



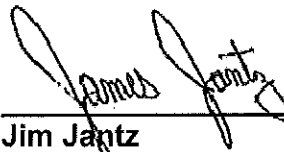
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Hardware Resources
Date: January 13, 2011
P.O. No.: Grant Nuckolls

Report No.: G100293068GRR-001A
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Test Report For:
Hardware Resources
ANSI/BHMA A156.9-2010
Cabinet Hardware Test Standard
S271 Wire Pull


Jim Jantz
Senior Project Manager


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: 12/27/10
DATES TESTED: 1/5/11

DESCRIPTION OF SAMPLES:

Part/Description: S271 Wire Pull

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	12/08/2009	12/08/2010
114147	TORQUE WRENCH 30 INLB	3/20/2006	VBV

TEST KNOB AND PULL LOAD TEST

Dates Tested: 1/5/11
Sample Condition: Production

Test Procedure:

Test Method: ANSI/BHMA A156.9-2010
Test No. 4.7 Part is attached to a ¾ 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)

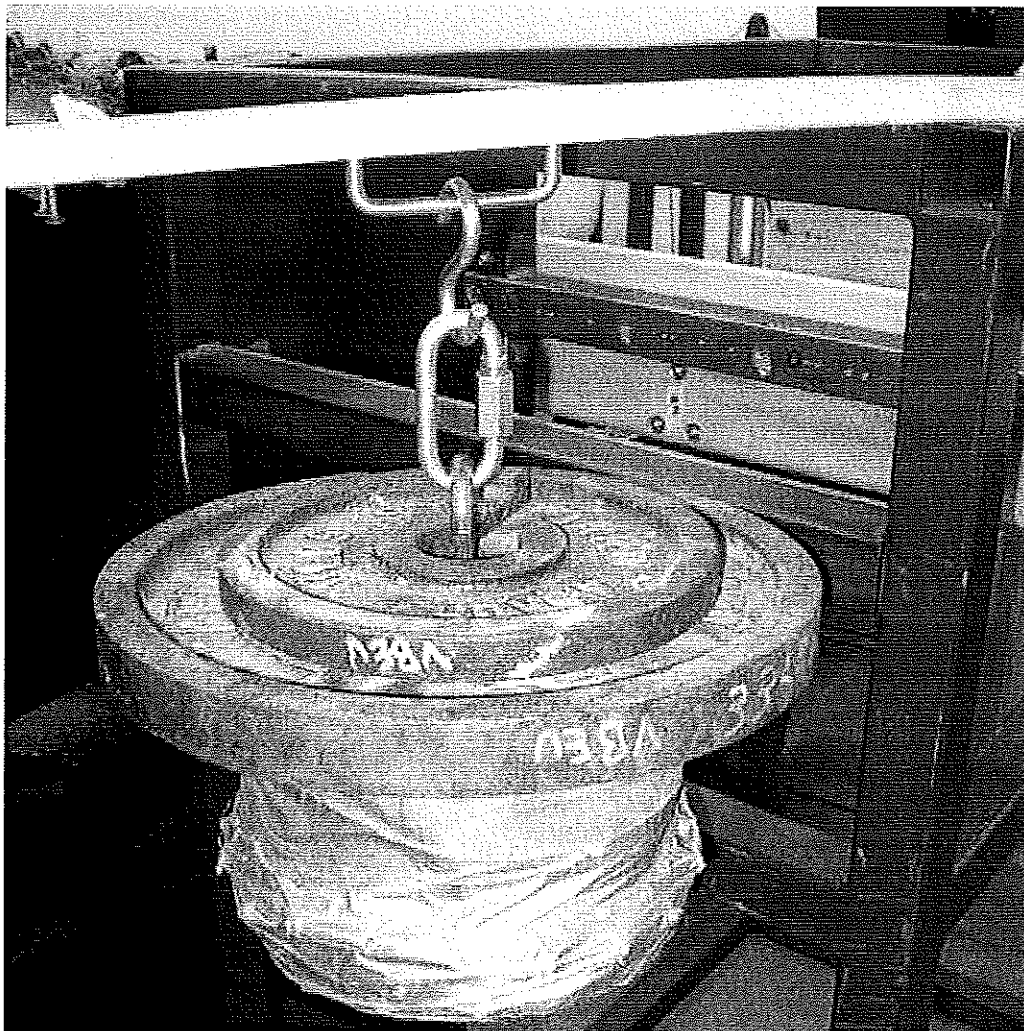
Acceptance Criteria:

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.

