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## ANSI/BHMA A156.9-2003 PERFORMANCE TESTING SHELF BRACKETS AND STANDARDS TEST

Rockford Process Control  
2020 Seventh St  
ROCKFORD, IL, 61101

Date: November 6, 2012  
Author: Jacob Woolstencroft  
Report Number: ESP011766-1

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**INTRODUCTION:**

This report presents the results of ANSI/BHMA A156.9-2003 testing conducted on Shelf Brackets and Standards. Mr. Chuck Wilke of Rockford Process Control submitted the test samples. Testing was completed on November 6, 2012.

**TEST METHODS:**

Testing was conducted in accordance with ANSI/BHMA A156.9-2003 Section 4.9 “Test 8 Shelf Brackets and Standards and Ornamental Shelf Supports Test” and Section 4.8 “Test 7 Shelf Rest and Standards and Shelf Rests Test” specifications. Details of the methodology used for the tests are available on the individual test data sheets at the end of this report.

<b><u>INSTRUMENTATION:</u></b>	<b><u>Equipment #</u></b>	<b><u>Cal. Date</u></b>	<b><u>Cal Due</u></b>
Floor Scale	PT-162-102	2-3-12	2-3-13
M-D Building Products, Digital Level	PT-162-062	3-20-12	3-20-13

**REMARKS:**

The test specimens will be returned to the client.

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## ANSI/BHMA A156.9-2003

### Section 4.8 Test 7 - Shelf Rests and Standards and Shelf Rests Test

#### Sample Identification:

B01-CLPXX-174, Shelf Rest (Clip)

100-lbs



#### Test Method Summary:

The purpose was to test the ability of the clips to withstand abnormal loading. The supports were mounted on 6" on-centers. The shelf was constructed using  $\frac{3}{4}$ " x 8" x 24" plywood. The static test load was slowly applied to the shelf and allowed to settle for 5-minutes. With the shelf loaded, a 20-in-lbf impact load was applied at the middle of the shelf.

#### Acceptance Level:

No rest shall collapse.

#### Test Results:

<b>Bracket Part Number:</b>	<b>Pass/Fail</b>
B01-CLPXX-174, Shelf Rest (Clip), 100-lbs	Pass

## ANSI/BHMA A156.9-2003

### Section 4.9 Test 8 - Shelf Brackets and Standards and Ornamental Shelf Supports Test

**Sample Identification (photos on following page):**

B01-54201-224, 20" Double Bracket	20", 210-lbs
B01-54141-224, 14" Double Bracket	14", 180-lbs
B01-54101-224, 10" Double Bracket	10", 150-lbs
B01-54081-224, 8" Double Bracket	8", 125-lbs
B01-56181-WH4, 18.5" Premier Double Bracket	18.5", 210-lbs
B01-56141-WH4, 14.5" Premier Double Bracket	14.5", 180-lbs
B01-56101-WH4, 10.5" Premier Double Bracket	10.5", 150-lbs
B01-56071-WH4, 7" Premier Double Bracket	7", 125-lbs
B01-56051-WH4, 5" Premier Double Bracket	5", 100-lbs

**Test Method Summary:**

The purpose was to test the ability of the brackets & standards to withstand abnormal loading. The supports were mounted on 16" on-centers. The shelf was constructed using ¾" plywood to the correct depth for each bracket. The static test load was slowly applied to the shelf and allowed to settle for 5-minutes. With the shelf loaded, a 20-in-lbf impact load was applied at the middle of the shelf. The final deflection measurements were recorded under load.

**Acceptance Level:**

The shelf shall not deflect more than 3° under the loading conditions.

**Test Results:**

<b>Bracket Part Number:</b>	<b>Deflection</b>	<b>Pass/Fail</b>
B01-54201-224, 20", 210-lbs	0.5°	Pass
B01-54141-224, 14", 180-lbs	1.3°	Pass
B01-54101-224, 10", 150-lbs	0.9°	Pass
B01-54081-224, 8", 125-lbs	0.6°	Pass
B01-56181-WH4, 18.5", 210-lbs	0.9°	Pass
B01-56141-WH4, 14.5", 180-lbs	0.8°	Pass
B01-56101-WH4, 10.5", 150-lbs	0.8°	Pass
B01-56071-WH4, 7", 125-lbs	0.6°	Pass
B01-56051-WH4, 5", 100-lbs	0.6°	Pass

**PHOTOGRAPHS:**

B01-54201-224, 20" Double Bracket  
B01-54141-224, 14" Double Bracket  
B01-54101-224, 10" Double Bracket  
B01-54081-224, 8" Double Bracket  
B01-56181-WH4, 18.5" Premier Double Bracket  
B01-56141-WH4, 14.5" Premier Double Bracket  
B01-56101-WH4, 10.5" Premier Double Bracket  
B01-56071-WH4, 7" Premier Double Bracket  
B01-56051-WH4, 5" Premier Double Bracket

