



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ADVANCED FURNITURE TESTING – JASPER

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MECHANICAL

Valid To: July 31, 2016

Certificate Number: 3668.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on office furniture, cabinets, and vanities:

Test Method(s):
ANSI/BIFMA X5.1

Test:
Backrest Strength Test - Static - Type I
Backrest Strength Test - Static - Type II & III
Base Test - Static
Drop Test - Dynamic
Swivel Test - Cyclic
Tilt Mechanism Test - Cyclic
Seating Durability Tests - Cyclic
Stability Tests
Arm Strength Test - Vertical - Static
Arm Strength Test - Horizontal - Static
Backrest Durability Test - Cyclic - Type I
Backrest Durability Test - Cyclic - Type II & III
Caster / Chair Base Durability Test - Cyclic
Leg Strength Test - Front and Side Application
Footrest Static Load Test - Vertical
Footrest Durability Test - Vertical - Cyclic
Arm Durability Test - Cyclic
Out Stop Tests for Chairs with Manually Adjustable Seat Depth
Tablet Arm Static Load Test
Tablet Arm Load Ease Test - Cyclic

ANSI/BIFMA X5.3

Stability Test
Unit Strength Test Functional
Unit Strength Test Proof
Racking Resistance Test
Drop Test
Extendable Element Cycle Test
Interlock Test
Rebound Test
Out Stop Test

ANSI/BIFMA X5.3
(cont'd)

Force Test for Locks
Locking Mechanism Cycle Test
Latch Test - Static
Compressor Test
Pull Force Test

ANSI/BIFMA X5.4

Backrest Strength Test - Horizontal - Static
Backrest Strength Test - Vertical - Static
Backrest Durability Test - Horizontal - Cyclic
Backrest Durability Test - Vertical - Cyclic
Arm Strength Test - Horizontal - Static
Arm Strength Test - Vertical - Static
Arm Durability Test - Horizontal - Cyclic
Arm Durability Test for Multiple Seating Units - Vertical - Cyclic
Arm Durability Test for Single Seat Units - Angular - Cyclic
Seating Durability Tests - Cyclic
Drop Test - Dynamic
Leg Strength Test - Front and Side Application
Unit Drop Test - Dynamic
Caster/Unit Base Durability Test - Cyclic
Swivel Test - Cyclic
Tilt Mechanism Test - Cyclic
Stability Test
Tablet Arm Load Ease Test - Cyclic
Tablet Arm Load Test - Static

ANSI/BIFMA X5.5

Stability with Extendable Elements Open Test
Stability Under Vertical Load Test
Horizontal Stability Test for Desks/Tables with Casters
Stability Test for Keyboard/Laptop Tables (with and without casters)
Force Stability Test for Tall Desk/Table Products
Concentrated Functional Load Test
Distributed Functional Load Test
Concentrated Proof Load Test
Distributed Proof Load Test
Transaction Surface Torsion Load Test
Extendable Element Static Load Test
Benching Systems - Distributed Functional Load and Stability Test
Benching Systems - Distributed Proof Load Test
Top Load Ease Test
Desk/Table Unit Drop Test
Leg Strength Test
Separation Test for Tall Desk/Table Products
Cycle Test for Extendable Elements Deeper than Wide
Cycle Test for Extendable Elements Wider than Deep
Cycle Test for low height drawers
Extendible Element Retention Impact and Durability (Out Stop) Tests
Extendible Element Rebound Test
Interlock Strength Test
Force Test for Extendable Element Locks
Force Test for Door Locks
Locking Mechanism Cycle Test



ANSI/BIFMA X5.5(*cont'd*) Work Surface Vertical Adjustment Test
Keyboard Support and Input Device Support Adjustment Tests
Strength Test for Vertically-Hinged Doors, Bi-fold Doors, and Vertically
Receding Doors
Hinge Override Test for Vertically-Hinged Doors
Vertical Receding Door Strength Test
Horizontal Receding Door Strength Test
Wear and Fatigue Test for Hinged Horizontal Siding, and Tambour Doors
Wear and Fatigue Test for Vertical Receding Doors
Wear and Fatigue Test for Horizontal Receding Doors
Vertical and Horizontal Receding Door Out Stop Test - Cyclic Impact and
Durability
Slam Closed Test for Vertically Hinged and Vertically Receding Doors
Drop Cycle Test for Horizontally Hinged and Horizontally Receding
Doors
Slam Test for Doors that Free Fall Open or Closed
Slam Open and Closed Test for Doors That Do Not Free Fall
Door Latch Test
Durability Test for Desks and Tables with Casters
Pull Force Test
Tilting Top Table - Cycle Test
Tilting Top Table - Latch Strength Test
Monitor Arm Strength Test
Monitor Arm Cycle Test
Monitor Arm Dislodgment Test

