

Furntech-AFRDI TEST REPORT No. 14087/1

Tested to various clauses from various Standards and customised methods as listed.

Furntech-AFRDI No: 14087/1
Supplier: Office Portfolio
Supplier Address: 34a Gray Street
Tranmere S.A. 5073
Product Described As: Standesk - OP-MB-700W + Keyboard White
Date of Test: 8 March 2018



Standesk OP-MB-700W + Keyboard White - with twin monitor arm - as tested

INTRODUCTION

The Standesk is a height adjustable keyboard and monitor unit that sits on an office desk top.

The test methods used to test this unit were selected and agreed to by the client and Furntech. This is not a comprehensive evaluation of the unit as no Standard has been developed to cover such units. The methods selected were

appropriate but should not be considered an endorsement due to the limited scope of the testing.

TEST RESULTS

For all testing the Standesk was placed on a typical 2 leg office desk 1800 x 800 mm in size with a 25 mm melamine laminated MDF top.

The height of the office desk was set to 725 mm off the ground. The front of the Standesk keyboard was positioned flush with the front edge of the office desk.

SAFETY

Sharp edges and corners

Based on clause 4.1 of - BS EN 16139:2013 Furniture — Strength, durability and safety — Requirements for non-domestic seating

This Standard is intended for seating, but the safety requirements can be applied to the Standesk as it is a mechanical device with moving parts.

Requirement	Results
4.1 General: The seating shall be so designed as to minimise the risk of injury to the user. All accessible parts (3.1) shall be so designed that physical injury and damage are avoided. This requirement is met when:	
a) accessible corners are rounded or chamfered	Compliance
b) the edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded or chamfered	Compliance
d) all other edges are free from burrs and rounded or chamfered.	Compliance
e) the ends of hollow components are closed or capped.	Compliance
Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	Compliance

Pinch points / shear points / squeeze points

Based on clause 4.2.2 of - BS EN 16139:2013 Furniture — Strength, durability and safety — Requirements for non-domestic seating

3.3 shear and squeeze points shear and squeeze points exist if the distance between two accessible parts moving relatively to each other is less than 25 mm and more than 8 mm for adults and children older than 3 years in any position during movement

4.2 Shear and squeeze points	
4.2.1 Shear and squeeze points when setting up and folding	Compliance
4.2.2 Shear and squeeze points under influence of powered mechanism	See Note 1 Below
4.2.3 Shear and squeeze points during use	Compliance See Note 2 Below

STABILITY

Vertical Stability

Custom Test.

50 kg (the unit's specified maximum load) placed in any position on the unit's horizontal surfaces.

The Standesk was set to its maximum height. A 300 mm diameter loading pad was used to hold the loads which were divided into 45 kg on the main desk surface and 5 kg on the keyboard platform. The loading pad was positioned in various places on the horizontal surfaces without overhanging the surface.

Vertical Stability	
45 kg any position on main desk top – Right hand side, centre and left hand side. 5 kg any position on keyboard platform – Right hand side, centre and left hand side	Compliance

Note 1 – A squeeze point does exist under the keyboard if you lower the unit under power to its lowest setting, but it is very unlikely that this would cause serious injury.

Note 2 – The chance of injury during normal operation is be considered extremely unlikely when the unit is operated single handed. You would need to deliberately place your other hand under the back of the keyboard platform when lowering the unit, which is an unnatural action considering the placement of the up/down operating buttons. The bracket that holds the up/down operating buttons offers good shielding from such squeeze points.

Horizontal Stability

Basketball impact test as per - AS/NZS 4610.3:1999 - Appendix O. Standesk set to maximum height.

When tested in accordance with Appendix O a table shall not overturn.

Requirement	Results
Horizontal Stability - 5.2 Horizontal impact test	
Unloaded – impact on front edge of keyboard platform	Compliance
20 kg evenly distributed on the twin monitor arm - impact on front edge of keyboard platform	Compliance
Unloaded – impact on side of desk main surface	Compliance

DIMENSIONS

Height adjustment range when placed on top of an office desk with the desk top surface set to 725 mm above the floor.

Standesk keyboard platform range – 743 mm to 1178 mm from the floor

Standesk main desk surface range – 843 mm to 1278 mm from the floor

STRENGTH

Manufacturer's specifications for the Standesk - OP-MB-700W + Keyboard:

Key board platform = 5 kg

2 monitor bracket = 10 kg per bracket

Total Load Capacity = 50 kg

Custom Test

No structural breakage deformation or loss of serviceability shall result from the application of the functional loads.

Any deflection of the work surface resulting from application of the functional load shall not exceed 1% of its length, and any residual deflection of the work surface after testing shall not exceed 10 mm.

No failure that would cause personal injury shall result from the application of the proof loads.

Requirement	Results
Functional Load 50 kg distributed – 45 kg on the main desk surface and 5 kg on keyboard platform. Deflection to be less than 1% of the main desk top length. Test duration 1 hour.	Compliance
Proof Load 100 kg distributed – 90 kg on the main desk surface and 10 kg on keyboard platform. Test duration 15 minutes.	Compliance

DURABILITY

Based on AFRDI Standard 126 Monitor Arms for Visual Display Units.

Clause 2.4.2 - Vertical Fatigue test (also known as a Top Load Cyclic test). This test was conducted at – Test Level 3 – 30,000 cycles. A vertical downwards force of 100 N (= 10 kg – or 2 times the keyboard rating) was applied to the centre of the keyboard platform through a 75 mm loading pad for 2 seconds then released. The downwards force was applied at a rate of approximately 15 cycles per minute.

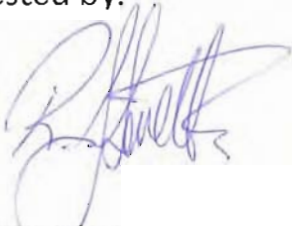
The unit was set to its maximum adjustable height.

A static load of 20 kg was distributed on the main desk surface during this test.

No structural damage, deformation or loss of serviceability shall result from the application of the test load.

Vertical Fatigue Test (Top Load Cyclic test) 30,000 cycles – 100 N	Compliance
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Tested by:



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Date:

28 March 2018

Checked by:



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