

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

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ENGINEER'S EVALUATION REPORT #WWS-181

Prepared for:

C.P. Loewen Enterprises
77 Hwy 52 West
Steinbach, MB Canada R5G 1B2
Phone: (204) 326-6446

Prepared by:

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

Manufacturer: C.P. Loewen Enterprises

Product Category: Doors

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

Product model & name: Aluminum Clad Wood StormForce Out-Swing Doors

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1640A

Door size restrictions and assembly requirements:

See drawing NO. 1640A

Maximum allowable design pressure:

See drawing NO. 1640A

Installation requirements:

See drawing No. 1640A

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapter 17

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203

ASTM E1886

ASTM E1996

AAMA/WDMA/CSA 101/I.S.2/A440

AAMA 450

Test Laboratory: Architectural Testing, Inc.

Test report numbers: 98212.01-201-18, 98212.02-201-18, A4603.01-201-44, 98263.01-201-744, 98263.02-201-44, 98265.01-201-44, 98265.02-201-44, 98267.01-201-44, 98267.02-201-44, 98268.01-201-44 & 98262.01-201-44. Note: All HVHZ test reports have been signed & sealed by a Florida P.E.

General report notes & system limitations:

1. All size & installation conditions shown in this report and the referenced drawing No. 1640A are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. 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 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).
5. These doors are large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. Laminated HDF door panels comply with Dade County check list #0475 & FBC.

Quality Assurance Entity: Window & Door Manufacturers Association (WDMA)

AUG 17 2017

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

