

Test Report

Report No.: 108082-38



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No. of appendices: 2

Item: Model: Colour Cabinet Doors for Tall Units

Type:	Storage unit				
Length:	365 mm	Width:	5 mm	Height:	1010 mm
Weight:	3.7 kg				
Materials:	Glass				

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 13-12-2021.

Method: ANSI/BIFMA X5.9-2019 American National Standard For Office Furnishings – **Storage Units**

Period: The testing was carried out from 13-12-2021 to 03-01-2022.

Result: Model Colour Cabinet Doors for Tall Units fulfils the requirements of ANSI/BIFMA X5.9-2019

Individual results appear from Appendix 1.

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

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 04-01-2022, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature: Test responsible

Co-signatory



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Testing of Model: Colour Cabinet Doors for Tall Units

ANSI/BIFMA X5.9-2019 – Type III

Test		Result
4	Unit strength test:	
4.2	Concentrated Funct. load test: 91 kg (unit height ≤965 mm)	N/A
4.3	Distributed Funct. load test: 63 kg/m ² / 141kg/m ²	N/A
4.4	Concentrated Proof load test: 136 kg (unit height ≤965mm)	N/A
4.5	Distributed Proof load test: 99 kg/m ² / 211kg/m ²	N/A
4.6	Extendible element static load test:	
4.6.2	Extendible element Funct. load test: 470 kg/m ³	N/A
4.6.3	Extendible element Proof load test: 720 kg/m ³	N/A
5	Leg/glide assembly strength test:	
	Units ≥18kg: Force "A" = 0.5 x (unit weight, kg) x 9.8 + 222N	N/A
	Units ≤18kg: Force "A" = 0.5 x (unit weight, kg) x 9.8 + 44N	N/A
	Functional Force "B" = 0,5 x "A"	N/A
	Proof Force "A" = 1.5 x (Funct. Force "A")	N/A
	Proof Force "B" = 1.5 x (Funct. Force "B")	N/A
6	Racking resistance test – for Type I storage units. Only units ≤1830mm in length / without castors	
	2 x 23 kg on opposite corners on top of unit – 60 minutes. 'Pull force test' – sec. 20.	N/A
7	Vertical load durability tests:	
7.1	Top load ease cycle test: Test bag: 91 kg X 10,000 cycles	N/A
7.2	Drop test – dynamic – for units with seat surfaces: Test bag: 91 kg – drop from 76 mm	N/A
8	Separation and disengagement test:	
8.1	Separation test for all storage units with vertically attached/stackable components: Constant load: 136 kg Test bag (swing): 22.7 kg – front/back/center	N/A
8.2	Upward impact force disengagement test for storage components: Upward impact force: 4.5 kg	N/A

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Test		Result
8.3	Upward force disengagement test for storage components: Upward force: 489 N	N/A
9	Stability test:	
9.2	Horizontal force stability test for tall storage units <u>without</u> extendible elements: Horizontal force: gradually up to 178 N to front/back/side	N/A
9.3	Stability test for type I units with at least one extendible element: Constant load in 2 nd largest clear space: 140 kg/m ³ Horizontal outward force on uppermost extendible element: 44 N	N/A
9.4	Stability test for type I storage units with multiple extendible elements: Functional load in accordance with Table 1	N/A
9.5	Stability test for Type II storage units having extendible elements: Load in accordance with Table 1	N/A
9.6	Vertical force stability test for storage units: Suspended vertical load: 22.7 kg	N/A
9.7	Stability test for pedestals/storage units with seat surfaces: Vertical load: 600 N Horizontal force: gradually up to 20 N	N/A
10	Storage unit drop test – for Type I storage units	
	Drop height: <45 kg: 180 mm 45-90 kg: 120 mm >90-136 kg: 60 mm >136 kg: N/A	N/A
11	Movement durability test for mobile storage units	
	<u>Cycles over obstructions / cycles over flat surface</u> Units <45 kg: 25.000 / 0 Units >45 kg: 100 / 1000	N/A
12	Extendible element rebound test	
	Opening force: up to 178 N	N/A
13	Extendible element retention impact and durability (out stop) tests	
	Constant load in accordance with Table 1 Horizontal outward force: 2.3 kg x 15,000 cycles	N/A

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Test		Result
14	Lock tests	
14.2	Force test for extendible element locks: Constant load in accordance with Table 1 Horizontal outward force: 222 N Horizontal upward force (30°): 222 N	N/A
14.3	Force test for door locks: Force in direction of door travel: 222 N	N/A
14.4	Locking mechanism cycle test: Lock/unlock: 5,000 cycles	N/A
15	Extendible element cycle tests – load capacity >7 kg	
15.2	Cycle test for extendible elements – deeper than wide: Constant load in accordance with Table 1 Cycles: 50,000	N/A
1 5.3	Cycle test for extendible elements – wider than deep: Cycles: Single narrow pull: 50,000 at centre Single wide pull: 30,000 at centre/10,000 at RH/10,000 at LH Multiple pulls >457 mm: 25,000 at centre RH/25,000 at centre LH Multiple pulls <457 mm: 50,000 at centre of unit	N/A
15.4	Cycle test for low height drawers: Constant load: 2.3 kg Cycles: 10,000	N/A
16	Interlock strength test	
	Horizontal outward force: 133 N	N/A
17	Door tests	
17.6	Test in accordance with Tables 7/8/9	Passed
17.13	Slam open and closed test for door which do not free fall.	Passed
18	Clothes rail static loading test	
	30 kg/m x 60 minutes	N/A
19	Latch test	
	Operating cycles: 20,000/40,000	N/A
20	Pull force test	
	Load in accordance with Table 1 Max. force: 50 N (3 N)	Passed

N/A – Not applicable

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Testing of Model: Colour Cabinet Doors for Tall Units

Photos



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Testing of Model: Colour Cabinet Doors for Tall Units

Section 17.6 – test set-up



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Testing of Model: Colour Cabinet Doors for Tall Units

Section 17.13 – test set-up



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Section 20 – test set-up

