

**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.*

Test Name: A.3.1. Horizontal Static Load Test.

Start Date: 06/06/13

End Date: 06/10/13

Type Workbenches:

K- Series Workbench 30X60

Test Workbenches:

***Anex A (normative)**

Horizontal Static Load

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:

Parameter: Force = 600 newtons = 5 BAR (72.5 PSI – lb/plg²),

Force = 61kgf = 135 lbf

Value = 10 Times.

Test Procedures:

Restrain the base of the workbench by stops placed at the end at which the test force is first applied.

Apply the force (see A.2.1) as specified in Table 3 by means of the loading pad (see A.2.6) to the edge of the work surface. Begin loading with the force horizontal . If the workbench is just prevented from overturning (see fig.A.3)

Apply the force ten times at point A, first along the longitudinal centerline and then remove it and reapply in ten times at point B in the opposite direction. Leave the stops in position for the reversal the application of the test force.

Repeat the above loading along the transverse centerline of the top in two directions at point C and D.

A.2.1.- Horizontal force application device, capable of applying a gradually increasing horizontal force to the workbench at the height of its top. The device shall be capable of applying the force at the required angle of inclination to the horizontal and shall not hinder any free movement of the work bench.

A.2.6.-Loading Pad, rigid cylindrical object 100mm in diameter, with a flat face and 12 mm. edge radius.

Table 3. A.3.1 Horizontal Static Load, Parameter,

Force in Newtons= 600, (135 lbf)

Results: Applying the force at points A and B the table was moved 3/4", and at points C and D the table was moved 1/8".

Conclusion, Acceptable Level:

72.5 Psi is applied ten times at the center of each edge. The feet are securely attached to the floor and a verified distance of inflection is observed. To pass the test, the components of the bench are inspected and verified to have full integrity and no reduction in functionality.

Pass	X
Fail	
Video	X
Photo	X