

April 5, 2017 (Revised 8/6/2020)

Evaluation Report for Clopay Corporation Sectional Garage Doors: Various Products
Reinforced with T-struts

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 CBPC-ATC.

For the doors listed in Tables 1 through 4, Static Pressure Tests were conducted in accordance with ASTM-E330-2002 and/or 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 sectional garage door designs listed below in Tables 1 through 4 are in compliance with these test requirements of the Florida Building Code.

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

105032-Rev01, max. door size	16'2" x 18'0";	+25/-25 PSF (design load)
105077-Rev02, max. door size	20'2" x 18'0";	+25/-25 PSF (design load)
105196-Rev02, max. door size	24'2" x 18'0";	+25/-25 PSF (design load)
105033-Rev02, max. door size	16'2" x 18'0";	+32/-32 PSF (design load)
105064-Rev02, max. door size	22'2" x 18'0";	+30/-30 PSF (design load)

TABLE 2: Drawings for doors with Manufacturing Product Code (MPC) C-DSIE-1F447:

105198-Rev02, max. door size	20'2" x 18'0";	+25/-28 PSF (design load)
105197-Rev02, max. door size	24'2" x 18'0";	+25/-25 PSF (design load)
105054-Rev02, max. door size	22'2" x 18'0";	+30/-30 PSF (design load)

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

105087-Rev02, max. door size	20'2" x 18'0";	+25/-28 PSF (design load)
105225-Rev02, max. door size	24'2" x 18'0";	+25/-25 PSF (design load)
105073-Rev02, max. door size	22'2" x 18'0";	+30/-30 PSF (design load)

TABLE 4: Drawings for doors with Manufacturing Product Code (MPC) C-AL-1F499:

105199-Rev02, max. door size	24'2" x 18'0";	+25/-25 PSF (design load)
105043-Rev02, max. door size	16'2" x 18'0";	+32/-32 PSF (design load)
105088-Rev02, max. door size	20'2" x 18'0";	+30/-30 PSF (design load)
105059-Rev02, max. door size	22'2" x 18'0";	+30/-30 PSF (design load)
105063-Rev02, max. door size	22'2" x 18'0";	+33/-34 PSF (design load)

Test Reports:

The following test reports are based on testing conducted by Clopay Building Products at their Mason testing facility (accredited by L-A-B for ASTM E330 and ANSI/DASMA 108 testing): ATC 15-012 (2/10/2017), ATC 15-017 (2/10/2017), ATC 15-021 (2/10/2017), ATC 15-022 (2/10/2017), ATC 15-023 (2/10/2017), ATC 15-024 (2/10/2017), ATC 15-025 (2/10/2017), ATC 15-026 (2/10/2017), ATC 15-027 (2/10/2017), ATC 16-002 (2/10/2017), ATC 16-013 (2/10/2017).

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, 524V, 524S, 520, 520S, C4ST, C4SV, C0ST, C0SS, 224, 224V, 224S. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-DSIE-1F447:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both min. 24 ga. (0.022") exterior and 27 ga. (0.016") interior skins. The steel skins are at least G40 CS-B per ASTM A653. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: 3200, 3205, 3220, 240, 240G. Not all models may be shown on a given drawing.

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". The following models are at least structurally equivalent to the tested door: 3717, C7X17, 3718, C7X18, 3720, C7X20, 240U, 3722, C0X22, 3724, C7X24, 244U. Not all models may be shown on a given drawing.

Product Description for doors with MPC C-AL-1F499:

These doors consist of 2" (nominal) thick aluminum frame sections with glazed or solid panels. The aluminum frames are at detailed on the approval drawings. The maximum section height is 24". The following models are at least structurally equivalent to the tested door: 902, 903, C2AL, C3AL. Not all models may be shown on a given drawing.

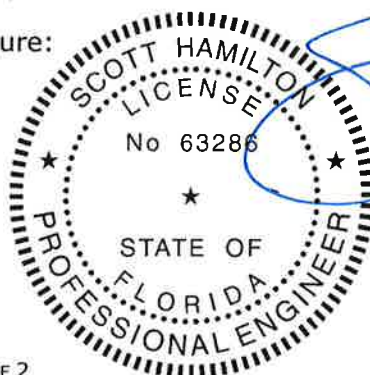
Limitations:

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:



Scott Hamilton, P. E.
Florida P. E. No. 63286

Date: 8/12/20