



HAY/Nine United Denmark A/S
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DK-8700 Horsens

Order no. 672144-3
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Initials laha/prni/hbs

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Test Report

Material: Model: New Order – Open Grid

Type:	Storage unit
Materials:	Alu profiles

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 24-11-2015.

Method: **EN 16121:2013** Non-domestic storage furniture – Requirements for safety, strength, durability and stability – Test severity 1

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

Period: The testing was carried out from 24-11-2015 to 14-12-2015.

Result: Model New Order – Open Grid fulfils the requirements in EN 16121:2013 and EN 16122:2012.

Individual results appear from Appendices 1 and 2.

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

Terms: The test has been performed according to the attached conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract

14-12-2015, Danish Technological Institute, Wood Technology, Taastrup

Lars Hansen
Test responsible

Per A. Nielsen
Co-reader

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Testing of Model: New Order – Open Grid

EN 16121:2013

		Result
5.2	General safety requirements	
5.3	Shear and squeeze points	
5.3.1	Shear and squeeze points when setting up and folding	Passed
5.3.2	Shear and squeeze points under influence of powered mechanism	N/A
5.3.3	Shear and squeeze points during use	Passed
5.4	Hinged horizontal lids	N/A
5.5	Vertical glass components	N/A
5.6	Stability – EN 16122:2012 – table 2	Passed
5.7	Structural safety	
5.7.1	Structural safety tests - - EN 16122:2012 – table 4	Passed
5.7.2	Structural safety requirements – EN 16122:2012 – table 4	Passed
6	Strength and durability	
6.1	General	
6.2	Strength and durability requirements - EN 16122 – table 5	Passed
7	Information for use	Passed

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Testing of Model: New Order – Open Grid

EN 16122:2012

		Result
6.1.1	Shelves, general	
6.1.2	Shelf retention test – horizontal outward force	Passed
6.1.3	Shelf retention test – vertical downward force	Passed
6.1.4	Deflection of shelves	Passed
6.1.5	Strength of shelf supports	Passed
6.2	Tops and bottoms	
6.2.1	Sustained load test for tops and bottoms	N/A
6.2.2	Static load test for tops and bottoms	Passed
6.3.1	Clothes rails and supports, general	N/A
6.3.2	Dislodgement of clothes rails	N/A
6.4.1	Strength of the structure, test for structure and underframe	Passed
6.4.2	Drop test	N/A
6.4.3	Tests for units with castors or wheels	N/A
7.1.1	Pivoted doors, general	
7.1.2	Strength of pivoted doors – vertical load of pivoted doors	N/A
7.1.3	Horizontal load of pivoted doors	N/A
7.1.4	Slam shut of pivoted doors	N/A
7.1.5	Durability of pivoted doors	N/A
7.2.1	Sliding doors and horizontal roll fronts, general	
7.2.2	Slam shut/open of sliding doors and horizontal roll fronts	N/A
7.3.1	Flaps, strength of bottom-hinged flaps	N/A
7.3.2	Durability of flaps	N/A
7.3.3	Drop test for horizontally top-hinged doors/flaps	N/A
7.4.1	Vertical roll fronts, slam shut/open of vertical roll fronts	N/A
7.4.2	Durability of vertical roll fronts	N/A
7.5.1	Extension elements, general	
7.5.2	Strength of extension elements	N/A
7.5.3	Durability of extension elements	N/A
7.5.4	Slam shut and open of extension elements	N/A
7.5.5	Displacement of extension element bottoms	N/A
7.5.6	Interlock test	N/A
7.6.1	Locking and latching mechanism tests, general	
7.6.2	Strength test for locking and latching mechanisms for extension elements	N/A
7.6.3	Strength test for locking and latching mechanisms for doors, flaps and roll fronts	N/A

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Testing of Model: New Order – Open Grid

