

John E. Scates, Professional Engineer

October 15, 2023

C.H.I. Overhead Doors
1485 Sunrise Dr.
Arthur, IL 61911

Re: FL 12065
**Evaluation Report for Aluminum Full View Doors
Model 329x family**

To Whom It May Concern:

At the request of C.H.I. Overhead Doors, I have reviewed the drawings and tests listed below and have concluded that the construction shown on these drawings comply with the structural requirements of the 8th Edition (2023) Florida Building Code. I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Rational analysis methods have been applied to define psf pressure ratings for some widths. Each "static" pressure was evaluated based on its tested size to take the least of the results of bending moment and end load conditions.

Drawings

These products are for **static** pressure only:

Z0-09-64305	06'-02" through 18'-02"
Z4-14-64304	10'-02" through 20'-02"
Z6-14-64304	12'-02" through 20'-02"
Z8-16-64304	12'-02" through 24'-02"

Test Reports

Drawing	<u>Tests for Static drawings:</u> ATI Test Report
Z0-09-64305	87324.01-602-47
Z4-14-64304	87316.01-602-47 87310.01-602-47 87313.01-602-47

Z6-14-64304 87312.01-602-47

Z8-16-64304 87302.01-602-47
 87307.01-602-47
 87308.01-602-47
 87309.01-602-47

Additional Supporting Reports

79071.01-602-47	87325.01-602-47
79075.01-602-47	87326.01-602-47
	87327.01-602-47
87302.01-602-47	
87307.01-602-47	
87308.01-602-47	87315.01-602-47
87309.01-602-47	87318.01-602-47
	84559.01-602-47
87324.01-602-47	

Test Facility & Procedures

Static testing was conducted in a manner that complied with **ANSI/DASMA 108-2017**.

Static tests were conducted by Architectural Testing of Schofield, WI at the Schofield location. Static tests were also conducted by ATI at the C.H.I. Overhead Doors "in house" test facility in Arthur, IL. These test facilities were accredited at the time of testing.

All test reports were signed by a Florida PE.

Testing was conducted on model 3290. Model 3295 was equivalent or better in all instances.

Installation Instructions

The drawings provide installation instructions peculiar to windload reinforcement. "Supplemental Instructions Full View" include additional details.

Anchorage Requirements:

This product is offered for both Residential and Commercial applications. Both Residential Track Bracket and Commercial Full Angle track are available.

Attachment drawings provided by C.H.I. Overhead Doors detail how to fasten back jambs equivalent in strength to southern pine or spruce pine fir to the structure. Fasteners used to secure the back jambs must be long enough to achieve the minimum embedment as specified.

The direct mounting of door track on top of drywall or other non-structural material is outside of the scope of C.H.I. Overhead Doors wind load evaluations. Residential garage door track generally has small metal pads that contact the drywall. The loads generated during high wind events may be concentrated by these pads and damage the drywall. Therefore, C.H.I. Overhead Doors promotes the use of back jambs to effectively absorb and redistribute wind loads.

Mounting of 2x6 wood "Back Jamb" or "bucks" to the building structure as a surface to secure the track brackets are detailed on these C.H.I. attachment drawings, depending upon the type of wall construction:

BJA-101 using Concrete Anchors

BJA-102 using Lag Screws

If mounting of the track directly to building jambs is desired, more fasteners and track brackets may be necessary in addition to those shown on the drawings to obtain sufficient track attachment. These C.H.I. attachment drawings provide guidelines:

BJA-103 Steel Attachment Detail

BJA-104 CMU Filled Attachment Detail

BJA-105 Concrete Attachment Detail

BJA-106 Attachment Detail for Wood

This Evaluation Report does not address design of the wall/jambs themselves. These attachment drawings only illustrate common means to attach the jambs to the wall. Walls and Jambs should be designed (by others) to withstand the loads imposed by door onto the building.

Model Descriptions

The 329x Series are aluminum full view doors, nominally 2" thick overall. The doors are constructed from aluminum extrusions with 1/8" glass typically installed. Options of thicker glass, polycarbonate, and aluminum panels are also available as shown on the drawings.

The 3295 uses equal center stile spacing.

The 3297 uses equal center stile spacing with styrene insulation in the aluminum extrusions.

The 3290 uses center stile spacing that matches that of other commercial sections, resulting in slightly longer spans in some instances.

Additional Limitations

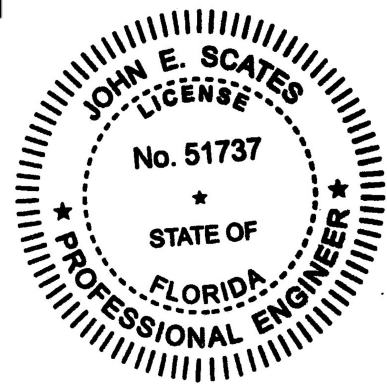
The drawings cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details but relies upon the illustrations and text of these drawings and instructions as well.

Low Headroom track may be used in lieu of the Standard Lift track. The horizontal track may be reinforced with an angle as needed to support the door weight. The construction of the horizontal track, including the track thickness and additional support when needed, is determined by C.H.I. Overhead Doors and does not affect this windload evaluation.

The rated pressures may not be achieved unless the door is held closed during the wind event. Both vertical tracks must be engaged with a lock (right and left side), or alternately an electric drawbar operator attached to the door prior to the wind event.

These products are *not* intended for the Florida High Velocity Hurricane Zone (HVHZ).

Digitally signed by John E Scates
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John E. Scates, P.E.
Florida PE # 51737

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