

BenchPro

(Chair Test Report)

BIFMA INTERNATIONAL
General-Purpose Office Chairs – Test
American National Standard for Office Furniture

CHAIR TEST NAME: Base Test -Static.

START DATE: JUNE-18-2013 START HOUR: 12:00

END DATE: JUNE -19-2013 END HOUR: 13:00

Chair tests:

- | | |
|--|--|
| <input type="checkbox"/> Backrest Strength Test – Static
(Type I) | <input type="checkbox"/> Backrest Durability Test – Cyclic
(Type I) |
| <input type="checkbox"/> Backrest Strength Test – Static
(Type II, III) | <input type="checkbox"/> Backrest Durability Test – Cyclic
(Type II, III) |
| <input checked="" type="checkbox"/> Base Test – Static | <input type="checkbox"/> Caster/Chair Base Durability
Test - Cyclic |
| <input type="checkbox"/> Drop Test – Dynamic | <input type="checkbox"/> Leg Straight Test – Front and
Side Application |
| <input type="checkbox"/> Swivel Test – Cyclic | <input type="checkbox"/> Footrest Durability Test –
Vertical - Cyclic |
| <input type="checkbox"/> Tilt Mechanism Test – Cyclic | <input type="checkbox"/> Arm Durability Test - Cyclic |
| <input type="checkbox"/> Seating Durability Test – Cyclic | <input type="checkbox"/> Out Stop Test for chairs with
Manually Adjustable Seat Depth |
| <input type="checkbox"/> Stability tests | <input type="checkbox"/> Tablet Arm Static Load Test |
| <input type="checkbox"/> Arm Strength Test – Vertical – Static | <input type="checkbox"/> Tablet Arm Load Ease Test
Cyclic |
| <input type="checkbox"/> Arm Strength Test – Horizontal – Static | |

Type chair:

☒ Type I - Tilting Chair

____X____ Type II – Fixed seat angle, tilting backrest

____X____ Type III – Fixed seat angle, fixed backrest

Appllicability: These test apply to all type of chair bases.

Purpose of the test:

The purpose of these test is to evaluate the ability of the pedestal base to withstand excessive vertical forces..

Test Setup:

a).- Remove the glides or casters (caster sockets may remain in place), and replace with blocks or supports. Casters systems are recommended for support. The blocks or supports shall be of sufficient height to prevent the center column and /or legs from touching the test platform during the test. Remove the seat support mechanism(s) and height adjustment mechanism (if applicable) from the base. Apply the load to the vertical support column, or test fixture that simulates the taper / base interface.

b).- The base legs shall be allowed to move laterally and the center of the base to move vertically as the force is applied. The blocks or supports shall support the base in a manner and location similar to the original casters / glides and shall not impede the deflection and / or lateral motion during the test. Blocks or supports shall not lessen the severity of the test.

Test Procedures:

- a). A force of 11,120 N (2,500 lbf), shall be applied for 1 minute.
- b). Remove the force.
- c). Apply a second force of 11,120 N (2,500 lbf.) for 1 minute.
- d). Remove the load and evaluate the product in accordance with the acceptable level.

Acceptable Level.

There shall be no sudden and major change in the structural integrity of the base. The center column may not touch the test platform during the load applications.

Conclusion:

All These bases, were favorably passed after to apply the weight (11,120 N) = 80 PSI x 1 min. the nylon, aluminum and chrome bases didn't suffer any structural damage.

The nylon bases were broken until the third try increasing the force to 100 PSI x 1 min.

The aluminum and the chrome bases were not broken even third try with force 100 PSI x 1 min.

Test : PASS

Video: DONE