BenchPro (Test Report)

BIFMA INTERNATIONAL

General-Porpuse Office Chairs – Test American National Standart for Office Furniture

CHAIR TEST NAME: 8. DROP TEST - DYNAMIC	
CHAIR: WNT3-DF, LSN3-F	
START DATE: DIC-04-2013	START HOUR: 15: 20
END DATE: DIC- 04- 2013,	
Chair tests: Backrest Stregth Test – Static (Type I)	Backrest Durability Test – Cyclic (Type I)
Backrest Stregth Test – Static (Type II, III)	Backrest Durability Test – Cyclic (Type II, III)
Base Test – Static	Caster/Chair Base Durability Test - Cyclic
X Drop Test – Dynamic	Leg Straght Test – Front and Side Application
Swivel Test – Cyclic	Footrest Durability Test – Vertical - Cyclic
Tilt Mechanism Test – Cyclic	Arm Durability Test - Cyclic
Seating Durability Test – Cyclic	Out Stop Test for chairs with Manually Adjustable Seat Depth
Stability tests	Tablet Arm Static Load Test
Arm Stregth Test – Vertical – Static	Tablet Arm Load Ease Test Cyclic
Arm Stregth Test – Horizontal – Static	
Type chair:	
X Type I - Tilting Chair	

	Type II – Fixed seat angle, tilting backrest
	Type III – Fixed seat angle, fixed backrest
Apllicabi This test	lity: apply to all chairs types.

Purpose of the test:

The purpose of this test is to evaluate the ability of the chair to withstand heavy and abusive impact forces on the seat.

Test Setup:

- a) The unit shall be placed on a test platform.
- b) For chairs with a seat height adjustment feature, set the adjustment to its highest position. If other adjustable features are available, set these adjustments at normal use conditions. Casters, if present, shall be initially placed at the apparent worst –case position (typically at a position 90 degrees to the base leg).
- c) A test bag as shown in Appendix A or other fixture that gives an equivalent impact shall be attached to a device permitting a free fall to the seating position.
- d) The bag shall be centered side to- side on the seat and shall be positioned not more than 13 mm (0.5 in.) from the most forward surface of the backret during free fall. The bag shall not contact the backrest during the free fall.

Test Procedures:

Functional Load Test

- a) A test bag approximately 400 mm (16 in.) in diameter containing sand and / or shot weighing 102 kg (225 lb) shall be raised 152 mm (6 in.) above the uncompressed seat and released one time.
- b) Remove the bag and evaluate the product in accordance with the acceptance level.
- c) For chairs with seat height adjustment features, set height to its lowest position and repeat a) and b).

Proof Load Test

a) Repeat setup and increase the weight of the test bag to a proof load of 136

kg. (300lb).

b) The test bag shall be raised 152 mm (6 in.) above the uncompressed seat

and released one time.

c) Remove the bag and evaluate the product in accordance with the

acceptance level.

d) For chairs with height adjustments, set seat height to its lowest position and repeat a) through c). A second chair may be used for testing the chair in the

lowest position. Note: If a second chair is used for the proof load test, it

must also be subjected to the functional load impact per (functional load

test), while in its lowest position.

Acceptance Level

Functional Load, There shall be no loss of serviceability.

Proof Load, There shall be no sudden and major change in the structural integrity

of the chair. Loss of serviceability is acceptable.

Conclusion:

The chair didn't loss serviceability, all the chair components looks after of the drop

test., Seat, Cylinder, Back bar, Lever mech., Base and casters.

Test: Pass

Video: Done