



**DANISH
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Scandinavian Business Seating
Fridtjof Nansens vei 12
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Order no. 605778-2
Page 1 of 1
Appendices 3
Initials laha/prni/hbs

Test Report

Material: Model: 6043 RBM Ballet Medium w/armrests

| | | | | | |
|------------|------------|----------------------|--------|---------|--------|
| Type: | Chair | | | | |
| Length: | 510 mm | Width: | 515 mm | Height: | 780 mm |
| Weight: | 5,10 kg | | | | |
| Materials: | Seat/back: | 5.5 mm plastic shell | | | |
| | Legs: | Ø 20 mm tube | | | |

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 20-06-2014.

Method: EN 1729-1:2008 Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions. Tested according to table A.1. Clauses 1-11..

EN 1729-2:2012 Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods. Loading according to EN 1729-2:2012 size 7, (Brown). Clauses 4, 5.

Period: The testing was carried out from 01-07-2014 to 30-07-2014.

Result: Model 6043 RBM Ballet Medium w/armrests fulfils the requirements in EN 1729-1:2008, the requirements of Table A.1. and EN 1729-2:2012, size 7 (brown). Clauses 4, 5.

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

30-07-2014, Danish Technological Institute, Wood Technology, Taastrup

Lars Hansen
Test responsible

Per A. Nielsen
Co-reader

Order no. 605778-2
 Appendix 1
 Page 1 of 2
 Initials laha/prni/hbs

Testing of model: 6043 RBM Ballet Medium w/armrests

EN 1729-1:2006 – Table A.1

| Size code | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Colour code | White | Orange | Violet | Yellow | Red | Green | Blue | Brown |
| 1. Length of the lower leg (without shoes) | 200-250 | 250-280 | 280-315 | 315-355 | 355-405 | 405-435 | 435-485 | 485+ |
| 2. Person height (without shoes) | 800-950 | 930-1160 | 1080-1210 | 1190-1420 | 1330-1590 | 1460-1765 | 1590-1880 | 1740-2070 |
| 3. H ₈ -Seat height ± 10 | 210 | 260 | 310 | 350 | 380 | 430 | 460 | 510 |
| Measured | | | | | | 450 | | |
| 4. T ₄ -Effective seat depth ± 10 mm (0-2) ± 20 mm (3-7) | 225 | 250 | 270 | 300 | 340 | 380 | 420 | 460 |
| Measured | | | | | 358 | | | |
| 5. B ₃ -Min. seat width | 210 | 240 | 280 | 320 | 340 | 360 | 380 | 400 |
| Measured | | | | | | | 392 | |
| 6. T ₇ -Seat depth (min.) | Actual t ₄ minus 20 mm | Actual t ₄ minus 20 mm | Actual t ₄ minus 20 mm | Actual t ₄ minus 30 mm | Actual t ₄ minus 30 mm | Actual t ₄ minus 30 mm | Actual t ₄ minus 30 mm | Actual t ₄ minus 30 mm |
| Measured | | | | | 328 | | | |

Order no. 605778-2
 Appendix 1
 Page 2 of 2
 Initials laha/prni/hbs

Testing of model: 6043 RBM Ballet Medium w/armrests

| Size code | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Colour code | White | Orange | Violet | Yellow | Red | Green | Blue | Brown |
| 7. H₆-Height of point S- -10 to +20 | 140 | 150 | 160 | 180 | 190 | 200 | 210 | 220 |
| Measured | | | | 180 | | | | |
| 8. H₇-Back height, min | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Measured | | | | 249 | | | | |
| 9. B₄-Min. back width | - | 210 | 250 | 270 | 270 | 300 | 330 | 360 |
| Measured | | | | | | | | 375 |
| 10. R₂-The horizontal radius of the back | - | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Measured | | | | | | | | 600 |
| 11. β-The inclination of the back, degrees | - | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° |
| Measured | | | | | | | | 105 |

