

## Test report

Nr. Q MBL N 938 1457

**Applicant:** Steelcase Werndl AG  
Georg-Aicher-Straße 7  
83026 Rosenheim

**Unit:** Mobil Storage Caddy Program "Moby 2"

**Test order:** Test in accordance with ANSI/BIFMA X 5.9 – 2004

### Findings:

The scope comprised all relevant tests to ANSI/BIFMA X 5.9 – 2004.

The Mobil Storage Caddy Program "Moby 2" meets the requirements in all points.

The tests were carried out at the Furniture Test Institute of LGA in Nuernberg.

For technical data and test findings see the following pages.


Note: The LGA-Furniture Test Institute is a BIFMA approved test lab;  
see actual BIFMA LAB list.

Nuremberg, 2008-07-18  
Q MBL N/ hy/her/sm/pi

LGA - QualiTest GmbH  
Furniture Testing Institute

  
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Head of Competence Center



  
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person in charge

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## Test Results

**Sample:**

Unit: W9M1048U Moby2-Rollo 71B 72H  
W9M3044U Moby2-Rollo 71B 107H  
W9M6045U Moby2-Schub 71B 72H  
W9M60440 Moby2-Klappe 71B 72H  
W9M80410.Moby2-Klappe 71B 107H  
W9M30220 Moby2-Rollo 54B 107H

Supplied on: May 15, 2008 (RegNr.472)  
\*) July 11, 2007 (RegNr. 575)

Supplied by: Steelcase

**Scope of testing**

- Appearance
- Connections
- Durability
- Stability

**Test methods:**

ANSI/BIFMA X 5.9 – 2004 Storage Units Test

**Scope of test results**

The test results refer only to the samples submitted to test. The digital photos, if there are any serve for supplementary explanation and do not constitute an own part of the test result.

**General tolerances**

Unless not otherwise specified the accuracy of the linear dimension is defined according to DIN 7168-g for old drawings respectively to DIN ISO 2768 part 1 "c" for new drawings. All other physical dimensions shall have an accuracy of < 5 % of the nominal force. The tests were carried out at ambient temperature, unless not otherwise stated

## General tests

### Product documents

- Product description; state 2007-10-24

### Description of the laboratory samples

- Corpus (laterals, surface soil, undersurface, shelves); particle board 19 mm, melamin coated
- Top surface (particle board, 13 mm)
- Front (flaps, drawer) particle board 13 mm, melamin coated
- Back board: particle board 8 mm; melamin coated
- All particle board borders covered with circular lipping in ABS (thickness 2 mm), smooth edges
- Folding handle for pulling (aluminium die cast) with grip pad
- Handle in aluminium
- Twin Castors (2 adjustable, 2 one way) mounted on a support base plate (steel, powder coated); castor-diameter 75 mm
- Concrete as counterweight at the inside of back board
- Letter slot, 19 mm height, width 226 mm
- Interlock system with key pedestals with more than one extendible element
- Locks for sliding doors or pedestals with one extendible element

### Dimensions and Photos of the laboratory samples

#### - W9M60440:

Height: 720 mm  
Depth 434 mm  
Width: 708.5 mm  
Weight: 35.6 Kg

Pedestal with one flap and one extendible element.



W9M60440

#### - W9M80410:

Height: 1070 mm  
Depth 434 mm  
Width: 710 mm  
Weight: 63.8 Kg

Pedestal with one flap above, one extendible element in the middle and one extendible element for hanging files below.



W9M80410



- **W9M30220:**

Height: 1070 mm  
Depth 434 mm  
Width: 538,5mm  
Weight: 49.8 Kg

Pedestal with a horizontal sliding door, two shelves above and two extendible elements



W9M30220

- **W9M6045U:**

Height: 720 mm  
Depth 435 mm  
Width: 710 mm  
Weight: 50.2 Kg

Pedestal with an extendible element and one extendible element for hanging files.



W9M6045U

- **W9M1048U:**

Height: 720 mm  
Depth 435 mm  
Width: 709 mm  
Weight: 42.6 Kg

Pedestal with a vertical sliding door, two shelves above and two extendible elements



W9M1048U

- **W9M3044U:**

Height: 1070 mm  
Depth 435 mm  
Width: 710 mm  
Weight: 53.1 Kg

Pedestal with a vertical sliding door, one shelf, one extendible element and one extendible element for hanging files.



