Test Report

Revision 1

Report Number: 231099-5-ST rev. 1



DANISH TECHNOLOGICAL INSTITUTE

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Page 1 of 5 Init.: JJOH/JNAS Order no.: 231099 Encl.: 1

Assignor: WOODUPP A/S, Industrivej 59, DK-6760 Ribe

Item: Horizontal Hanger Art No. 3602 - The test also covers Horizontal hanger Art No. 3603 -

Tested with zinc bracket Art No. 7478. Tested on vertical and horizontal walls.

Sampling: The assignor confirms having selected the product. The product was forwarded by the

assignor and received at Danish Technological Institute on 11 December 2023.

Period: The test took place from 11 December 2023 to 19 December 2023.

Method: EN 16121:2013+A1:2017, Non-domestic storage furniture - Requirements for safety, strength,

durability and stability

Test severity 1: General: hotels, homes for the elderly, kindergarten, reception areas,

libraries, restaurants.

Additional information is given in enclosure A.

Test results: Passed.

The results are shown in enclosure A.

Remarks: This report replaces report dated 20-12-2023. Rev 1 is due to addition of weight under

Details of the tested item.

Terms: This test was conducted accredited in accordance with international requirements (ISO/IEC

17025:2017) and in accordance with the General Terms and Conditions of Danish

Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.

Place: Danish Technological Institute, Taastrup, Building and Construction

Signature: This document is only valid with a digital signature from Danish Technological Institute. The

date of issue appears from the digital signature.

Jesper Bruhn Johansen

Consultant





Results

Safety requirements

Test No.	No. Test			
5.2	.2 General requirements			
5.3.1	Shear and squeeze points when setting up and folding			
5.3.2	Shear and squeeze points under influence of powered mechanisms			
5.3.3	and the state of t			
5.4				
5.5	Vertical glass components	N/A		

Stability

Test No.	Test	Test Method	Loading		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		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		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	EN 16122, 11.4.1	-	-	N/A
5.6.4	All storage areas unloaded with overturning load	EN 16122, 11.4.2	Vertical force, N	100	N/A
5.6.5	All storage areas loaded with overturning load	EN 16122, 11.4.3	Vertical force, N		N/A
5.6.6	Doors, extension elements and flaps closed and locked	EN 16122, 11.5	Outward force, N	100	N/A
5.6.7	Dynamic stability test for units with castors	EN 16122, 11.6	-	-	N/A



Structural safety

Test No.	Test	Test Method	Loading		Result	
5.7.1.1	Static load test for tops and bottoms	EN 16122, 6.2.2	Force, N	750	N/A	
			Cycles	10		
5.7.1.2	Shelf retention test - horizontal outward	EN 16122, 6.1.2	Force, N		N/A	
5.7.1.3	Shelf retention test - vertical downward	EN 16122, 6.1.3	Force, N	100	N/A	
5.7.1.4	Strength of shelf supports	EN 16122, 6.1.5	Cycles	10	N/A	
			Mass per unit area, kg/dm²	0.65		
			Total mass used, kg			
5.7.1.5	Vertical load on pivoted doors	EN 16122, 7.1.2	Mass, kg	30	N/A	
			Cycles	10		
5.7.1.6	Horizontal load on pivoted doors	EN 16122, 7.1.3	Force, N	60	N/A	
			Cycles	10		
5.7.1.7	Strength of bottom-hinged flaps	EN 16122, 7.3.1	Force, N	200	N/A	
			Cycles	10		
5.7.1.8	Strength of extension elements	EN 16122, 7.5.2	Force, N	200	N/A	
			Cycles	10		
5.7.1.9	Slam open of extension elements	EN 16122, 7.5.4	Velocity, m/s	1.3	N/A	
5.7.1.10	Interlock test	EN 16122, 7.5.6	Force, N	200	N/A	
			Cycles	10		
5.7.1.11	Test for structure and underframes	EN 16122, 6.4.1	Force, N	350	N/A	
			Cycles	10		
5.7.1.12	Test for unit with castors or wheels	EN 16122, 6.4.3	Cycles	2000	N/A	
5.7.1.13	Overload test	EN 16122, 10.1.3	Mass per unit area, kg/dm ²	2.5	N/A	
			Total mass used, kg			
5.7.1.14	Dislodgement test	EN 16122, 10.1.4	Force, N	100	N/A	
5.7.1.15	Units supported by the floor	EN 16122, 10.2	Force, N	200	N/A	



