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## Testing of Quickly Basic table (1 appendix)

### 1 Introduction

On the instructions of Lammhults Möbel AB, a Quickly Basic table has been tested at SP in accordance with the requirements of Möbelfakta requirement specification 4.2.2 tables for contract use issue 0202.

### 2 Test object

According to the client the test object consisted of, with the dimensions 1800 x 700 mm, height 720 mm:

Top: MDF particle board 20 mm, compact laminate, plastic edges of ABS plastic  
Legs: Steel tube Ø30 mm, chromium plated  
Function: Folding legs

The test object was selected by the party commissioning the test, and arrived at SP on 14 December 2004.

### 3 Test methods and performance of tests

Before testing commenced, the test object was conditioned for 1 week in a climate of 23° C ± 2° C and 50 % ± 5 % relative humidity as specified in the standards. All testing were carried out under these climatic conditions.

The test methods are shown in the appendix, according to Möbelfakta requirement specification 4.2.2 tables for contract use issue 0202.

The test was carried out 21 – 28 December 2004.

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## 4 Result

The result is reported in Appendix 1.

After carrying out the tests, the tested piece of furniture did not demonstrate any ruptures, fractures or other damages that can affect the safe use of the article as per SS-ENV 12521.

After carrying out the tests, the tested piece of furniture did not demonstrate any damages or deformations that can affect the durability or appearance.

This test result only applies to the tested sample.

### SP Swedish National Testing and Research Institute Building Technology and Mechanics

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### Appendix

1. Test record dated 17-01-2005 (4 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.

# 4 TEST RECORD FOR APPLICATION FOR MÖBELFAKTA CERTIFICATE

## 4.2 Contract use

1 (4)

### 4.2.2 Tables

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Appendix 1

Translation 27 January 2006

1.	General requirements	Safety	Strength/ Durability (performance)	References: Requirements
1.1	Components or parts accessible during normal use shall have no burrs, sharp edges or sharp points.	x ✓	-	ENV 12521. Clause 4.1
1.2	There shall be no open ended tubes.	x ✓	-	ENV 12521. Clause 4.1
1.3	Shear and squeeze points. The distance between moving parts accessible during normal use shall be kept to $\leq 8$ mm or $\geq 25$ mm in any position during movement.	x	-	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.	x ✓	-	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.	x	-	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.	x	-	ENV 12521. Clause 4.2.3
1.4	Shear and squeeze points shall not be created by normal movements and actions, e.g. to move the table by lifting or adjusting it. All lubricated parts shall, when in normal use, be designed to protect from contact with the lubricant.	-	x ✓	Möbelfakta <sup>2)</sup>

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## 4 Test record for application for Möbelfakta certificate

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### 4.2.2 Contract use - Tables

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Appendix 1

	Cont. General requirements	Safety	Strength/ Durability (performance)	References: Requirements
1.5	Knock-down furniture / assembly instructions. Parts or components being parts of a knock-down furniture shall be so prepared that the assembly can be done without any difficulties and in a reliable way. When the assembly requires an instruction it shall be easy to understand and be instructive. The instruction shall by a list, a diagram or in an other way make it possible to control that all parts or components are supplied. The instructions shall be provided in the official language(s) of the country where the product is sold.	-	x	Möbelfakta <sup>2)</sup>

	Stability	Safety	Strength / Durability (performance)	References: Requirements / Test method
2.	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).	x	-	Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.7
2.1	Main surface V1 = 200 N V2 = 400 N	x	-	
2.2	Ancillary surface V1 = 100 N V2 = 200 N	x	-	

## 4 Test record for application for Möbelfakta certificate

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### 4.2.2 Contract use - Tables

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Appendix 1

3.	Safety, strength and durability (performance)	Cycles	Forces / loads (Normal height table) *	Forces / loads (Low table)**	Safety	Strength / Durability (performance)	References: Requirements / Test methods
3.1	<u>Horizontal static load test</u>						Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.2
	Direction A-B	10	600 N	400 N	x ✓	- 1)	
	Direction D-C	10	300 N	200 N	x ✓	- 1)	
3.2	<u>Vertical static load test</u>						Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.3
	Main surface	10	1250 N	1250 N	x ✓	- 1)	
	Ancillary surface	10	350 N	350 N	x	- 1)	
3.3	<u>Vertical fatigue test</u> Concerns pedestal and cantilever tables only.	10 000	500 N	500 N	x ✓	- 1)	Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.5
3.4	<u>Horizontal fatigue test</u>	10 000	450 N	300 N	x ✓ <sup>3</sup>	- 1)	Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.4
3.5	<u>Drop test</u>	5	300 mm	200 mm	-	x ✓	Möbelfakta <sup>2)</sup> / EN 1730. Clause 6.8

\* In accordance with ENV 12521. Clause.3: A normal height table has a height of  $\geq 60$  cm.\*\* In accordance with ENV 12521. Clause.3: A low table has a height of  $< 60$  cm.

✓ The test has been completed without any remarks

<sup>3</sup> The horizontal force 450 N has been reduced to 300 N in accordance with the standard on that account the table is overturn

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## 4 Test record for application for Möbelfakta certificate

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### 4.2.2 Contract use - Tables

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Appendix 1

⊗ The requirement is not fulfilled

- 1) When assessing the test results the "Criteria of defects" in accordance with "Strength and durability (performance)", below, shall also be considered.
- 2) The requirement is given by Möbelfakta as no requirement is given in other standards e.g. CEN- or ISO standards.

#### Results:

##### **Safety:**

After carrying out the tests, the tested piece of furniture shall not demonstrate any ruptures, fractures or other damage that can affect the safe use of the article as per ENV 12521. This also implies that after the testing there shall be no burrs, sharp edges or sharp points. See clause 1.1.

##### **Strength and durability (performance):**

After carrying out the tests the tested piece of furniture did not demonstrate any ruptures, fractures or other damage that can affect the durability or appearance as:

- Fracture of any member, component or joint.
- Loosening of any joint intended to be rigid, which can be demonstrated by hand pressure.
- Deformation or wear of any part or component such that it's functioning is impaired.
- Loosening of any means of fixing components.
- Any movable part that no longer open or close freely, or catches that do not operate properly.

##### **Normative references:**

EN 1730:2000. Domestic furniture – Tables – Test methods for the determination of strength, durability and stability.  
 ENV 12521:2000. Domestic furniture – Tables – Mechanical and structural safety requirements.