

Hardware Resources  
Date: February 10, 2011  
P.O. No.: Grant Nuckolls

Report No.: G100330371GRR-001  
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**Test Report For:**  
**Hardware Resources**  
**ANSI/BHMA A156.9-2010**  
**Cabinet Hardware Test Standard**  
**K271 Wire Pull**

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**Jim Vantz**  
**Senior Project Manager**

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**Bryan Stratton**  
**Reviewer/si**

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Attention: Grant Nuckolls  
Hardware Resources  
4319 Marlena St  
Bossier City, LA 71111  
Phone: 3182120488  
Fax: grantn@hrpsp.com

**DATE RECEIVED:** 2/7/11  
**DATES TESTED:** 2/10/11

**DESCRIPTION OF SAMPLES:**

Part/Description: K271 Wire Pull  
Part Number: K271-96SS

**WORK REQUESTED/APPLICABLE DOCUMENTS:**

To test the submitted samples per ANSI/BHMA A156.9-1994 Standards for the following test program:

Test Number  
4.7

Test Description  
Knob and Pull Load

**CONCLUSION:**

The submitted sample meets the acceptance level criteria of the test.

**TEST EQUIPMENT:**

Asset	Description	Cal Date	Cal Due
138012	SCALE / 0-1,000 #	11/30/2010	11/30/2011
138228	STOPWATCH	12/08/2010	12/08/2011
114147	TORQUE WRENCH 30 INLB	3/20/2006	VBU

### TEST KNOB AND PULL LOAD TEST

Dates Tested: 2/10/11  
Sample Condition: New

Test Procedure:

Test Method: ANSI/BHMA A156.9-2010  
Test No. 4.7 Part is attached to a 3/4 inch thick  
hardwood using the attaching hardware supplied by  
the manufacturer

Pull Load: 75 lbs. (tension and compression)  
Installation Torque: 16 in. lbf  
Proof Torque: 21 in. lbf  
Duration of loads: 10 seconds

Number of Samples Tested: One (1)

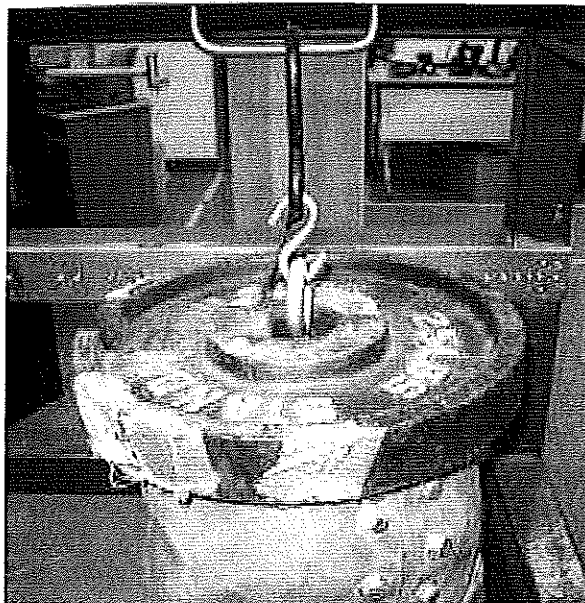
Acceptance Criteria:

The pull shall support a load of 75 lbs without chipping, disassembly, and breakage of the part or screws. The unit shall withstand the Installation torque load without chipping. The unit shall withstand the proof torque without breakage of the part or rotation of the threaded insert.

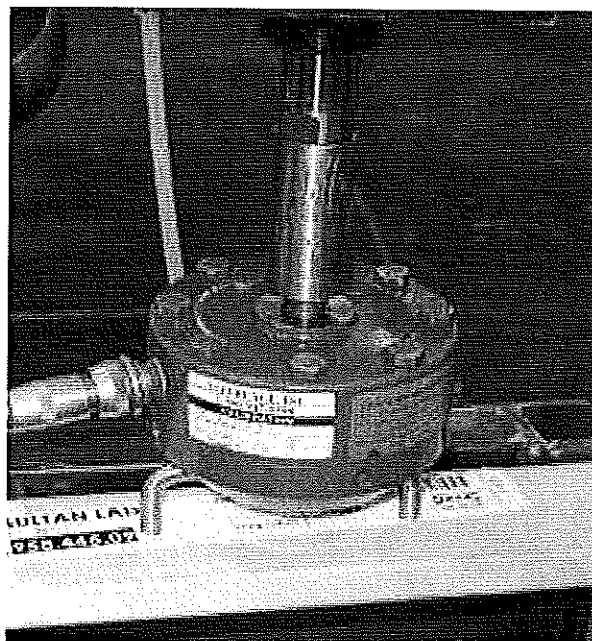
Results:

Description of test	Description of Results
Pull Load	Pass
Installation Torque	Pass
Proof Torque	Pass

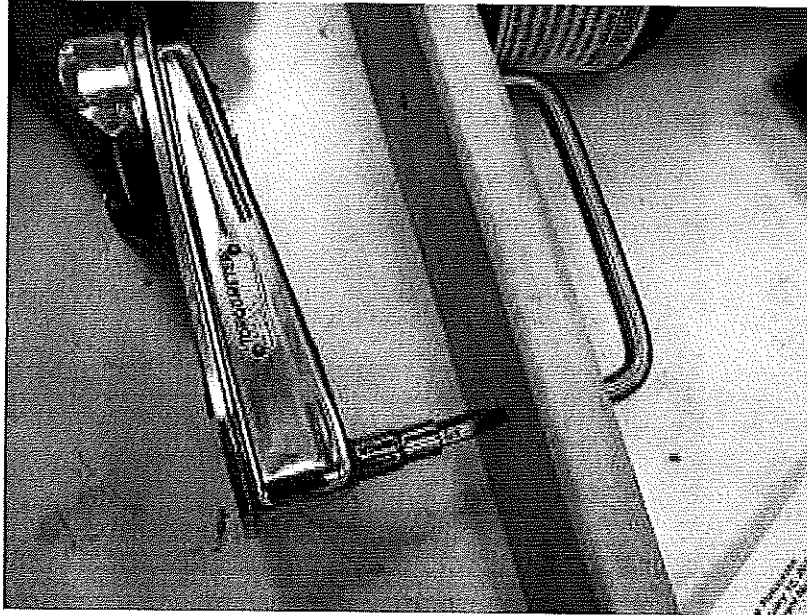
The sample meets the acceptance level criteria. Refer to the following pages for photographs.



**Pull Load Test**



**Tension Test**



**Torque Test**