Order no. 605778-2
 Appendix 2
 Page 1 of 1
 Initials laha/prni/hbs

Testing of model: 6043 RBM Ballet Medium w/armrests

Loading according to EN 1729-2:2012, size 7 (brown)

| Testing | Test Method | Cycles | Loading | Result |
|----------------------------------|------------------------|---------|---|--------|
| 5 Testing of chairs | | | | |
| 5.2.2 Forward stability | EN 1022:2005 6.2 | | Seat: 600 N Horizontal: 20 N | Passed |
| 5.2.3 Sideways stability | EN 1022:2005 6.4 | | Seat: 600 N Horizontal: 20 N | Passed |
| 5.2.4 Rearwards stability | EN 1022:2005 6.6 | | Seat: 600 N Back: 180 N | Passed |
| 5.3.2 Seat and back static load | EN 1728:2000 6.2.1 | 10 | Seat: 2000 N Back: Max 700 N | Passed |
| 5.3.3 Seat and back durability | EN 1728:2000 6.7 | 100.000 | Seat: 1250 N Back: 300 N | Passed |
| 5.3.4 Seat front edge durability | EN 1728:2000 6.8 | 50.000 | Vertical: 800 N | Passed |
| 5.3.5 Sideways static load | EN 1728:2000 6.13 | 10 | Vertical: 1600 N Horizontal: Max 600 N | Passed |
| 5.3.6 Forward static load | EN 1728:2000 6.12 | 10 | Vertical: 1600 N Horizontal: Max 600 N | Passed |
| 5.3.7 Seat impact | EN 1728:2000 6.15 | 10 | Drop height: 300 mm | Passed |
| 5.3.8 Back impact | EN 1728:2000 6.16 | 10 | Drop height: 620 mm | Passed |
| 5.3.9 Static load of foot rail | EN 1728:2000 6.4 | 10 | Vertical: 1000 N | N/A |
| 5.3.10 Drop test | EN 1729-2:2012 Annex A | 5 | Drop height: 600 mm | Passed |

Order no. 605778-2
Appendix 3
Page 1 of 1
Initials laha/prni/hbs

Testing of model: 6043 RBM Ballet Medium w/armrests

Photo



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

Danish Accreditation (DANAK)

DANAK was established in 1991 in pursuance of the Danish Act No. 394 of 13 June 1990 on the promotion of Trade and Industry.

The requirements to be met by accredited laboratories are laid down in the "Danish Agency for Trade and Industry's ("Erhvervsfremme Styrelsens") Statutory Order on accreditation of laboratories to perform testing etc. and GLP inspection. The statutory order refers to other documents, where the criteria for accreditation are specified further.

The standards DS/EN ISO/IEC 17025 "General requirements for the competence of testing and calibration laboratories" and DS/EN 45002 "General criteria for the assessment of testing laboratories" describe fundamental criteria for accreditation. DANAK uses guidance documents to clarify the requirements in the standards, where this is considered to be necessary. These will mainly be drawn up by the "European co-operation of Accreditation (EA)" or the "International Laboratory Accreditation Co-operation (ILAC)" with the purpose of obtaining uniform criteria for accreditation. In addition, DANAK draws up Technical Regulations with specific requirements for accreditation that are not contained in the standards.

In order for a laboratory to be accredited it is, among other things, required:

- that the laboratory and its personnel are not subject to any commercial, financial or other pressures, which might influence their technical judgement

- that the laboratory operates a documented quality system
- that the laboratory has at its disposal all items of equipment, facilities and premises required for correct performance of the service that it is accredited to perform
- that the laboratory management and personnel have technical competence and practical experience in performing the service that they are accredited to perform
- that the laboratory has procedures for traceability and uncertainty calculations
- that accredited testing or calibration is performed in accordance with fully validated and documented methods
- that the laboratory keeps records, which contain sufficient information to permit repetition of the accredited test or calibration
- that the laboratory is subject to surveillance by DANAK on a regular basis
- that the laboratory shall take out an insurance, which covers liability in connection with the performance of accredited services

Reports carrying DANAK's logo are used, when reporting accredited services and show that these have been performed in accordance with the rules for accreditation.

