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ATLNC 0227.01-07

Report Date: 5/22/07

Test Date: 02/27/07

ATLNC Certification # 06-1127.03

Test Requested By: Mike Martin
Carriage House Door Company
1571 E. Main St.
Old Fort, N.C. 28762
Phone: 828-668-1600 Fax: 828-668-1805

Test Standards: FBC TAS 202, 1707.4.3.2.1
ASTM E, 330-00, ANSI / DASMA 108-2002

Test Conditions: 70-75 degrees F

Design Pressures: +25.5 psf, -25.5 psf

Description of product tested: Specimen A, Carriage House Door 18' x 8' Model 205 (4) section Wood Garage door as shown in drawing # Carriage-18-8-25-25. Drawing is an integral part of the test report and must accompany the report.

Description of Unit:

Component	Number	Description	Location
Sections	4	216" x 24" Wood section consisting of 1-3/8" thick wood frame sheathed on the interior by 1/4" exterior plywood and exterior by 1/2" exterior plywood attached with 7/16" x 1-1/2" crown staples. The space between the plywood sheathing was filled with foam insulation. Face Boards and trim were 1" x 6" cedar boards. Top section had 4 windows.	As shown in drawing.

Windows	4	DO 43-1/4" x 16", 1/8" thick DSB Glass retained on the outside by 1" x 6" trim board and on the inside by 3/8" x 1-3/4" retainer board. Glass bite - 3/8" with Lexel sealant.	Top section
End stiles	2 per section	5" wide x 1-3/8" x section height minus rails height.	End of each section
Intermediate Stiles	7 per section	2-1/4" wide x (section height - rail height) x 1-3/8" thick wood stile.	2' 3" OC from section end
Rails	2 per section	Bottom rail on bottom section and top rail on top section 5" wide x 1-3/8" thick x 216" long. All other rails 2-1/4" wide x 1-3/8" thick x 216" long.	Top and bottom of each section.
Steel Roller Hinges	4 per section joint	Double 11 gauge galvanized steel hinges with outer hinge attached with (4) 1/4" x 2-1/4" carriage bolts and inner hinge attached with (4) 1/4" x 1-3/8" lag screws.	Each end stile
Intermediate Hinges	7 per section joint	11 gauge steel hinge attached with (4) 1/4" x 2-1/4" carriage bolts and nuts.	Each intermediate stile
3" Struts	2 on bottom section, 1 on other sections	3" 20 gauge 50 KSI strut attached with (2) 1/4" x 1-3/8" lag screw per stile	Each section as shown in drawing
3" 10 ball steel rollers	5 per side	1-13/16" diameter steel rollers with 7/16" x 9" stem with a 7/16" push nut. No push nut on bottom roller.	Sides of door in bottom and top brackets and end hinges
Bottom Brackets	2	11ga x 3" x 8" attached with (3) 1/4" x 2-1/4" carriage bolts and nuts.	Bottom left and right corners of bottom section.
Top Fixtures	4	12 ga (.101") fixtures, outer attached with (2) 1/4" x 2-1/4" carriage bolt and nuts, inner attached with (2) 1/4" x 1-3/8" lag screws.	2 each top corner of door
3" Vertical Track with continuous angle		3" x .090" thick vertical track attached to tapered continuous angle (.080" x 4" to 3-1/2" x 3"). Angle attached to track with (8) 1/4" x 3/4" track bolts and nuts as shown in drawing. Continuous angle attached to frame with (13) 5/16" x 3" lag screws located 3-1/2", 10", 16", 22", 28", 34", 40", 46", 58", 70", 82", 96", 102-1/2" as shown in drawing.	Sides of door

3" Horizontal Track		Attached to 3" Vertical Track with (2) 1/4" x 3/4" track bolts and nuts and to the vertical continuous angle with (1) 3/8" x 3/4" carriage bolt.	Attached to top of 3" vertical track.
Counter balance System	1	Each side of the door balanced with a 1/8" metal cable. Each cable was attached to the bottom bracket and a drum on each side. Drums attached to a shaft and springs	Above the door

STATIC AIR PRESSURE
TAS 202, ASTM E 330-02

Specimen A
Design Loads +25.5psf, -25.5psf

Range of tests

Positive loads

1/2 Test
Test

Time Seconds	Load psf	Max.	Perm.	Recovery
30	19.3	2-7/8"	1/8"	96%
30	38.3	6-3/16"	13/16"	87%

Range of tests

Negative loads

1/2 Test
Test

Time Seconds	Load psf	Max.	Perm.	Recovery
30	19.3	2-13/16"	1/16"	98%
30	38.3	6"	5/8"	90%

Door was operable before and after all tests.

Note: 2 mil polyethylene film was used for the Static Air Pressure Test, it is the opinion of the undersigned that it had no influence on the results of the test.

Observers-

Tony Sivore / ATL
Eddie Ashe, Keith Owen / ATL
Jim Cox, Anthony Worley, Chris Lambert / ATL
David W. Johnson, P.E.
Mike Martin, Shawn Guthrie / Carriage House Doors

Keith Owen, Lab Manager
American Test Lab, Inc.

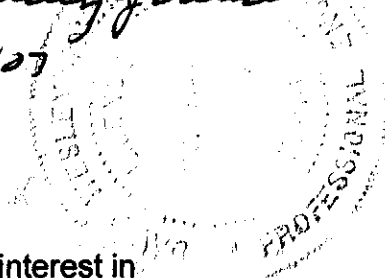
Keith Owen
5/22/07

All Tests Witnessed and Certified by:

David Johnson P. E.
1656 Calvert Rd.
Brevard, NC 28712
Florida P.E. # 00061915

Engineer Seal And Signature

David Worley Johnson
5/22/07



Certificate of Independence: The witnessing engineer has no financial interest in American Test Lab of North Carolina, Carriage House Door Company or their parts vendors. Witnessing engineer is in complete compliance of Florida Statute 9B-72, Section 72.110.

Disclaimer:

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