ANSI/BIFMA X5.6
(*except Section 4*) Force Stability Test
Impact Stability Test
Force Stability Test for Freestanding Screens
Mechanical Strength Test for Panel System Products
Panel Glide Assembly Strength Test
Primary Surface Concentrated Functional Load Test
Horizontal Surface Distributed Functional Load Test
Primary Surface Concentrated Proof Load Test
Horizontal Surface Distributed Proof Load Test
Transaction Surfaces Torsional Load Test
Functional Load Test for Panel Mounted Storage Units - Static
Proof Load Test for Panel Mounted Storage Units - Static
Test for Extendable Element Locks
Force Test for Door Locks
Top Load Ease Cyclic Test (for Primary Surfaces)
Cyclic Test for Extendable Elements Deeper Than Wide
Cycle Test for Extendable Elements Wider than Deep
Cycle Test for Center / Pencil Drawers
Extendable Element Retention Impact and Durability Tests
Rebound Test
Locking Mechanism Cycle Test
Keyboard Support and Input Device Support Adjustment Tests
Work Surface Vertical Adjustment Test
Strength Test for Vertically Hinged Doors, Bi-Fold Doors, and Vert.
Receding Doors

ANSI/BIFMA X5.6
(except Section 4) (cont'd)

Hinged Override Test for Vertically Hinged Doors
Vertical Receding Door Strength Test
Horizontal Receding Door Strength Test
Wear and Fatigue Tests for Hinged, Horizontally Sliding, and Tambour Doors
Wear and Fatigue Tests for Vertical Receding Door
Wear and Fatigue Tests for Horizontal Receding Door
Vertical or Horizontal Receding Door Out Stop Test, Cyclic Impact & Durability
Slam Closed Test for Vertically Hinged Doors
Drop Test for Horizontally Hinged Doors - Cyclic
Slam Test for Doors which Free-Fall Open or Closed
Slam Open/Closed Test for Doors that Do Not Free-Fall
Door Latch Test
Upward Force Static Disengagement Test for Panel Mounted Components
Upward Force Impact Disengagement Test for Panel Mounted Components
Pull Force Test

ANSI/BIFMA X5.9

Concentrated Functional Load Test
Distributed Functional Load Test
Concentrated Proof Load Test
Distributed Proof Load Test
Leg / Glide Assembly Strength Test
Racking Resistance Test
Top Load Ease Test - Cyclic
Drop Test - Dynamic - for Units with Seat Surfaces
Durability Test for Units with Seating Surfaces - Cyclic Impact
Separation Test for Tall Storage Units with Vertically Attached or Stackable Components
Upward Impact Force Disengagement Test for Storage Units
Upward Force Disengagement Test for Storage Units
Horizontal Force Stability Test for Tall Storage Units
Stability Test for Type I Units with at Least One Extendible Element
Stability Test for Type I Units with Multiple Extendible Elements
Stability Test for Type II Storage Units Having Extendible Elements
Vertical Force Stability Test for Units
Stability Test for Pedestals/Storage Units with Seat Surfaces
Storage Unit Drop Test
Movement Durability Test for Mobile Storage Units
Rebound Test
Extendible Element Retention Impact and Durability (Out Stop) Tests
Force Test for Extendible Element Locks
Force Test for Door Locks
Locking Mechanism Cycle Test for Locks
Cycle tests for Extendible Elements Deeper than Wide that Do Not Swivel
Cycle Test for Extendible Elements Wider Than Deep That Do Not Swivel
Horizontal Cycle Test for Television / Video Display Terminal Extendible Elements
Cyclic Test for Low Height Drawers
Interlock Test

ANSI/BIFMA X5.9(*cont'd*) Strength Test for Vertically Hinged, Bi-Fold Doors and Vertically Receding Doors
Hinged Override Test for Vertically Hinged Doors
Vertical Receding Doors Strength Test
Horizontal Receding Doors Strength Test
Wear and Fatigue Tests for Hinged and Horizontal Sliding, and Tambour Doors
Wear and Fatigue Test for Vertical Receding Door
Wear and Fatigue Test for Horizontal Receding Door
Vertical and Horizontal Receding Door Out Stop Test - Cyclic Impact & Durability
Slam Closed Test for Vertically Hinged and Vertically Receding Doors
Drop Test for Horizontally Hinged and Horizontally Receding Doors - Cyclic
Slam Test for Doors Which Free Fall Open or Closed
Slam Open and Closed Test for Door Which Do Not Free Fall
Door Latch Test
Clothes Rails Static Loading Test
Swivel Cycle Test for Television / Video Display Terminal Surface
Pull Force Test

