



Test Report

Report No.: 792549-11

Assignor: Nine United Denmark A/S/Hay
Havnen 1
DK-8700 Horsens

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mms/laha/hbs
Order no.: 792549
No. of appendices: 2

Subject: Model: AAL 91 also covers AAL 81

| | | | | | |
|------------|--------------------------|--------|--------|---------|--------|
| Type: | Chair | | | | |
| Length: | 860 mm | Width: | 890 mm | Height: | 990 mm |
| Weight: | 25.95 kg | | | | |
| Materials: | Upholstery Metal base | | | | |

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 20-03-2018.

Method: EN 1022:2005 Domestic furniture - Seating - Determination of stability. EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating.

Clauses 4.1, 4.2.3, 4.3.2, 5, 6.1.1, 6.1.2, 6.1.3, 6.1.5, 6.1.6, 6.1.8, 6.1.9, 6.1.10, 6.1.12, 6.1.13, 6.1.14, 6.1.15, 6.1.16.

L2: Extreme use: E.g. in night-clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).

Period: The testing was carried out from 21-03-2018 to 25-04-2018.

Result: Model AAL 91 fulfils the requirements in EN 1022:2005 and EN 16139:2013. Loading according to Test severity L2. Individual results appear from Appendix 1.

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

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 25-04-2018, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature: Test responsible

Co-signatory

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Test of Model: AAL 91

Loading according to Test severity L2.

| Test | Test Method | Cycles | Load | Result |
|--|----------------------|------------------|--------------------------------|--------|
| 4.1 General | EN 16139, 4.1 | | | Passed |
| 4.2.2 Shear and squeeze points under influence of powered mechanisms | EN 16139, 4.2.2 | | | N/A |
| 4.2.3 Shear and squeeze points during use | EN 16139, 4.2.3 | | | Passed |
| 4.3.2 Swivelling chairs | EN 1022 | | | Passed |
| 4.3.3 Non swivelling chairs | EN 1022 | | | N/A |
| 4.4 Rolling resistance of the unloaded chair | EN 16139, 4.4 | | | N/A |
| 5 Strength and durability requirements | EN 16139, 5 | | | Passed |
| 6.1.1 Seat static load and back static load test | EN 1728:2012, 6.4 | 10 10 | Seat: 2000 N Back: 700 N | Passed |
| 6.1.2 Seat front edge static load | EN 1728:2012, 6.5 | 10 | Seat: 1600 N | Passed |
| 6.1.3 Vertical load on back rests | EN 1728:2012, 6.6 | 10 | Back: 900 N Seat: 1800 N | Passed |
| 6.1.4 Foot rest static load test | EN 1728:2012, 6.8 | | | N/A |
| 6.1.4 Leg rest static load test | EN 1728:2012, 6.9 | | | N/A |
| 6.1.5 Arm rest sideways static load test | EN 1728:2012, 6.10 | 10 | 900 N | Passed |
| 6.1.6 Arm rest downwards static load test | EN 1728:2012, 6.11 | 5 | 900 N | Passed |
| 6.1.7 Vertical upwards static load on arm rests | EN 1728:2012, 6.13 | | | N/A |
| 6.1.8 Combined seat and back durability test | EN 1728:2012, 6.17 | 200000 200000 | Seat: 1000 N Back: 300 N | Passed |
| 6.1.9 Seat front edge durability test | EN 1728:2012, 6.18 | 100000 | 800 N | Passed |
| 6.1.10 Arm rest durability test | EN 1728:2012, 6.20 | 60000 | 400 N | Passed |
| 6.1.11 Foot rest durability test | EN 1728:2012, 6.21 | | | N/A |
| 6.1.12 Leg forward static load test | EN 1728:2012, 6.15 | 10 | Edge: 620 N) (Seat: 1800 N) | Passed |
| 6.1.13 Legs sideways static load test | EN 1728:2012, 6.16 | 10 | Edge: 760 N) (Seat: 1800 N) | Passed |
| 6.1.14 Seat impact test | EN 1728:2012, 6.24 | 10 | 300 mm | Passed |
| 6.1.15 Back impact test | EN 1728:2012, 6.25 | 10 | 330 mm / 48° | Passed |
| 6.1.16 Arm Impact Test | EN 1728:2012, 6.26 | 10 | 330 mm / 48° | Passed |
| 6.1.17 Drop test (multiple seating) | EN 1728:2012, 6.27.1 | | | N/A |
| 6.1.18 Auxiliary writing surface static load test | EN 1728:2012, 6.14 | | | N/A |
| 6.1.19 Auxiliary writing surface durability test | EN 1728:2012, 6.22 | | | N/A |
| 7 Information for use | EN 16139, 7 | | | N/A |

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Photo

