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Testing of Stay table

Summary

Stay table meet the requirements for strength and safety according to EN 15372:2008, level 2.

1 Introduction

On behalf of Johanson Design AB, a Stay 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 object



Figure 1 Stay table

Dimensions: H=720 mm, Ø1000 mm
Tabletop: Lacquered particleboard thickness 25mm, plastic lipping
Legs: Chromed column Ø54 mm, foot plate Ø500 mm

The test object was selected by the client and arrived at SP 2011-12-12.

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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 2011-12-20 – 2012-02-06.

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	√
1.1.2	Open ends of hollow component shall be closed or capped.	5.1	
1.1.3	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	5.1	
1.1.4	Load bearing part shall not come loose unintentionally.	5.1	√
1.1.5	All parts which are lubricated shall be designed to protect users from lubricant stains when in normal use.	5.1	
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.	5.2.1 3.3	
1.1.7	The requirements in 1.1.6 are not applicable when shear and squeeze points are created only when setting up and folding.	5.2.1	
1.1.8	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	
1.1.9	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	

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	√

Table 3

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

√ The test has been completed without any remarks

⊗ The requirement is not fulfilled

- Test is not relevant / not tested

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, function or appearance 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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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.