ANSI/BIFMA X6.1 Stability Tests
Backrest Strength Test - Static
Backrest Durability Test - Cyclic
Drop Test - Dynamic
Seat Static Load Test for Chair Desks and Fixed-Tablet Arm Chairs
Seating Durability Tests - Cyclic
Arm Strength Test - Vertical – Static
Arm Strength Test - Horizontal - Static
Arm Durability Test - Angular - Cyclic
Caster/Chair Base Durability Test - Cyclic
Durability Test for Convertible Bench Tables with Casters
Leg Strength Tests
Structural Member Strength Test
Swivel Test - Cyclic
Tablet Arm Test - Front Stability
Tablet Arm Static Load Test
Tablet Arm Load Ease Test - Cyclic
Chair Desk and Table Top Horizontal Surface Vertical Load Tests
Chair Desk and Convertible Bench Table Top Load Ease Test - Cyclic
Static Loading of Storage (Backpack) Hooks & Unit Stability

ANSI/SOHO S6.5 Stability Under Vertical Load Test
Stability Test for Units with Extendible Load-Bearing Elements
Stability Test for Freestanding Pedestal
Horizontal Stability Test for Desk/Tables with Casters
Horizontal Force Stability/Disengagement Test for Tall Units
Vertical Force Stability for Bookcases and Other Units Without Extendible Elements
Horizontal Force Stability for Bookcases and Other Units Without Extendible Elements

ANSI/SOHO S6.5(*cont'd*)

- Distributed Functional Load Test for Individual Surfaces
- Concentrated Functional Load Test for Primary Surfaces
- Distributed Proof Load Test for Individual Surfaces
- Concentrated Proof Load Test for Individual Surfaces
- Unit Strength Test - Static Load
- Extendible Element Proof Load Test
- Top Load Ease Test - Cyclic
- Leg Strength Test – Static
- Horizontal Racking Resistance Tests
- Interlock Tests - Static
- Drop Test
- Force Test for Extendible Element Locks
- Force Test for Door
- Cycle Test for Extendible Elements/Equipment Surfaces Deeper Than Wide
- Cycle Test for Extendible Elements/Equipment Surfaces Wider Than Deep
- Cycle Test for Center/Pencil Drawers
- Extendible Element/Equipment Surface Retention Tests
- Rebound Test
- Keyboard Support and Input Device Support Adjustment Tests
- Strength Test for Vertically Hinged Doors
- Wear and Fatigue Tests for All Hinged Doors
- Slam Open/Closed Test for Vertically Hinged Doors
- Drop Cycle Test for Horizontally Hinged and Horizontally Receding Doors
- Test for Horizontal Receding Doors
- Test for Vertical Receding Doors
- Wear and Fatigue Test
- Slam Open and Closed Test for Doors Which Do Not Free Fall
- Durability Test for Products with Casters – Cyclic Pull Force Test

ANSI/KCMA,
Sections 5, 6, & 7

- Static Loading on Shelves and Bottoms of Cabinets
- Static Loading for Mounted Wall Cabinet
- Base Front Joint Loading
- Impact on Shelves, Cabinet Bottoms and Drawer Bottoms
- Impact on Base Cabinet Front and Door
- Door Racking and Hinge Set
- Door, Door-Holding Devices and Hinge Operation
- Drawer Operation
- Drawer-Closing Impact

CAN/CGSB-44.227,
Section 6.1.1

Work Surface Deflection

CAN/CGSB-44.229,
Section 6.2.4

Work Surface Deflection

CAN/CGSB-44.227,
Section 6.6.1

Surface Deflection For Storage Units

CAN/CGSB-44.229,
Section 6.7.2

Panel Mounted Cabinets and Storage Units Deflection



Test:

Test Method(s):

Mechanical Life Cycling ¹
Up to 1000 lbs.
Up to 60 Cycles Per Minute
Up to 5ft Stroke Length

ANSI/BIFMA X5.1, X5.3, X5.4, X5.5, 5.6, X5.9

Drop Test ¹
500 lbs.
12in Height

ANSI/BIFMA X5.1, X5.3, X5.4, X5.5, 5.6, X5.9

¹ Using customer specifications based on the parameters and test methods listed above.





American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

ADVANCED FURNITURE TESTING - JASPER

Jasper, IN

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 12th day of June 2014.





Peter Abney

President & CEO
For the Accreditation Council
Certificate Number 3668.01
Valid to July 31, 2016

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.