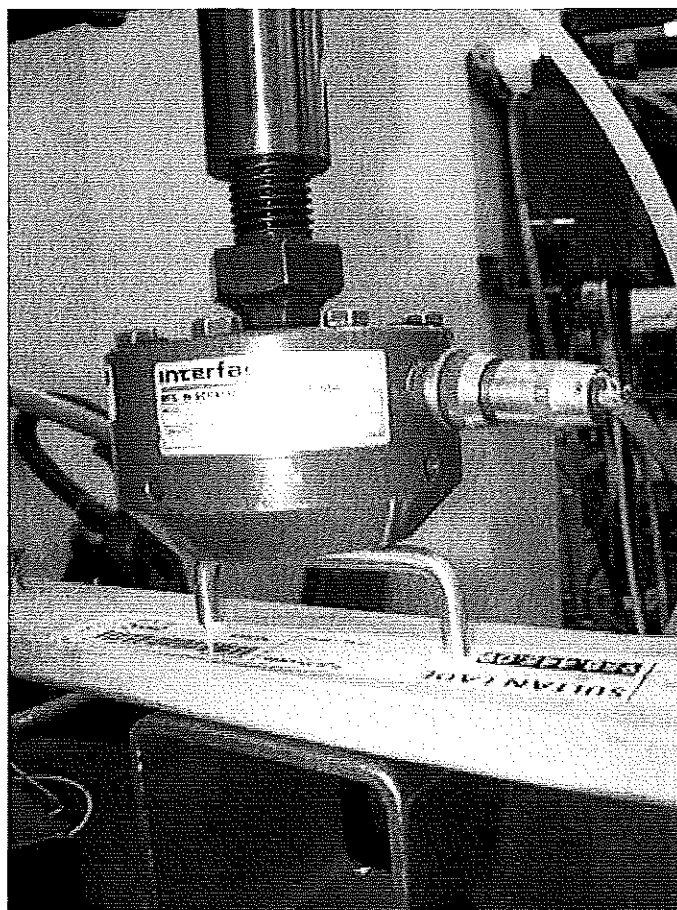
Results:

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

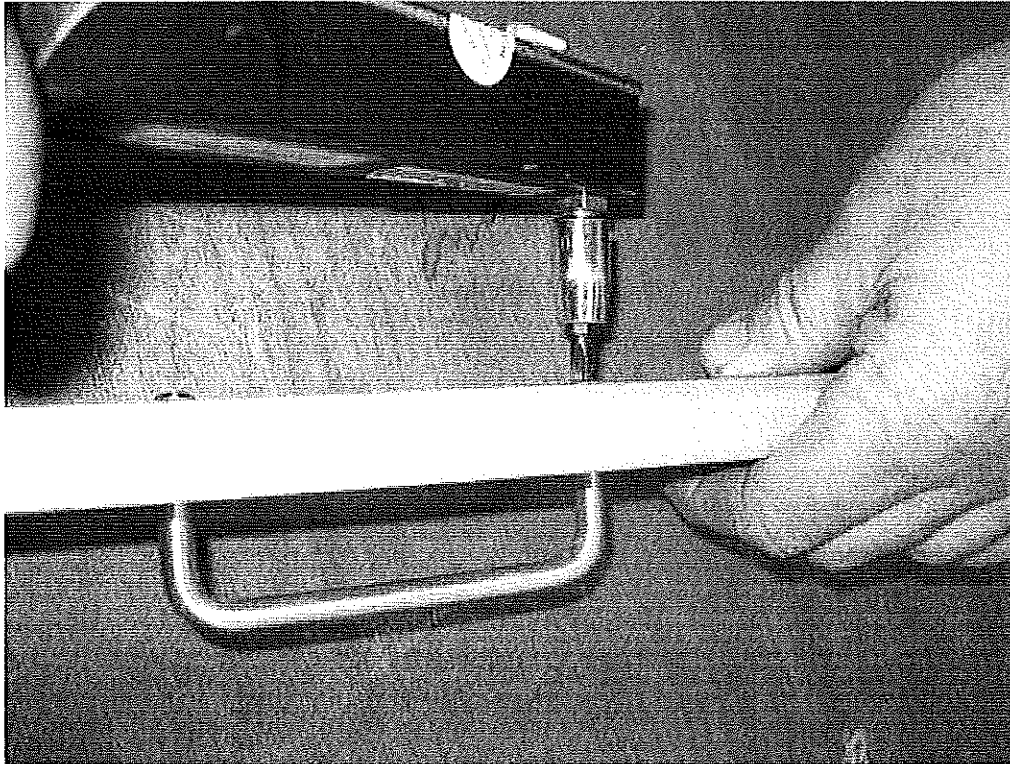
The sample meets the acceptance level criteria. Refer to the following pages for photographs.



Pull Load In Tension Test



Pull Compression Load



Torque Test