CERTIFIED TESTING LABORATORIES

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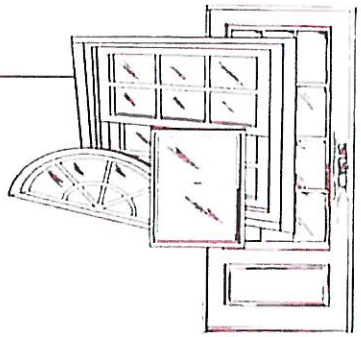


Report Number: **CTLA 1828W-1**
Report Date: **October 20, 2009**

STRUCTURAL PERFORMANCE TEST REPORT

Client: **Nick's Building Supply, Inc.**
11100 Broadway
Crown Point, IN 46307

Product Type and Series: **Single leaf Entry Out-Swing Door**

Test Specifications: **ASTM E 330-02** "*Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*"

Design Pressure: + 60.0 psf. - 60.0 psf.

Overall Size: 38.000" wide x 99.000" high overall.

Configuration: **X** Single Door Unit (Out-swing)

Frame Construction: The frame measured 38.000" wide x 99.000" high overall. The frame head/jamb measured 4.562" wide x 1.220" high *(reference drawing # NBS001, item # 1)*. The threshold measured 4.563" wide by 1.126" high secured together with four (4) #8 x 1.250" Phillips F.H. C.S. wood screws *(reference drawing # NBS001, item # 2)*. The frame head, frame jamb, and threshold utilized coped and butted corner construction and were secured as follows: the frame head, frame hinge jamb and threshold were secured utilizing four (4) #8x 1.250" Phillips F.H. C.S. wood screws.

Panel Construction: The panel measured 36.000" wide x 96.000" high overall. The panel stiles and rails utilized dowel pin and ovolo joint corner construction with a wood glue adhesive secured to the lock stile and the hinge stile. The top rail measured 1.772" wide x 5.008" high *(reference drawing # NBS001, item #5)*. The bottom rails measured 1.772" wide x 5.415" high *(reference drawing # NBS001, item #8)*. The hinge/lock stile measured 5.071" wide x 1.772" high *(reference drawing # NBS001, item #10)*. The mid rail measured 1.772" wide x 8.771" high *(reference drawing # NBS001, item #9)*.

10/20/09

Panel Construction:
Continued: The top raised panel measured 1.772" wide x 53.185" high *(reference drawing # NBS001, item #7)*. The bottom raised panel measured 1.346" wide x 9.688" high *(reference drawing # NBS001, item #11)*. Raised panels were captured within rails and stiles with a wood stop measured 0.7285" wide x 0.984" high secured to rails on the interior and exterior with a 1.50" brad nail *(reference drawing # NBS001, item #6)*

Glazing: N/A

Glazing Method: N/A

Weather-stripping:

Quantity	Description	Location
One (1) strip	Qlon-weather strip	Frame head and jambs on the interior

Hardware:

Quantity	Description	Location
Four (4)	Hinges 4" x 4" x .125" thick, secured with eight (8) # 9x.750" screws to the door stile and face of the door stop.	On frame jamb measuring from head to top of hinges 7", 31.625", 56.375" and 81".
One (1)	Keyed Lock	36" from the bottom of the active door
One (1)	Strike plate secured to jamb with two (2) # 8 x.750" Phillips F.H. C.S. wood screws	36" from the bottom of the inactive door
One (1)	Single Cylinder dead bolt	41 ½" from the bottom of the active door
One (1)	Strike plate secured to jamb with two (2) # 8 x.750" Phillips F.H. C.S. wood screws	41 ½" from the bottom of the inactive door

Sealant: Silrub silicone sealant was used between the wood frame and wood test buck to seal specimen to buck on interior and exterior.

Installation: Eighteen (18) #8 x 1.500" Phillips F.H. wood screws were used to secure the frame to the wooden test buck. Six (6) were used in each jamb located 6.00" from each end and 17.500" maximum on center thereafter. Three (3) were used in the head and sill located 6.00" from each end and 13.000" maximum on center thereafter.

Surface Finish: Wood

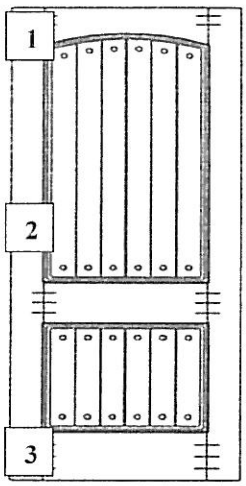
10/30/09

Performance Test Results

Test Sequence: ASTM E330-02
Deflection Gauge Set at Box 1, 2 & 3

1. ½ Test Pressure Positive
2. ½ Test Pressure Negative
3. Design Pressure Positive
4. Design Pressure Negative
5. Test Pressure Positive
6. Test Pressure Negative

Measurement Locations



Deflection / Permanent Set were measured with three (3) CDI Dial Indicators
Measurements were taken at:

- Location 1 2" from top of door panel
- Location 2 2" above handle; door panel
- Location 3 2" from bottom of door panel

ASTM E330-02
Uniform Static Loading

	Duration	Actual Load		Deflection	Set	Allowable
Positive Loads						
Design Pressure: **+ 60.0 psf.**						
Range of test						
50% Test Load	10 Second Loading	45.0 psf.				
Design Load	30 Second Loading	60.0 psf.	Loc. 2	0.235"		
Test Load	10 Second Loading	90.0 psf.	Loc. 2		0.100"	0.384"
Negative Loads						
Design Pressure: **- 60.0 psf.**						
Range of test						
50% Test Load	10 Second Loading	45.0 psf.				
Design Load	30 Second Loading	60.0 psf.	Loc. 2	0.261"		
Test Load	10 Second Loading	90.0 psf.	Loc. 2		0.070"	0.384"

Location (2):
Maximum allowable Permanent Set after test load at 2" above handle (0.4% of 96.00" span) = 0.384".

10/20/09

Test Date: **March 31, 2008**

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.

Test Witnessed by:

Ted Scanlon	CTL
Justin Mobley	CTL

Clients Present:

Lou Pitzel	Nick's Building Supply, Inc.

Maricruz Ayala
Lab Technician
Architectural Division

Ramesh Patel, P.E
Florida Reg. #20224
Structural Engineer

Cc: Nick's Building Supply, Inc. (2)
Building Drops, LLC (1)
Ramesh Patel, P.E. (1)
File (1)