



Test Report

Revision 2

Report No.: 802924-2-3

Page 1 of 1

Mms/jjoh/hbs
Report no.: 802924
No. of appendices: 2

Assignor: String Furniture AB
Limhamnsvägen 110
SE-216 13 Limhamn

Subject: Model: Cabinet with mirror doors w78/d20/h37, it's compatible with the following panels:
Plex panel 50x20cm
Plex panel 70x20cm
Wall panel 50x20cm
Wall panel 75x20cm

Type:	Storage Unit				
Length:	780 mm	Width:	200 mm	Height:	370 mm
Materials:	MDF, particleboard, glass				

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 03-04-2018.

Method: **EN 16121:2017+A1:2017** Non-domestic storage furniture – Requirements for safety, strength, durability and stability – Test severity 1

EN 16122:2012 Domestic and non-domestic storage furniture – Test method for the determination of strength, durability and stability

Period: The testing was carried out from 04-04-2018 to 24-04-2018.

Result: Model Cabinet with Mirror Doors w78/d20/h37 fulfils the requirements of EN 16121:2017+A1:2017 and EN 16122:2012.

Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Note: Rev 1 Text added to Subject, page 1
Rev 2 Depth of the cabinet changed from 300 mm to 200 mm

Date/place: 11-06-2018, Danish Technological Institute, Wood and Biomaterials, Taastrup
Replaces report dated 06-06-2018

Signature: Test responsible

Test responsible



TEST Reg.no. 2

Order no. 802924-2-4 rev 2
Appendix 1
Page 1 of 1
Initials mms/jjoh/hbs

Testing of Model: Cabinet with Sliding Doors w78/d20/h37

EN 16121:2013

5. Safety Requirements

The tests contained are only considered to affect the safety when:

- the height of the centre of gravity of the unit, or any part, is >650 mm above the floor and the total mass is >10 kg or
- when the potential energy of the unit or any part is >65 Nm and the height of the centre of gravity of the unit, or any part, is ≤650 mm

Table 4 – Safety Tests

Test no.	Test	Reference EN 16122:2012	Loading	Requirement	Result
5.7.1.1	Static load test for tops and bottoms	6.2.2	Force, N Cycles	750 10	Passed
5.7.1.2	Shelf retention test – horizontal outward	6.1.2	Force, N	50% of unloaded shelf weight	Passed
5.7.1.3	Shelf retention test – vertical downward	6.1.3	Force, N	100	Passed
5.7.1.4	Strength of shelf supports	6.1.5	Cycles Mass per unit area, kg/dm ² Steel impact plate EN 16122:2012. Table 1	10 0.65 1	Passed
5.7.1.5	Vertical load on pivoted doors	7.1.2	Mass, kg 10 cycles	30	N/A
5.7.1.6	Horizontal load on pivoted doors ^a	7.1.3	Force, N 10 cycles	60	N/A
5.7.1.7	Strength of bottom-hinged flaps	7.3.1	Force, N Cycles	200 10	N/A
5.7.1.8	Strength of extension elements ^b	7.5.2	Force, N Cycles	200 10	N/A
5.7.1.9	Slam shut and open of extension elements ^c	7.5.4	Velocity, m/s at calibration points Slam open 5 kg Slam shut 35 kg Factor K Mass in drawer	1.30 1.00 2.5 See table 1	N/A
5.7.1.10	Interlock test	7.5.6	Force, N Cycles	200 10	N/A
5.7.1.11	Test for structure and underframes	6.4.1	Force, N Cycles	350 10	N/A
5.7.1.12	Test of unit with castors or wheels ^d	6.4.3	Cycles	2.000	N/A
5.7.1.13	Overload test	10.1.3	Mass per unit area, kg/dm ³	2.5	Passed
5.7.1.14	Dislodgement test	10.1.4	Force, N	100	N/A
5.7.1.15	Units supported by the floor	10.2	Force, N	200	Passed
5.7.2	Structural safety requirements				
	a) There are no fractures of any member, joint or component				Passed
	b) Units attached to the structure of the building shall remain attached and carry the test load				Passed
	c) The storage unit fulfils the stability requirements (5.6)				N/A

^a This test shall only be applied to doors with an opening angle less than or equal to 135°
^b The extension element shall be loaded in accordance with Table 1
^c For safety tests only the slam open test shall be performed. Table 5 contains requirements for slam shut test
^d This test shall be performed on a horizontal, smooth steel surface
N/A Not applicable

Order no. 802924-2-4 rev 2
Appendix 1
Page 2 of 2
Initials mms/jjoh/hbs

Testing of Model: Cabinet with Sliding Doors w78/d20/h37

Test no.	Test	Reference EN 14072:2003	Loading	Requirement	Result
5.5	Vertical glass components	Clause 5	Clauses 4.4, 4.7	Drop height 70 mm	Passed

Order no. 802924-2-4 rev 2
Appendix 1
Page 3 of 3
Initials mms/jjoh/hbs

Testing of Model: Cabinet with Sliding Doors w78/d20/h37

5.6 Stability

The requirements for stability only apply to units, where the height to the top of the unit is 650 mm or more above the floor level, and when the potential energy, exceeds the value 65.