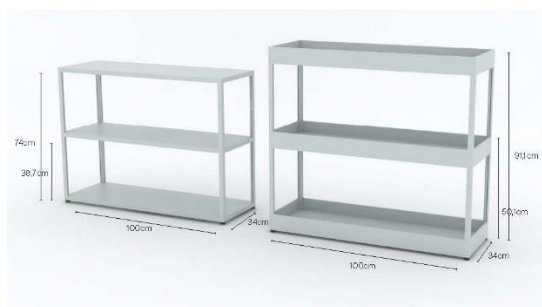
		Result
8.1	Trays, general	
8.2	Sustained load test for trays	N/A
8.3	Drop test for trays	N/A
9	Coat hooks, strength of coat hooks	N/A
10.1.1	Units mounted to the building, units not supported by the floor, general	
10.1.2	Movable parts, shelf supports, tops and bottoms	N/A
10.1.3	Overload	N/A
10.1.4	Dislodgement test	N/A
10.2	Units supported by the floor	N/A
11.1	Stability tests, general	
11.2	Doors, extension elements and flaps closed, all storage units unloaded	
11.2.1	Units that are, or can be, adjusted to a height of 1000 mm or less	Passed
11.2.2	Units that are, or can be, adjusted to a height of more than 1000 mm	Passed
11.3	Opening doors, extension elements and flaps, all storage units unloaded	N/A
11.4	Doors, extension elements and flaps opened and unlocked	
11.4.1	All storage areas unloaded and all doors, extension elements and flaps open	N/A
11.4.2	All storage areas unloaded with overturning load	N/A
11.4.3	All storage areas loaded with overturning load	N/A
11.5	Doors, extension elements and flaps closed and locked, all storage units loaded	N/A
11.6	Dynamic stability test for units with castors	N/A

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Testing of Model: New Order – Open Grid

Photo

Product	Length	Width	Height	Height between shelves
1 m single	100 cm	34 cm	74,1 cm	38,7 cm
1 m double	100 cm	34 cm	91,1 cm	50,1 cm
1,5 m single	150 cm	34 cm	180,0 cm	38,7 cm
1,5 m double	150 cm	34 cm	214,1 cm	50,1 cm
2 m single	200 cm	34 cm	250,6 cm	38,7 cm
2 m double	200 cm	34 cm	295,6 cm	50,1 cm



1 m single



1 m double



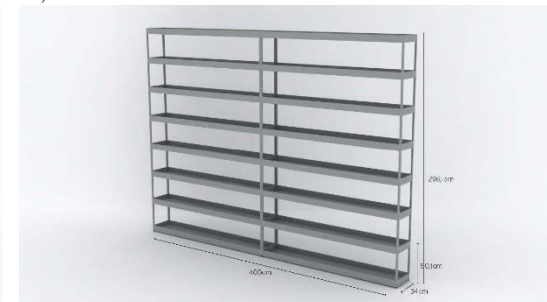
1,5 m single



1,5 m double



2 m single



2 m double

The general conditions pertaining to assignments accepted by Danish Technological Institute shall apply in full to the technical testing or calibration at Danish Technological Institute and to the completion of test reports or calibration certificates within the relevant field.

Danish Accreditation (DANAK):

DANAK is the national accreditation body in Denmark in compliance with EU regulation No. 765/2008.

DANAK participates in the multilateral agreements for testing and calibration under European co-operation for Accreditation (EA) and under International Laboratory Accreditation Cooperation (ILAC) based on peer evaluation. Accredited test reports and calibration certificates issued by laboratories accredited by DANAK are recognized cross border by members of EA and ILAC equal to test reports and calibration certificates issued by these members' accredited laboratories.

The use of the accreditation mark on test reports and calibration certificates or reference to accreditation, documents that the service is provided as an accredited service under the company's DANAK accreditation according to EN ISO IEC 17025.

Construction Product Directive:

The Danish Technological Institute guarantees that employees carrying out tests to be used together with harmonized standards under notification no. 1235 according to EU regulation 305/2011, article 43, satisfy all the requirements made for capability, integrity and impartiality. You find the CPR here:

http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/construction-products/index_en.htm

September 2015