.