Where specified, the unit shall be loaded in accordance with the loads specified in Table 2. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 0.5, but the load shall not exceed the value calculated using Table 2.

Table 3 – Stability Tests

Test no.	Test	Reference EN 16122:2012	Loading	Requirement	Result
5.6.1	Doors, extension elements and flaps closed, all storage units unloaded – units that are, or can be, adjusted to a height of 1000 mm or less	11.2.1	Vertical force, N	750	N/A
5.6.2	Doors, extension elements and flaps closed, all storage units unloaded – units that are, or can be, adjusted to a height of more than 1000 mm or less	11.2.2	Vertical force, N Outward force, N	350 50	N/A
5.6.3	All storage areas unloaded and all doors, extension elements and flaps open	11.4.1	-	-	N/A
5.6.4	All storage areas unloaded with overturning load	11.4.2	Vertical force, N	100	N/A
5.6.5	All storage areas loaded with overturning load	11.4.3	Vertical force, N	20% of total mass (3.5) of the unit but not greater than 300 N	N/A
5.6.6	Doors, extension elements and flaps closed and locked	11.5	Outward force, N	100	N/A
5.6.7	Dynamic stability test for units with castors ^a	11.6	-	-	N/A

^a The test shall be carried out in accordance with EN 16122:2012, 11.6 except that the stops shall be 12 mm high with square edges
N/A Not applicable

Order no. 802924-2-4 rev 2
Appendix 1
Page 4 of 4
Initials mms/jjoh/hbs

Testing of Model: Cabinet with Sliding Doors w78/d20/h37

6. Strength and Durability

Table 5 – Strength and Durability Tests

Test no.	Test	Reference EN 16122:2012	Loading	Test severity		Result
				1	2	
6.1.1	Strength of clothes rail supports	6.3.1	Mass per unit length, kg/dm Time	4.0 1 h	4.0 1 h	N/A
6.1.2	Strength of coat hooks	9.1	Force per hook, N Cycles	40 10	150 10	N/A
6.1.3	Durability of pivoted doors	7.1.5	Cycles	40.000	80.000	N/A
6.1.4	Slam shut test of pivoted doors	7.1.4	Mass, m ₂ , kg Cycles	3 10	4 10	N/A
6.1.5	Slam shut/open of sliding doors and horizontal roll fronts	7.2.2	Mass, m ₂ , kg Cycles	4 10	6 10	N/A
6.1.6	Durability of sliding doors and horizontal roll fronts	7.2.3	Cycles – sliding doors Cycles – roll fronts	20.000 10.000	40.000 20.000	Passed
6.1.7	Durability of flaps	7.3.2	Cycles	10.000	20.000	N/A
6.1.8	Durability of vertical roll fronts	7.4.2	Cycles	10.000	20.000	N/A
6.1.9	Durability of extension elements	7.5.3	Cycles – extension elements Cycles – trays	40.000 20.000	80.000 40.000	N/A
6.1.10	Slam shut and open of extension elements ^a	7.5.4	Velocity, m/s, at calibration points Slam open 5 kg Slam shut 35 kg Factor K	1.30 1.00 2.5	1.30 1.00 2.5	N/A
6.1.11	Displacement of extension element bottoms	7.5.5	Force, N Cycles	60 10	70 10	N/A
6.1.12	Strength test for locking and latching mechanisms for extension elements	7.6.2	Force, N Cycles	200 10	200 10	N/A
6.1.13	Strength test for locking and latching mechanisms for doors, flaps and roll fronts	7.6.3	Force, N Cycles	200 10	200 10	N/A
6.1.14	Drop test	6.4.2	Drop height, mm	-	50	N/A
6.1.15	Deflection of shelves	6.1.4	Mass per unit area, kg/dm ²	1.5	2.0	Passed
6.1.16	Dislodgement of clothes rails	6.3.2	Mass per unit length, kg/dm	5	5	N/A
6.1.17	Drop test for trays	8.3	Drop height, mm Cycles	350 10	700 10	N/A
6.1.18	Sustained load test for trays	8.2	Kg/dm ³	0.65	1.0	N/A
6.2	Strength and durability requirements					
	a) There are no fractures of any member, joint or component					Passed
	b) There are no loosening of joints intended to be rigid					Passed
	c) The storage unit fulfils the stability requirements (5.6)					N/A
	d) The storage unit fulfils its functions after removal of the test loads					Passed
	e) There shall be no deflection of shelves that exceeds 0.5% of the span of the shelf when tested in accordance with test no. 6.1.15 (see Table 5)					Passed

^a For strength and durability tests, only the slam shut test shall be performed. Table 4 contains requirements for slam open test
N/A Not applicable

Report no.: 802924-2-3 rev 2
Appendix: 2
Page: 1 of 1
Initials: Mms/jjoh/hbs

Test of Model: Cabinet with Mirror Doors w78/d20/h37

Photo

