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Appendices 1
Initials Laha/thp/hbs

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Test Report

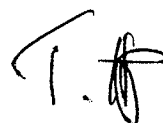
- Material:** Model: Hee Barstool
Lab. no. 060608 C
Seat/back: Metal rod Ø 6 mm
Frame: Metal rod Ø 12 mm
Height back: 857 mm
Height seat front edge: 750 mm
Width (feet): Front 413 – back 413 mm
Weight: 7,30 kg
- Sampling:** The test material was sampled by the client and received at the Danish Technological Institute week 35, 2006.
- Method:** EN 1728:2000 Domestic Furniture. Seating. Determination of strength and durability with loading according to DS/INF 130:2001-02-09. Test level 4 the following clauses: 6.2.1 – 6.2.2 – 6.5 – 6.6 – 6.7 - 6.10 – 6.12 – 6.13 – 6.15 – 6.16 - 6.17 and 6.18.

Clause 6.8 has not been tested according to the client's request.
- Period:** The testing was carried out in the period week 36, 2006 to week 38, 2006.
- Result:** Model Hee Barstool meets the requirements of EN 1728:2000, test level 4 Normal contract use, e.g. offices with loading according to DS/INF 130:2001-02-09.
Part results appear from Appendix 1.
- Storage:** The sample will be destroyed after 2 months, if nothing else has been agreed in writing.
- Terms:** The test has been performed according to the rear side 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.

2006.10.02, Danish Technological Institute, Timber, Taastrup



Lars Hansen



Thomas Høyrup

**Testing of Model HEE Barstool
Lab. no. 060608 C**

6.2.1 Static Load – Seat and Back

Adjustable backs are placed in upright position.

The seat is loaded 10 times each of 10 seconds with 1600 N. Load back: 760 N (min. 410 N).

Test Result

Meets the requirement.

6.2.2 Static Load of Seat Front Edge

Load 80 mm from the seat front edge, 10 times of 10 seconds with 1600 N.

Test Result

Meets the requirement.

6.5 Sideways Static Load – Arm Rests and Wings

The arm rests are loaded 10 times each of 10 seconds with: Armrests 600 N, wings 400 N. The load is applied on the most critical point, however, not less than 100 mm from each end of the armrest.

Test Result

Not applicable (no armrests/wings).

6.6 Vertical Static Load – Arm Rest

The arm rests are loaded vertically downward 10 times each of 10 seconds with 900 N at the most critical point, however, not less than 100 mm from each end.

Test Result

Not applicable (no armrests/wings).

6.7 Combined Durability Testing of Seat and Back

Seat and back are loaded cyclically with 1000 N and 300 N respectively, totally 100,000 times.

Test Result

Meets the requirement.

6.8 Durability Testing of Seat Front Edge

The front edge of the seat is loaded 1000 N alternating at two points, 80 mm from the front edge of the seat and as close as possible to the sides, however, not less than 80 mm from the edges, totally 80,000 cycles.

Test Result

Not tested.

**Testing of Model HEE Barstool
Lab. no. 060608 C**

6.10 Durability Testing of Arms

The armrests are loaded simultaneously in an angle of 10° against two points with 400 N each, 100 mm from the front edges of the armrests, totally 50,000 times.

Test Result

Not applicable (no armrests/wings).

6.12 Forward Static Load

The seat is loaded vertically with 1250 N. The back edge of the seat is loaded horizontally forward, 10 times each of 10 seconds with 620 N.

Test Result

Actual loading of the back edge of the seat: 275 N
Meets the requirement.

6.13 Sideways Static Load

The seat is loaded with 1800 N. The edge of the seat, between front and back edge, is loaded horizontally sideways, 10 times each of 10 seconds with 490 N.

Test Result

Actual loading of the back edge of the seat: 275 N
Meets the requirement.

6.15 Impact Testing, Seat

An impacter of 25 kg falls freely to the seat 10 times from 240 mm height.

Test Result

Meets the requirement.

6.16 Impact Testing, Back

The upper edge of the back, middle and outside in was exposed 10 times to strokes from a pendulum hung up impact hammer of 6.5 kg. from a drop angle of 330 mm/48°mm.

Test Result

Meets the requirement.

6.17 Impact Testing, Armrests

The test is carried out as described above, but with impact load against an armrest. The impact load is applied to the most critical point outside in against the outer side of the armrest.

Test Result

Not applicable (no armrests/wings).

**Testing of Model HEE Barstool
Lab. no. 060608 C**

6.18 Drop Testing (Sofas)

Both short sides of the test specimen are weighed (if necessary, with dynamometer) and the drop height is calculated in relation to the weight stated in the table, figure 19 in EN 1728. DS/INF 130:2000 states a drop height of 300 mm

Test Result

Not applicable (not a sofa).

6.18 Drop Testing (Stackable Chairs)

The chair is suspended in an angle of 10° horizontally above one foreleg and the diagonal rear leg. Drop height 600 mm. The drop height is determined from floor to the leg closest to the floor.

The chair was dropped 10 times against the floor, which is rubber on concrete from the actual drop height. The same is repeated on the diagonal leg, which should then be closest to the floor.

Test Result

Meets the requirements

Photo 1:

