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Testing of Wing shelf, article nr. 67410

(1 appendix)

Summary

Wing shelf meet the requirements for strength and security according to EN 14073-2:2004 and EN 14074:2004.

1 Introduction

On behalf of Hyllteknik AB, a Wing shelf has been tested at SP in accordance with EN 14073-2:2004 Office furniture – Storage furniture – Part 2: Safety requirements and EN 14074:2004 Office furniture – Tables and desks and storage furniture – Test methods for the determination of strength and durability of moving parts.

2 Test specimen



Figure 1 Wing shelf

Dimensions W=1000 mm, D=420 mm, H=120 mm
Shelf: In metal.
Functions: -
Other info: Attached to wall with 3 hooks in each end

The test specimen was selected by the customer and arrived at 2014-03-12.

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3 Test methods and test procedure

Standards and methods which is the basis for the tests:

EN 14073–3:2004 Office furniture – Storage furniture Part 3: Test methods for the determination of stability and strength of the structure.

EN 14073–2:2004 Office furniture – Storage furniture Part 2: Safety requirements.

EN 14074:2004 Office furniture – Tables and desks and storage furniture – Test methods for the determination of strength and durability of moving parts.

Tests were carried out in $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ RH. The test methods are explained in table 1-3.

The test was carried out 2014-04-15 – 2014-04-30.

4 Results

Table 1

1.	General requirements	EN 14073	Req. fulfilled
1.1	Accessible edges and corners shall be free from burrs and rounded or chamfered. There shall be no open ended tubes.	3.4	Passed
1.2	All moveable parts accessible during normal use shall have safety distances in any position during movement of ≤ 8 mm or ≥ 25 mm. This applies to any two elements moving relatively to each other, with the exception of doors, flaps and extension elements. The safety distance also apply to the distance between handles and other parts.	3.4	N/A
1.3	Adjustable parts shall be such as to prevent in advertent operation or release.	3.4	Passed
1.4	Vertically sliding roll fronts shall not close by themselves from any position higher than 200 mm measured from the closed position.	3.4	N/A
1.5	Extension elements shall have effective open stops. They shall resist being pulled out of the structure once by a horizontal force of 200 N applied to the handle of the loaded extension element.	3.4	N/A

Table 2

2.	Test (structure)	EN 14073	Cycles	Loading	Req. fulfilled
2.1	Strength of unit	5.2	10	350 N	N/A
2.2	Pull out of shelves	5.3.1		20 N (max)	Passed
2.3	Strength of shelf supports	5.3.2	10	2,5 kg	Passed
2.4	Strength of top surfaces	5.4	10	1 000 N	N/A
2.5	Stability (unloaded)	5.5.1			N/A

2.	Test (structure)	EN 14073	Cycles	Loading	Req. fulfilled
2.6	Stability (loaded)	5.5.2			N/A
2.7	Dislodgment of screen and wall hanging cabinets and shelves	5.6.2		100 N	Passed
2.8	Strength of screen and wall attachment devices	5.6.4		According table 1	Passed
2.9	Floor standing unit attached to the building	5.7		200 N	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 14073-2:2004 and EN 14074:2004.

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 Wing shelf attached on wall rails (Article nr. 11000)