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Testing of an archive storage shelf

1 Introduction

Commissioned by Eurobib AB, an archive storage shelf was submitted to SP for a safety and durability test. Tests were carried out in accordance with FMV requirements for archive-shelves and cabinet, dated 2009.06.15.

2 Test sample

Figure 1 Test sample



Eurobib Slimline

Dimensions: 1160x2110x360 mm

Frame: Fiberboard 22 mm beech veneer, frame support in steel 30x20 mm

Shelves: Fiberboard 22 mm (1050x300 mm)

The test sample was provided by the customer and arrived at SP 2009.09.15.

3 Test method and execution

Testing was carried out according to:

- SS-EN 14073-3:2004 Office furniture - Storage furniture - Part 3: Test methods for the determination of stability and strength of the structure.
- SS-EN 14073-2:2004 Office furniture - Storage furniture - Part 2: Safety requirements.
- SS-EN 14074:2004 Office furniture - Tables and desks and storage furniture - Test methods for the determination of strength and durability of moving par.
- ISO 7170:2005 Furniture -- Storage units -- Determination of strength and durability.
- ISO 7171:1988 Furniture - Storage units - Determination of stability.

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The test methods are explained in table 1.

The test was carried out over the period 2009.09.23 – 10.05.

4 Results

Table 1 Test record

Test	Reference	Commentary	Results
Vertical static strength of extension elements	SS-EN 14074:2004 Clause.6.2.1		–
Durability test of extension elements	SS-EN 14074:2004 Clause.6.2.2		–
Slam open of extension elements	SS-EN 14074:2004 Clause.6.2.3		–
Interlock test	SS-EN 14074:2004 Clause.6.2.4		–
Vertical load on doors	SS-EN 14074:2004 Clause.6.3.1		–
Horizontal static force on open door	SS-EN 14074:2004 Clause.6.3.2		–
Durability test on hinged and pivoted doors	SS-EN 14074:2004 Clause.6.3.3		–
Durability test of sliding doors and horizontal roll fronts	SS-EN 14074:2004 Clause.6.4.1		–
Slam shut/open of sliding doors and horizontal roll fronts	SS-EN 14074:2004 Clause.6.4.2		–
Durability of vertical roll front	SS-EN 14074:2004 Clause.6.5.1		–
Strength of flaps	SS-EN 14074:2004 Clause.6.6.1		–
Durability of flaps	SS-EN 14074:2004 Clause.6.6.2		–
Stability	ISO 7171:1988	Stability was measured with 6 shelves fitted. EN 14073-3 Clause. 5.3.2	√
Strength of unit	SS-EN 14073-3 Clause.5.2		√
Pull out of shelves	SS-EN 14073-3 Clause.5.3.1		√
Strength of shelf supports	SS-EN 14073-3 Clause.5.3.2	2,5 kg loading pad	√
Strength of top surfaces	SS-EN 14073-3 Clause.5.4		–
Dislodgment of screen and wall hanging cabinets and shelves	SS-EN 14073-3 Clause.5.6.2		–
Strength of screen and wall attachment devices (1 week)	SS-EN 14073-3 Clause.5.6.4		–

Test	Referene	Commentary Results	
Floor standing unit attached to the building	SS-EN 14073-3 Clause.5.7		–
Deflection of shelves (1 week)	ISO 7170:2005	Deflection 2,9 mm Requirement < 5,25 mm	√

- √ The test has been completed without any remarks
- ⊗ The requirement is not fulfilled
- Not applicable

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 or function when used.

The safety and durability requirement according to FMV has been met.

The test results refer solely to the sample tested.

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