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Evaluation reports are the opinion of the evaluation entity, based on the findings, and in no way constitute or imply approval by a local building authority. Apex Technology, in review of the data submitted, finds that, in their opinion, the product, material, system, or method of construction specifically identified in this report conforms with or is a suitable alternate to that specified in the Florida Building Code, SUBJECT TO THE LIMITATIONS IN THIS REPORT

Apex Technology has reviewed the data submitted for compliance with the Florida Building Code. Apex Technology is not responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests, or summaries prepared and submitted by the design professional or preparer of record who are listed in the Substantiating Data section of this report.

REPORT NO. WD200401

EXPIRES: March 1st, 2006

CATEGORY: Doors and Windows

SUBMITTED BY:

Wayne Dalton Corporation
3395 Addison Drive
Pensacola, FL 32514

1. PRODUCT NAME

Model 8000/8100 Garage Door

2. SCOPE OF EVALUATION

Structural Transverse Wind Loads

3. USES

Model 8000/8100 garage doors are used as residential garage doors with specified allowable wind pressures.

4. DESCRIPTION

General

Model 8000/ 8100 are sectional overhead garage doors and are constructed of galvanized steel sections with a two-coat polyester finish. The doors are two-inch thick raised panel doors with tongue and groove sections. They are the same door with one exception: the Model 8000 is non-insulated, and the Model 8100 is insulated with 9/16-inch thick expanded polystyrene.

Model 8000

Model 8000 series garage doors are constructed of 26 gage ASTM A653-00 Forming Steel FS Type B, minimum yield of 33 ksi, with a finish equal to ASTM A525 made up of G-30 finish, covered with two coats of polyester paint with 16 or 20 gage end stiles and 20 gage steel center stiles.

Model 8100

Model 8100 series garage doors are constructed of 26 gage ASTM A653-00 Forming Steel FS Type B, minimum yield of 33 ksi, with a finish equal to ASTM A525 made up of G-30 finish, covered with two coats of polyester paint with 16 or 20 gage end stiles and 20 gage steel center stiles. The model 8100 is insulated with a 9/16-inch thick expanded polystyrene board.

Door Track

Model 8000/ 8100 garage door tracks are made from min. 0.067" thick steel with a G-40 galvanized steel coating.

Glass Panels

Standard 0.090 inch min. SSB glass windows may be installed in the top or intermediate section of the door panel. The location of the windows is specific for each product assembly. For exact location of glass windows, refer to the manufacturer installation instructions/drawings provided.

Wind Loads

Model 8000/ 8100 garage doors were subjected to transverse load testing under ASTM E-330 and DASMA 0108. Allowable transverse wind loads are given in Table 1.

Model 8000/ 8100 garage doors are braced on the inside of the doors with three-inch U-bars and/or 6 inch C-channels running horizontally on each sectional panel, and/or windload posts made of either steel or aluminum. Each series has several models with different configurations of U-bars, C-channels, and windload posts depending on the amount of windload resistance required. Each U-bar is made of 20 gage ASTM A653-00 Steel, minimum yield of 80 ksi. Each C-channel is made of 16 gage ASTM A653-00 forming steel type B, minimum yield of 50 ksi. Both the U-bar and C-channel have a finish equal to ASTM A525 made up of a minimum of G-30 finish. Aluminum windload posts are made up of 0.125-inch thick 6063-T6 aluminum alloy. The post is a telescoping post assembly. The outer member outside diameter is 1.75" wide x 4.00" long. The inside member outside diameter is 1.47" wide x 3.72" long.

5. INSTALLATION

General

Model 8000/ 8100 garage doors are to be installed in accordance with the manufacturer's published installation instructions provided in the Florida Product Approval application, engineering drawings, and this report.

The manufacturer's published installation instructions provided in the Florida Product Approval application shall be strictly adhered to, and a copy of these instructions shall be available at all times on the job site during installation.

Allowable Transverse Wind Loads

Design wind loads on the garage doors shall be determined in accordance with chapter 1606 of the Florida Building Code and shall not exceed the allowable transverse wind loads shown in Table 1.

Table 1: Allowable Transverse Wind Loads

Model	Max Door Width (Ft-In)	Max Door Height (Ft-In)	Design Load		Reinforcements
			Positive (psf)	Negative (psf)	
8000/8100-0211	16-2	14	31.0	33.0	U-bars
8000/8100-0212	9-0	14	46.0	52.0	U-bars
8000/8100-0213	16-2	14	44.0	49.0	C-channels
8000/8100-0214	18-2	14	30.0	32.0	C-channels
8000/8100-0400	16-0	8-0	34.4	38.3	U-bars and Alum Post

6. SUBSTANTIATING DATA

Test reports on transverse wind load under ASTM E330 and DASMA 108 for model 8000/ 8100-garage doors, as prepared by Wayne Dalton Corporation, are as follows:

- Report No. 0212 signed by Mark R. Barrow, P.E.
- Report No. 0211 signed by Mark R. Barrow, P.E.
- Report No. 0213 signed by Mark R. Barrow, P.E.
- Report No. 0214 signed by Mark R. Barrow, P.E.
- Report No. 0400 signed by Mark R. Barrow, P.E.

7. CODE REFERENCES

Florida Building Code 2001 Edition

Section 103.7	Alternate Materials and Methods
Section 1606	Wind Loads
Chapter 17	Structural Tests and Inspections
1707.4	Exterior Window and Door Assemblies
Chapter 22	Steel
Section 2204	Cold Formed Steel Construction
Chapter 26	Foam Plastic

8. REPORT SUMMARY

Upon review of the data submitted by Wayne Dalton, Apex Technology finds that, in their opinion, the Model 8000/ 8100 as described in this report conforms with or is a suitable alternative to that specified in the Florida Building Code 2001 edition.

9. LIMITATIONS

This evaluation report and the installation instructions, when required by the building official, shall be submitted at the time of permit application

The design of the supporting structural elements shall be the responsibility of the professional of record for the building structure and in accordance with current building codes for the loads listed in Table 1 of this report.

The doors shall not be located in areas where the transverse wind loads exceed the allowable loads shown in Table 1.

The Model 8000/ 8100 garage doors can only be used in one and two family dwellings

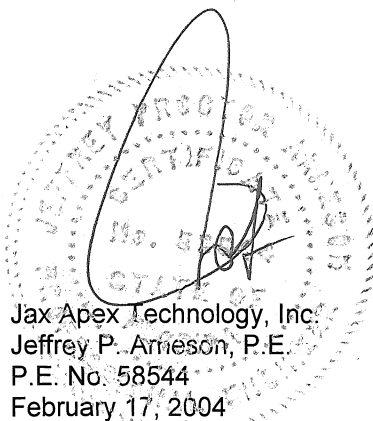
The Model 8000/ 8100 garage doors have not been evaluated with the ventilation louvers installed.

10. IDENTIFICATION

Each Model 8000/ 8100 garage door covered by this report shall be labeled with the manufacturer's name and/or trademark for field identification.

11. PERIOD OF ISSUANCE

The content of this report expires on March 1, 2006. For information on this report, contact Jax Apex Technology, Inc. 904/821-5200



Jax Apex Technology, Inc.
Jeffrey P. Arneson, P.E.
P.E. No. 58544
February 17, 2004