

**BenchPro
(Test Report)**

BSI

*The European Standard EN 13150:2001
has the status of a British Standard.*

**Workbenches for laboratories – Dimensions, Safety requirements and test
methods.*

Date: MAY-15-2013__

test: B.3_____

Hour Start:: FIRST PART START AT 7:30 HRS. _/ SECOND PART START
MAY 27 AT 6:30 HRS._____

Hour Finish: FIRST PART END MAY 24-2013,

Type Workbenches:

B.3 –HORIZONTAL FATIGUE TEST

Test Workbenches:

***Anex A (normative)**

- Horizontal Static Load
- Vertical Static Load
- Sustained Vertical Load if Required
- Deflection of Workbench Shelves
- Horizontal Impact Stability
- Vertical Load Stability
- Drop

***Anex B (informative)**

- Vertical Impacted Fatigue Test
- Horizontal Fatigue Test
- Vertical Impact Test

Applicability:

CAN BE USED FOR ALL TYPES OF WORKBENCHES

Purpose of the test: Evaluate the ability of the workbenches to withstand fatigue stresses and wear caused by horizontal forces on the workbench top.

Test Setup: Table B.1. HORIZONTAL FATIGUE,

Parameter: Force=300 newtons...= 5 BAR (72.5 PSI – lb/plg2),

Value = 20,000 Cycles.....

Test Procedures: Restrain the base of the workbench with stops in all directions and at all legs. Place a mass of 50 kg. on the geometric center of the workbench top.

Apply a horizontal force (see A.2.1- Horizontal force application device, capable of applying a gradually increasing horizontal force to the workbench at the height of its top) of the selected magnitude as specified in Table B.1 alternatively at point A and B, on two loading pads. Apply the force for the selected number of cycles (table B.1). Repeat the test at the other corner positions C and D (see B.2).

If the workbench tends to overturn in one direction using the force selected, reduce the horizontal force to the highest value that does not cause overturning. Perform the test using this reduced force in that direction only.

OPINION, Acceptable Level:

The goal test was pass with 60,000 cycles alternatively and load force 300 newtons, and the frame ,legs, and top after the test are on good conditions.

Pass	X
Fail	
Video	X
Photo	X