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## Testing of Ramo table

(1 appendix)

### Summary

Ramo table meets the requirements for strength and safety according to EN 15372:2008 level 2.

### 1 Introduction

On behalf of Lundbergs Möbler AB, a Ramo table has been tested by SP in accordance with EN 15372:2008 Furniture - Strength, durability and safety - Requirements for non-domestic tables, level 2.

### 2 Test specimen



**Figure 1 Ramo table**

Dimension: W=199 cm, D=107 cm, H=72 cm  
Table top: Total thickness=24 mm, plywood covered with linoleum, a border of solid ash  
Frame/leg: Solid ash  
Other info: Steel construction to fix table top to frame  
Table top reinforced with two angle iron underneath  
Mass: 55 kg

The test specimen was selected by the customer and arrived at SP 2014-12-17.

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### 3 Test methods and test procedure

The test was carried out according to EN 15372:2008 Furniture - Strength, durability and safety - Requirements for non-domestic tables, level 2.

The test was carried out in climate  $23 \pm 2^\circ \text{C}$  and  $50 \pm 5\%$  relative humidity.

The test methods are explained in table 1-3.

The test was carried out 2015-01-13 – 2015-01-20.

### 4 Results

Table 1

1.	General requirements	EN 15372	Results
1.1.1	Edges of table tops which are directly in contact with the user are rounded or chamfered, and all other edges accessible during intended use are free from burrs and/or sharp edges.	5.1	Passed
1.1.2	Open ends of hollow component shall be closed or capped.	5.1	N/A
1.1.3	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	5.1	N/A
1.1.4	Load bearing part shall not come loose unintentionally.	5.1	Passed
1.1.5	All parts which are lubricated shall be designed to protect users from lubricant stains when in normal use.	5.1	N/A
1.1.6	The distance between moving parts accessible during normal use shall be kept to $\leq 7 \text{ mm}$ or $\geq 18 \text{ mm}$ in any position during movement <sup>1</sup>	5.2.1 3.3	N/A
1.1.7	There shall be no shear and squeeze points created by parts of the table operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.	5.2.2	N/A
1.1.8	There shall be no shear and squeeze points created by forces applied during normal use, There shall be no shear and squeeze points if a hazard is created by the user during normal movements and actions, e.g. attempting to move the table.	5.2.3	Passed

<sup>1</sup>The requirements in 1.1.6 are not applicable when shear and squeeze points are created only when setting up and folding.

Table 2

2.	Stability	EN 1730	Results
2.	The table shall not overturn. The stability requirements shall be fulfilled before and after the tests specified in table 3 – Strength, Durability	6.7	Passed

**Table 3**

<b>3</b>	<b>Strength, durability</b>	<b>EN 1730</b>	<b>Cycles</b>	<b>Load</b>	<b>Results</b>
3.1	Horizontal static load test - high tables > 600 mm - low tables < 600 mm	6.2	10 10	400 N 200 N	Passed N/A
3.2	Vertical static load test - main surface - ancillary surface	6.3	10 10	1250 N 200 N	Passed N/A
3.3	Horizontal fatigue test	6.4	15 000	300 N	Passed
3.4	Vertical fatigue test (For cantilever or pedestal tables)	6.5	15 000	300 N	Passed
3.5	Vertical impact test (for tables without glass)	6.6	10	180 mm	Passed
3.6	Vertical impact test -for tables with safety glass -for tables with other glass	6.6	10 10	180 mm 240 mm	N/A N/A
3.7	Drop test (for tables weighting more than 20 kg) -for tables without glass -for tables with glass	<i>EN 15372 Annex A</i>	5 5	100 mm 50 mm	Passed N/A

## 5 Conclusion

At the end of the test, the tested piece did not exhibit any faults, fractures or other damage judged to affect its safety and functions when used in accordance with EN 15372:2008.

The test results apply solely to the specimen tested.

### SP Technical Research Institute of Sweden Wood Technology

Performed by

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## Appendix

1. Pictures (1 page)

## Appendix 1

### Pictures



**Figure 1** Long side



**Figure 2** Short side



**Figure 3** Underneath



**Figure 4** Steel construction