

May 29, 2009

SEFA-8-M-2007 TESTS

Performed For:

**Jamestown Metal Products
178 Blackstone Avenue
Jamestown, NY 14701**

7.0 Wall Mounted Cabinets

7.1 Description of Test Cabinet:

Model Number: P203-48 (48" X 30" X 12")

7.2 Load Test

7.2.1 Purpose of Test

The test demonstrates the strength of the back of the wall cabinet.

7.2.2 Test Procedure

Shelf dimensions are 47.5 X 9.5 = 3.13 sq.ft., therefore 13 ten lb. sand bags were used to load the cabinet bottom, the cabinet top, and two shelves, (~40 lb/sq.ft.). A total of 520 pounds, (236.4 Kg) were placed on the wall cabinet (Figure 1). With the weight in place, the doors were operated through their full travel to verify normal operation. The weight was removed and the doors were again operated through their full travel to verify normal operation.

7.2.3 Acceptance Level

The doors opened and closed normally with and without the weight in place. There is no significant permanent deflection or damage to the cabinet, cabinet back, cabinet top, cabinet bottom, or shelf.



Figure 1

9.0 Shelving

9.1 Shelf Load Test

9.1.1 Purpose of Test

Demonstrate the ability of a shelf and its mounting hardware to support normal laboratory loads.

9.1.2 Test Procedure

Shelf dimensions are $47.5 \times 9.5 = 3.13$ sq.ft, therefore 13 ten lb. sand bags were used to load the cabinet shelf, (~40 lb/sq.ft.) (Figure 2). The deflection was measured with a dial indicator.

9.1.3 Acceptance Level

The deflection was 0.244" of an inch which is which is less than the allowable maximum of 0.25". There were no signs of permanent damage to the shelf.



Figure 2

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