Test Report

Report No.: 108082-23



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Assignor:	Havnen 1 Jjoh/jnas/hbs DK 0700 Havnens Order no.: 108082			Page 1 of 1 Jjoh/jnas/hbs Order no.: 108082 No. of appendices: 2		
Item:	Model:	Colour Cabine	Colour Cabinet Wall Hang M			
	Type:	Storage unit				
	Length:	1200 mm	Width:	390 mm	Height:	510 mm
	Weight:	31.84 kg				
	Materials:	Coloured MDF				
Sampling:	The test material was sampled by the client and received at the Danish Technological In- stitute 13-12-2021.			n Technological In-		
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 M 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	2, Danish Techn	ological Institut	e, Wood and	Biomaterials, T	aastrup

Signature: Test responsible Co-signatory



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ANSI/BIFMA X5.9-2019 - Type III

Test		Result
4	Unit strength test:	
4.2	Concentrated Funct. load test: 91 kg (unit height ≤965mm)	Passed
4.3	Distributed Funct. load test: 63 kg/m ² / 141kg/m ²	Passed
4.4	Concentrated Proof load test: 136 kg (unit height ≤965mm)	Passed
4.5	Distributed Proof load test: 99 kg/m ² / 211kg/m ²	Passed
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 \leq 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.	N//A
	'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	
8.2	Upward impact force disengagement test for storage components: Upward impact force: 4.5 kg	See Report 108082-22

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Test		Result
8.3	Upward force disengagement test for storage components: Upward force: 489 N	See Report 108082-22
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	
	Cycles over obstructions / cycles over flat surfaceUnits <45 kg:	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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	Result
Lock tests	
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
Force test for door locks: Force in direction of door travel: 222 N	N/A
Locking mechanism cycle test: Lock/unlock: 5,000 cycles	N/A
Extendible element cycle tests – load capacity >7 kg	
Cycle test for extendible elements – deeper than wide: Constant load in accordance with Table 1 Cycles: 50,000	N/A
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
Cycle test for low height drawers: Constant load: 2.3 kg Cycles: 10,000	N/A
Interlock strength test	
Horizontal outward force: 133 N	N/A
Door tests	
Test in accordance with Tables 7/8/9	See Report 108082-37
Slam open and closed test for door which do not free fall.	See Report 108082-37
Clothes rail static loading test	
30 kg/m x 60 minutes	N/A
Latch test	
Operating cycles: 20,000/40,000	N/A
Pull force test	
Load in accordance with Table 1 Max. force: 50 N	See Report 108082-24
	Force test for extendible element locks: Constant load in accordance with Table 1 Horizontal outward force: 222 N Horizontal upward force (30°): 222 N Force test for door locks: Force in direction of door travel: 222 N Locking mechanism cycle test: Lock/unlock: 5,000 cycles Extendible element cycle tests – load capacity >7 kg Cycle test for extendible elements – deeper than wide: Constant load in accordance with Table 1 Cycles: 50,000 Cycle test for extendible elements – wider than deep: Cycles: S0,000 at centre Single narrow pull: 50,000 at centre RH/25,000 at centre LH Multiple pulls >457 mm: 25,000 at centre of unit Cycle test for low height drawers: Constant load: Constant load: 2.3 kg Cycle test for low height drawers: Constant load: Constant load: 2.3 kg Cycle test for low height drawers: Constant load: Constant load: 2.3 kg Cycle test for low height drawers: Constant load: Constant load: 2.3 kg Cycles: 10,000

N/A – Not applicable

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Photos



Section 4.2 – test set-up



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Section 4.3 - test set-up



Section 4.4 - test set-up



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Section 4.5 - test set-up

