



Test report: Assessment Voortman sliding door cabinet Sound and Vision for the requirements regarding safety and durability according to NEN-EN 14073-2:2004 and NEN-EN 14074:2004

Report code: 20.0465-1

Date: February 5, 2021

SHR
Nieuwe Kanaal 9e
PO Box 497
6700 AL Wageningen, The Netherlands
Tel: + 31 317 467366
If not stated other wise the tests have been performed at this address.

This report has 10 pages. It is the property of the principal, who has the right to publish the complete report. Partial publication, even by the principal, is only allowed after written approval of SHR.

SHR is not responsible for information provided by the client that may influence the validity of the results. The information provided by the customer in this report is specified.

E-mail: r.winkelman@shr.nl

Principal: Voortman Kantoormeubelen
Edisonweg 3
1446 TM Purmerend

Appendices: 2

Project number: 20.0465

Authors:



R.F. Winkelman
Project Manager



W.N.H. Cobben
2nd author

Entries: Voortman, Sound and Vision, sliding door cabinet, safety, durability, NEN-EN 14073-2, NEN-EN 14073-3, NEN-EN 14074

1. Introduction

1.1 Assignment Examine for compatibility with relevant requirements on stability, strength and durability according to the latest version of Dutch and European standards.

1.2 Date assignment 03-09-2020

2. Materials en methods

2.1 Tested product *Description:* Office sliding two door cabinet 1605 x 495 x 1244 (b x d x h) (see photos Appendix 1).

Specifications: Layout: In the left part two shelves and a bottom, in the right part one shelf, a drawer and two suspension files drawers.

Body colour: White

Doors: 2 metal sliding doors, with openings filled with acoustic material.

Lock: Both doors a lock with key.

Colour interior White

Producer's code: Sound and Vision

SHR code: 200465-1

2.2 Producer Voortman

2.3 Tests performed Examination according to relevant requirements on mechanical safety of:
NEN-EN 14073-2:2004 strength, durability, stability
NEN-EN 14073-3:2004 strength, durability
NEN-EN 14074:2004 strength, durability

2.4 Test period Laboratory tests performed at SHR from 18-01-2021 till 01-02-2021.

3. Results

The examined sample COMPLIES with all requirements (results of each individual test are shown in Appendix 2).

Literature

Dutch and European standard NEN-EN 14073-2:2004 Office furniture - Storage furniture – Part 2: Safety requirements. NEN. Delft. 9 pp.

Dutch and European standard NEN-EN 14073-3:2004 Office furniture - Storage furniture – Part 3: Test methods for the determination of stability and strength of the structure. NEN. Delft. 13 pp.

Dutch and European standard NEN-EN 14074:2004 Office furniture - Tables and desks and storage furniture - Test methods for the determination of strength and durability of moving parts. NEN. Delft. 20 pp.

Appendix 1 Photos of the tested product



Photo 1: Tested product 200465-1 front view closed



Photo 2: Tested product 200465-1 front view partially opened



Photo 3: Tested product 200465-1 front view partially opened



Photo 4: Tested product 200465-1 front view drawer opened



Photo 5: Tested product 200465-1 front view suspension files drawer opened



Photo 6: Tested product 200465-1 side view



Photo 7: Tested product 200465-1 back view



Photo 8: Tested product 200465-1 bottom view



Photo 9: Tested product 200465-1 detail door hatch



Photo 10: Tested product 200465-1 detail bottom view shelf



Photo 11: Tested product 200465-1 detail shelf support



Photo 12: Tested product 200465-1 detail of suspension file drawer runner



Photo 13: Tested product 200465-1 detail bottom view side



Photo 14: Tested product 200465-1 detail bottom view middle



Photo 15: Tested product 200465-1 detail openings in door with acoustic filling

Appendix 2 Results – Voortman Sound and Vision

Table 1: NEN-EN 14073-2:2004.

3.2	centre of gravity	640 mm	
3.3	total mass	461 kg	including content

Table 2: NEN-EN 14073-2:2004 (safety requirements), NEN-EN 14073-3:2004 (test methods).

Par/art	test	demand	Ok	Not Ok	N/a.	Rem.
3.4	<i>General safety requirements</i>					
	- Accessible edges	free from burrs and rounded or chamfered	✓			
	- safety distances	≤ 8 mm or ≥ 25 mm	✓			
	- Adjustable parts	prevent inadvertent operation or release	✓			
	- vertically sliding roll fronts	shall not close by themselves			X	
	- Extension elements stops	Effective at F = 200 N	✓			
5.2	Strength EN 14073-3)	no fracture, other damage or change of function that affects the safety	✓			
3.5	<i>Floor standing units</i>					
	1. Pull out of shelves	no fracture, other damage or change of function that affects the safety	✓			
	2. Strength of shelf supports		✓			
	3. Strength of top surfaces				X	
	4. Strength of extension elements		✓			
	5. Slam open of extension elements		✓			
	6. Interlock test		✓			
	7. Vertical load on pivoted door				X	
	8. Slam shut/open of sliding doors and horizontal roll fronts		✓			
	9. Strength of flaps				X	
	10. Floor standing units attached to the building				X	
	11. Stability		✓			
3.6	<i>screen and wall hanging units</i>					
	1. Dislodgement of screen and wall mounted unit.	no fracture, other damage or change of function that affects the safety.			X	
	2. Pull out of shelves				X	
	3. Strength of shelf supports				X	
	4. Strength of top surfaces				X	
	5. Strength of extension elements				X	
	6. Slam open of extension elements				X	
	7. Interlock test				X	

	8. Vertical load on pivoted door					X	
	9. Slam shut/open of sliding doors and horizontal roll fronts					X	
	10. Strength of flaps					X	
	11. Strength of screen and wall attachment devices					X	

Table 3: NEN-EN 14074 (durability of moving parts).

Par/art	test	demand	Ok	Not Ok	N/a	Rem.
6.3.2	Horizontal static force on open door	no fracture, other damage or change of function that affects the safety			X	
6.2.2	Durability test of extension elements		✓			
6.3.3	Durability test on hinged and pivoted doors				X	
6.4.1	Durability test of sliding doors and horizontal roll fronts		✓			
6.5.1	Durability of vertical roll front				X	
6.6.2	Durability of flaps				X	
6.7	Rolling test for mobile filing pedestals				X	