

Report No.: 108082-22



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Item: Model: Colour Cabinet Wall Hang S

Type:	Storage unit					
Length:	600 mm	Width:	390 mm	Height:	390 mm	
Weight:	13.76 kg					
Materials:	Coloured MDF					

Sampling: The test material was sampled by the client and received at the Danish Technological In-

stitute 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 Wall Hang S 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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Initials jjoh/jnas/hbs

Testing of Model: Colour Cabinet Wall Hang S

ANSI/BIFMA X5.9-2019 - Type III

Test		Result
4	Unit strength test:	
4.2	Concentrated Funct. load test: 91 kg (unit height ≤965mm)	See Report 108082-37
4.3	Distributed Funct. load test: 63 kg/m² / 141kg/m²	See Report 108082-37
4.4	Concentrated Proof load test: 136 kg (unit height ≤965mm)	See Report 108082-37
4.5	Distributed Proof load test: 99 kg/m² / 211kg/m²	See Report 108082-37
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 \geq 18kg: Force "A" = 0.5 x (unit weight, kg) x 9.8 + 222N	N/A
	Units ≤ 18 kg: 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.	N/A
	'Pull force test' – sec. 20.	
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



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Testing of Model: Colour Cabinet Wall Hang S

Test		Result
8.2	Upward impact force disengagement test for storage components: Upward impact force: 4.5 kg	Passed
8.3	Upward force disengagement test for storage components: Upward force: 489 N	Passed
Com- ment:	At 73 N, it lifts 50 mm	
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:	N/A
11	Movement durability test for mobile storage units	
	Cycles over obstructions / cycles over flat surface 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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Testing of Model: Colour Cabinet Wall Hang S

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: Single wide pull: Multiple pulls >457 mm: 50,000 at centre/10,000 at RH/10.000 at 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	
	Test in accordance with Tables 7/8/9	N/A
17.13	Slam open and closed test for door which do not free fall.	N/A
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	N/A

N/A – Not applicable



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Initials jjoh/jnas/hbs

Testing of Model: Colour Cabinet Wall Hang S Photos





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Testing of Model: Colour Cabinet Wall Hang S

Sec 8.2 - Test Set-Up





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Testing of Model: Colour Cabinet Wall Hang S

Sec 8.3 - Test Set-Up