Strength and durability

Requirements in accordance with EN 16121 Severity 1

Test No.	Test	Test Method	Loading	Result	
6.1.1	Strength of cloth rail supports	EN 16122, 6.3.1	Mass per unit length, kg/dm Time, h	4 1	N/A
6.1.2	Strength of coat hooks EN 16122, 9.1 Force per Cycles		Force per hook, N Cycles	40 10	Passed
Comment	Weight 10 kg				
6.1.3	Durability of pivoted doors	EN 16122, 7.1.5	Cycles	40000	N/A
6.1.4	Slam shut test of pivoted doors	EN 16122, 7.1.4	Mass, kg Cycles	3 10	N/A
6.1.5	Slam shut/open of sliding doors and horzontal roll fronts	EN 16122, 7.2.2	Mass, kg Cycles		N/A
6.1.6	Durability of sliding doors and horizontal roll fronts	EN 16122, 7.2.3	Cycles - sliding doors Cycles - roll fronts	20000 10000	N/A
6.1.7	Durability of flaps EN 16122, 7.3.2 Cycles		10000	N/A	
6.1.8	Durability of vertical roll fronts	EN 16122, 7.4.2 Cycles 10		10000	N/A
6.1.9	Durability of extension elements	EN 16122, 7.5.3	Cycles - extension elements Cycles - trays	40000 20000	N/A
6.1.10	Slam shut of extension elements	EN 16122, 7.5.4	Velocity, m/s	1	N/A
6.1.11	Displacement of extension element bottoms	EN 16122, 7.5.5	Force, N Cycles		N/A
6.1.12	Strength test for locking and latching mechanisms for extension elements	EN 16122, 7.6.2	5.2 Force, N Cycles		N/A
6.1.13	Strength test for locking and latching mechanisms for doors, flaps and roll fronts	EN 16122, 7.6.3			N/A
6.1.14	Drop test	EN 16122, 6.4.2	Drop height, mm		N/A
6.1.15	Deflection of shelves	EN 16122, 6.1.4	1.4 Mass per unit area, kg/dm² Total mass used, kg		N/A
6.1.16	Dislodgement of clothes rails	EN 16122, 6.3.2	Mass per unit length, kg/dm Total mass used, kg	dm 5	
6.1.17	Drop test for trays	EN 16122, 8.3	Drop height, mm Cycles	350 10	N/A
6.1.18	18 Sustained load test for trays		Kg/dm² Total mass used, kg	0.65	N/A

Documentation

Test No.	Test	Result	
7	Information for use	N/A	

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Information provided by the Danish Technological Institute

Photograph of the received sample



Information required by EN 16121:2013

European Standards used:

EN 16121:2013+A1:2017 - Non-domestic storage furniture – Requirements for safety, strength, durability and stability

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

Details of the tested item:

Model:	Horizontal Ha	nger		Type:	Hanger		
Width:	265 mm	Height:	80 mm	Depth:	38 mm	Weight:	0.32 kg
Materials:	Metal/wood						

Details of defects observed before testing:

None.

Details of any deviations from this standard:

None

Any variation from the specified temperature range:

None.

Test result:

See enclosure A.

Name and address of the test facility:

Danish Technological Institute, Gregersensvej, Taastrup 2630, Denmark

Date of test:

2023-12-11 to 2023-12-19

Storage:

The test material will be destroyed 1 month after the test is completed, unless otherwise agreed in writing.