

Handled by, department
Bengt-Åke Andersson
Wood Technology
+46 10 516 54 34, bengt-ake.andersson@sp.se

Johanson Design AB
Hässelholmsvägen 28
285 35 MARKARYD

Testing of X-bone table with tabletop basic 700x700 mm (1 appendix)

1 Introduction

On behalf of Johanson Design AB, a X-bone table with tabletop basic 700x700 mm has been tested by SP in accordance with SS-EN 1730:2000 the test is consistent with the requirements of FMV¹ for furniture for contract use, conference and worktable dated 2007.12.17.

2 Test specimen

Figure 1 X-bone table with tabletop basic 700x700 mm



Dimensions of the table (WxLxH):	700x700x720 mm
Table top:	Laminate 25 mm
Frame:	Steel column Ø51 mm
Feet:	Steel tube Ø16 and 10 mm

The test specimen was selected by the client and arrived at SP 2009.10.21.

¹Swedish Defence Material Administration

SP Technical Research Institute of Sweden

Postal address
SP
Box 857
SE-501 15 Borås
SWEDEN

Office location
Västerås
Brinellgatan 4
SE-504 62 Borås
SWEDEN

Phone / Fax / E-mail
+46 10 516 50 00
+46 33 13 55 02
info@sp.se

Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

3 Test methods and test procedure

The test was performed according to SS-EN 1730:2000 Domestic furniture - Tables - Test methods for determination of strength, durability and stability

Before testing the test specimen was conditioned for one week in a climate of $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ relative humidity, in accordance with the standard. Testing was carried out in this climate.

The test methods are explained in Appendix 1, and comply with the requirements of FMV for tables for contact use, dated 2007.12.17.

The test was carried out over the period 2009.11.09 – 27.

4 Results

The result is reported in Appendix 1.

At the end of the test, the tested piece did not exhibit any faults, fractures or other damage judged to affect its safety, function or appearance when used in accordance with SS-ENV 12521.

The requirements regarding strength and durability have been met.

The test results apply solely to the specimen tested.

SP Technical Research Institute of Sweden
Wood Technology



Bertil Johansson
Technical Manager



Bengt-Åke Andersson
Technical Officer

Appendix

Test record (3 pages)

This is a translation from the Swedish original document. In the event of any dispute as to the content of the document, the Swedish text shall take precedence

Appendix 1

Table

1.	General requirements	Test	References: Requirements
1.1	Components or parts accessible during normal use shall have no burrs, sharp edges or sharp points.	√	ENV 12521. Clause 4.1
1.2	There shall be no open ended tubes.	-	ENV 12521. Clause 4.1
1.3	Shear and squeeze points. The distance between moving parts accessible during normal use shall be kept to ≤ 8 mm or ≥ 25 mm in any position during movement.	-	ENV 12521. Clause 4.2
1.3.1	Shear and squeeze points when setting up and folding. The requirements in 1.3 are not applicable when shear and squeeze points are created only when setting up and folding.	-	ENV 12521. Clause 4.2.1
1.3.2	Shear and squeeze points under the influence of powered mechanisms. The requirements in 1.3 are applicable to all moving parts created by parts operated by powered mechanisms, including springs.	-	ENV 12521. Clause 4.2.2
1.3.3	Shear and squeeze points under body weight are not acceptable if unintentional movement of the parts may occur so that a hazard is created by the weight of the user.	-	ENV 12521. Clause 4.2.3
2.	Stability	Test	References: Requirements / Test method
	The table shall not overturn. The stability requirements shall be fulfilled before and after the tests specified in clause 3 – Safety and Strength and Durability (performance).	√	EN 1730. Clause 6.7

Table

Appendix 1

3.	Safety, strength and durability (performance)	Cycles	Forces / loads	Test	References: Requirements / Test methods
3.1	<u>Horizontal static load test</u>				EN 1730. Clause 6.2
	Direction A-B	10	600 N	√ ¹	
	Direction D-C	10	300 N	√ ²	
3.2	<u>Vertical static load test</u>				EN 1730. Clause 6.3
	Main surface	10	1250 N	√ ³	
	Ancillary surface	10	350 N	-	
3.3	<u>Vertical fatigue test</u> Concerns pedestal and cantilever tables only.	10 000	500 N	√	EN 1730. Clause 6.5
3.4	<u>Horizontal fatigue test</u>	10 000	450 N	√	EN 1730. Clause 6.4
3.5	<u>Drop test</u>	5	300 mm	√	EN 527-2. Clause 4.2 EN 527-3. Clause 5.6

√ The test has been completed without any remarks

⊗ The requirement is not fulfilled

¹ Movement under load was measured to 7 mm² Movement under load was measured to 4 mm³ Movements under load was measured to 15 mm



ASSESSMENT

Date
2009.12.18

Reference
P906176V

Page
1 (1)

Handled by, department
Bengt-Åke Andersson
Wood Technology
+46 10 516 54 34, bengt-ake.andersson@sp.se

Johanson Design AB
Hässelholmsvägen 28
285 35 MARKARYD

Statement regarding X-bone table with basic tabletop

1 Introduction

On behalf of Johanson Design AB, SP has carried out an assessment on X-bone table with the height of 720 mm and fitted with following tabletops Ø75, 60x70 och 70x70. The assessment is made in accordance with SS-EN 1730:2000, and is consistent with the requirements of FMV¹ for furniture for contract use, conference and worktable dated 2007.12.17.

2 Assessment

Based on SP report P906176S, dated 2009.12.18 X-bone table with the height of 720 mm and fitted with following tabletops Ø75, 60x70 och 70x70 are assessed to meet the requirements for strength and stability.

This implies that design, material qualities, dimensions and other characteristics, which may affect the test results, are identical to the tested pieces.

SP Technical Research Institute of Sweden Wood Technology

Bertil Johansson
Technical Manager

Bengt-Åke Andersson
Technical Officer

This is a translation from the Swedish original document. In the event of any dispute as to the content of the document, the Swedish text shall take precedence.

¹ Swedish Defence Material Administration

SP Technical Research Institute of Sweden

Postal address
SP
Box 857
SE-501 15 Borås
SWEDEN

Office location
Västeråsen
Brinellgatan 4
SE-504 62 Borås
SWEDEN

Phone / Fax / E-mail
+46 10 516 50 00
+46 33 13 55 02
info@sp.se

This document may not be reproduced other than in full, except with the prior written approval of SP.