

W. W. Schaefer Engineering & Consulting, P.A. (CA #6809)

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ENGINEER'S EVALUATION REPORT #WWS-400

Prepared for:

Designer Products, LLC; dba Cambek Designer Doors
702 Troy Street
River Falls, WI 54022
Phone: 800-241-0525

Prepared by:

Warren W. Schaefer, P.E.
Florida Professional Engineer #44135

Manufacturer: Designer Products, LLC; dba Cambek Designer Doors

Product Category: Garage Doors

Evaluation Method: 1-D (Engineer's evaluation)

Product model & name: 18 Ft. Wide Impact Glazed & Unglazed Wood Garage Doors

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1618

Door size & configuration restrictions and assembly requirements:

See drawing No. 1618

Maximum allowable design pressure:

+48/-65 psf

Installation requirements:

See drawing No. 1618

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24

Wood Coatings:

All wood members shall be of an approved durable species or be treated in an approved method with an approved preservative per applicable codes and standards

Steel coatings:

Coating of steel components is galvanizing and complies with FBC.

Glass:

All glass meets the current ASTM E1300 standard.

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203

Test Laboratory: Architectural Testing, Inc. (ATI) & Hurricane Test Lab (HTL) (Both currently known as Intertek Testing Services NA, Inc)

Test report numbers: ATI report No. 94833.01-201-18 and HTL report No. G507-0402-08

Note: All HVHZ test reports have been signed & sealed by a Florida PE.

Compliance statement:

This product & its installations have been evaluated as required by the applicable Florida product approval rule and the Florida Building Code (FBC) and are found to be in compliance with each the rule, the Florida Building Code & all code required standards referenced here-in.

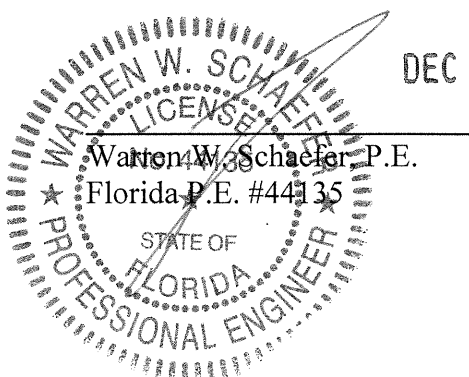
General report notes & system limitations:

1. All size, configuration & installation conditions shown in this report and the referenced drawing No. 1618 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Garage doors shall be constructed in accordance with the descriptions in this report, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply per the current ASCE 7 standard).
5. These garage doors are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. Any change to this product's components and/or assembly or its Florida approval without the knowledge & consent of W. W. Schaefer Engineering & Consulting, P.A. and Warren W. Schaefer, P.E. shall void this evaluation/certification and thus the products Florida approval.

Quality Assurance Entity: Intertek Testing Services NA, Inc.

Disclaimers:

1. The parts, components, assembly & performance of this product, and liability there-of are the sole responsibility of the manufacturer and their quality assurance and shall be as tested unless stated otherwise in this evaluation report or the uploaded approval drawing No. 1618. Neither W. W. Schaefer Engineering & Consulting, P.A. nor Warren W. Schaefer, P.E. claim any responsibility for said parts, components, assembly or performance and shall be deemed responsible only for the evaluation of the product as stated here-in.



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