

John E. Scates, Professional Engineer

June 27, 2025

Carriage House Door Co.
1571 E Main St.
Old Fort, NC 28762-7757

Re: Model: MakroTherm
Evaluation Report for a Steel Residential garage door

To Whom It May Concern:

At the request of Carriage House Door Co, I have reviewed the drawings and tests listed below. The pressures listed on the drawings are either direct results of the tests, or results obtained through rational engineering analysis based on the actual tests. I have concluded that the construction shown on these drawings comply with the wind load requirements of the 8th Edition (2023) of the Florida Building Code, and IBC/IRC 2018/2021/2024 (Texas). I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Drawings

This product was tested to DASMA 108 (static) and DASMA 115 (impact):

This product was tested to TAS202 (static) and TAS 201/203 (impact):

B6300 MakroTherm 2.0 STL

(10' wide) x 8' tall	for +52.0 / -57.0 psf
(16' wide) x 8' tall	for +36.5 / 39.5 psf
(18' wide) x 8' tall	for +29.0 / 35.5 psf

Test Reports

Static testing was conducted in accordance with **ANSI/DASMA 108-17 & TAS 202-94**.
Impact and Cycling was conducted in accordance with **ANSI/DASMA 115-17 & TAS 201/203-94**.

The ATLNC test reports are:

ATLNC 1105.01-24	10' wide x 8' tall
ATLNC 0401.01-25	16' wide x 8' tall
ATLNC 1120.01-24	18' wide x 8' tall

Test Lab

Static tests were conducted at American Test Lab, Inc (ATLNC) in Brevard, NC. This facility was accredited to conduct these test procedures at the time of testing.

The test reports were witnessed and signed by a Florida P.E., David Wesley Johnson.

Installation

The drawings illustrate the relevant windload details for installation of the doors.

Jamb Attachment:

The track brackets of the door must be secured directly to a bare wood surface.

- The wood must be (SP / SYP) Southern Pine / Southern Yellow Pine.
- Fasteners: 5/16" x 3" long lag wood screws.

Model Descriptions

The **MakroTherm** product is a pinch-resistant steel sectional door.

- Insulated with steel back (sandwich).
- Smooth steel, not woodgrain.
- Exterior steel skin 26 ga. (up to 0.5mm)
- Interior steel skin 26 ga.
- Overall nominal thickness is 2-3/8" (60mm)

Additional 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 these drawings and instructions as well.

Each door should be chosen based on the "psf" requirement determined for a specific installation or locale.

The pressure rating of the door is fixed at the pressure of the tested widths:

Up to and including 10'-2" wide is rated	+52.0 / -57.0 psf
From 10'-2" to 16'-2" wide is rated	+36.5 / 39.5 psf
From 16'-3" to 18'-2" wide is rated	+29.0 / 35.5 psf

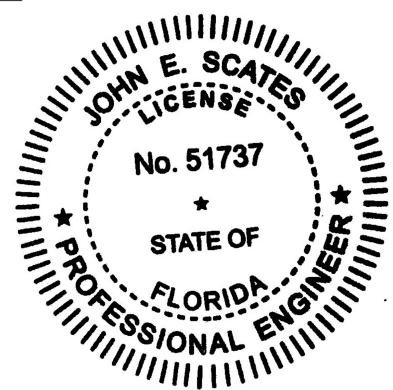
The maximum door width approved with this report is 18'-2" wide.
The maximum door height approved with this report is 12' tall.

The door must be mounted using the manufacturer's track and hardware.

The Door is manufactured to be wider than the opening by intent. The jamb overlap is required to meet the negative pressure rating.

The rated pressures may not be achieved unless the door is held closed during the wind event. Locks must be engaged into both tracks.

This product is not for use in the High Velocity Hurricane Zone (HVHZ) at this time.



Digitally signed by John E Scates
Date: 2025.06.18 14:37:42 -05'00'

John E. Scates, P.E.
Florida PE # 51737
TX PE 56307 / F-2203

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