W9M3044U

**Summary of the results:**

Test	Name of the test	Result	Comment
X 5.9 – 4	Unit Strength Test	passed	see picture 1-4
X 5.9 – 5	Leg/Glide Assembly Strength Test	n/a	
X 5.9 – 6	Racking Resistance Test	passed	see picture 5
X 5.9 – 7	Top Load Ease Test	passed	
X 5.9 – 8.1	Horizontal Disengagement Test	n/a	
X 5.9 – 8.2	Upward Impact Force Disengagement Test	n/a	
X 5.9 – 9.2	Horizontal Force Stability Test Without Extendible Elements	passed	
X 5.9 – 9.3	Horizontal Force Stability Test For Type I Units with at least one Extendible Elements	passed	
X 5.9 – 9.4	Horizontal Force Stability Test For Type I Units with Multiple Extendible Elements	passed	
X 5.9 – 9.5	Horizontal Force Stability Test For Type II Storage Units having Extendible Elements	n/a	
X 5.9 – 9.6	Vertical Force Stability Test for Type II without Extendible Elements	n/a	
X 5.9 – 9.7	Stability Test for Pedestals Units with Seat Surfaces	n/a	
X 5.9 – 10	Storage Unit Drop Test (not for units with castors)	n/a	
X 5.9 – 11	Movement Durability Test for Mobile Storage Units	passed	see picture 6
X 5.9 – 12	Rebound Test	passed	
X 5.9 – 13	Out Stop Test	passed	see picture 7
X 5.9 – 14.2	Lock Test for Extensible Element Locks	passed	
X 5.9 – 14.3	Force Test for Door Locks	passed	
X 5.9 – 14.4	Locking Mechanism Cycle Test for Locks	passed	
X 5.9 – 15.2.1	Cycle Test for Extendible Elements Deeper than Wide	n/a	
X 5.9 – 15.2.2	Cycle Test for Extendible Elements Wider than Deep	passed	
X 5.9 – 15	Cycle Test for Television/Video Display Terminal Extensible Element	n/a	



Test	Name of the test	Result	Comment
X 5.9 – 16	Interlock Strength Test	passed	
X 5.9 – 17.2	Strenght Test for Vertically Hinged Doors, Bi-fold Doors, and Vertically Receding Doors	n/a	
X 5.9 – 17.3	Override Test for Hinged Doors	n/a	
X 5.9 – 17.4	Vertical Receding Doors Strength Test	n/a	
X 5.9 – 17.5	Horizontal Receding Door Strength Test	passed	
X 5.9 – 17.6	Wear and Fatigue Test for Hinged Doors and Horizontally Sliding Doors	passed	
X 5.9 – 17.7	Wear and Fatigue Test for Vertical Receding Door	n/a	
X 5.9 – 17.8	Wear and Fatigue Test for Horizontal Receding Door	passed	
X 5.9 – 17.9	Vertical and Horizontal Receding Door Out Stop Test	passed	see picture 8
X 5.9 – 17.10	Slam Open and Closed Test for Doors which Do Not Free Fall	passed	
X 5.9 – 17.11	Slam Closed Test for Vertically Hinged and Vertically Receding Doors	n/a	
X 5.9 – 17.12	Drop Test for Horizontally Receding Doors Cyclic	passed	see picture 9
X 5.9 – 17.13	Slam Test for Doors which Free Fall Open or Closed (sliding, rolling)	n/a	
X 5.9 – 17.14	Door Latch Test	passed	
X 5.9 – 18	Clothes Rails Static Loading Test	n/a	
X 5.9 – 19	Swivel Cycle Test for Television/Video Display Terminal Surfaces	n/a	
X 5.9 – 20	Pull Force Test	passed	

**Picture documentation (selected)**



picture 1: unit strength test  
Distributed functional load



picture 2: unit strength test  
Distributed proof load



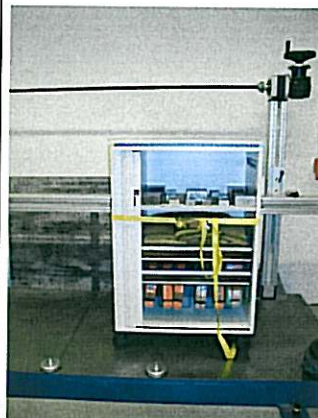
picture 3: unit strength test  
Concentrated functional load



picture 4: unit strength test  
Concentrated proof load



picture 5: racking resistance test



picture 6: movement durability



picture 7: extendible element out-  
stop test



picture 8: receding door out-stop test



picture 9: Drop test