

Test Report

Report No.: 758882-2



**DANISH
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INSTITUTE**

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Order no.:
No. of appendices: 3

Subject: Model: Mood Learn MOE15

| | | | | | |
|------------|----------------|--------|--------|---------|--------|
| Type: | Chair | | | | |
| Depth: | 640 mm | Width: | 670 mm | Height: | 805 mm |
| Weight | 8.10 kg | | | | |
| Materials: | Plastic, steel | | | | |

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 19-05-2017.

Method: **EN 1729-1:2015** Furniture – Chairs and tables for educational institutions - Part 1: Functional dimensions. Measured according to table A.1.

EN 1729-2:2012+A1:2015 Furniture – Chairs and tables for educational institutions - Part 2: Safety requirements and test methods. Loading according to EN 1729-2:2012+A1:2015 highest level.

Period: The testing was carried out from 22-05-2017 to 20-06-2017.

Result: Model Mood Learn MOE15 fulfils the requirements in EN 1729-1:2015, Table A.1 and the requirements in EN 1729-2:+A1:2015.
It fulfils the requirements of size mark 6, colour code Blue.

Individual results appear from Appendices 1 and 2.

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: 21-06-2017, Danish Technological Institute, Wood Technology, Taastrup

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Testing of Model: Mood Learn MOE15

EN 1729-1:2015 – Table A.1 – Chair

| Size mark | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Colour code | White | Orange | Violet | Yellow | Red | Green | Blue | Brown |
| Popliteal range (without shoes) | 200-250 | 250-280 | 280-315 | 315-355 | 355-405 | 405-435 | 435-485 | 485+ |
| Stature range (without shoes) | 800-950 | 930-1160 | 1080-1210 | 1190-1420 | 1330-1590 | 1460-1765 | 1590-1880 | 1740-2070 |
| h ₈ Seat height ± 10 | 210 | 260 | 310 | 350 | 380 | 430 | 460 | 510 |
| Measured | | | | | | ✓ | 400-530 | ✓ |
| t ₄ Effective seat depth ± 15 mm (0-2) ± 25 mm (3-7) | - | - | - | 300 | 340 | 380 | 420 | 460 |
| Measured | | | | | | ✓ | 430 | ✓ |
| b ₃ Seat width | 210 | 240 | 280 | 320 | 340 | 360 | 380 | 400 |
| Measured | | | | | | ✓ | ✓ | 418 |
| x Distance between Point S and back of seat pad (max.) | - | - | - | 30 | 30 | 50 | 50 | 50 |
| Measured | | | | | | ✓ | ✓ | N/A |
| h ₇ Backrest height (min.) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Measured | | | | | | ✓ | ✓ | 354 |
| b ₄ - Width of backrest (min.) | - | - | - | 260 | 270 | 300 | 330 | 360 |
| Measured | | | | | | ✓ | 345 | ✓ |
| r ₂ Horizontal radius of backrest (min.) | - | - | - | 300 | 300 | 300 | 300 | 300 |
| Measured | | | | | | ✓ | ✓ | ✓ |

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Testing of Model: Mood Learn MOE15

| Size mark | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--|-------|--------|--------|-------------|-------------|-------------|-------------|-------------|
| Colour code | White | Orange | Violet | Yellow | Red | Green | Blue | Brown |
| α Inclination of seat (min.) | - | - | - | -5° to +7° | -5° to +7° | -5° to +7° | -5° to +7° | -5° to +7° |
| Measured | | | | | | ✓ | ✓ | 6.7 |
| γ Angle between seat and backrest | - | - | - | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° | 95° to 110° |
| Measured | | | | | | ✓ | ✓ | 100 |
| p Height of armrest above seat -20 to +10 | - | - | - | 170 | 190 | 210 | 230 | 250 |
| Measured | | | | | | N/A | N/A | N/A |
| r Width between arms | - | - | - | 360-410 | 390-440 | 420-470 | 460-510 | 510-570 |
| Measured | | | | | | N/A | N/A | N/A |
| q Distance from backrest to front edge of armrest (max.) | - | - | - | - | 225 | 250 | 275 | 300 |
| Measured | | | | | | N/A | N/A | N/A |
| o Width of armrest (min.) | - | - | - | - | 20 | 20 | 20 | 20 |
| Measured | | | | | | N/A | N/A | N/A |
| n Length of armrest (min) | - | - | - | - | 80 | 80 | 80 | 80 |
| Measured | | | | | | N/A | N/A | N/A |
| It fulfils the requirements of size mark: 6 | | | | | | | | |

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Table F.2 Point S Range for Size Mark

| Size mark | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|-------|--------|--------|---------|---------|---------|---------|---------|
| Colour code | White | Orange | Violet | Yellow | Red | Green | Blue | Brown |
| S-point | N/A | N/A | N/A | 160-210 | 170-220 | 180-230 | 190-240 | 200-250 |
| Measured | | | | | | ✓ | 200 | ✓ |

| | Result |
|------------------------------------|--------|
| Buttock zone meets the requirement | Passed |
| Lumbar support | Passed |

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Loading according to EN 1729-2:2012+A1:2015

| Testing | Test Method | Cycles | Loading | Result |
|--|---|---------|--|--------|
| 5 Testing of chairs | | | | |
| 5.2.2 Forward stability | EN 1022:2005 6.2 or 8.2 | | Seat: 600 N Horizontal: 20 N | Passed |
| 5.2.3.1 Sideways stability for chairs without armrests | EN 1022:2005 6.4 or 8.2 | | Seat: 600 N Horizontal: 20 N | Passed |
| 5.2.3.2 Sideways stability for chairs with armrests | EN 1022:2005 6.4, 8.2 | | Seat: 600 N Horizontal: 20 N | N/A |
| 5.2.4 Rearwards stability | EN 1022:2005 6.6 or 8.5 | | Seat: 600 N Back: 180 N | Passed |
| 5.2.5 Chairs with backrest inclination | EN 1335-3:2009, 7.17 | | | N/A |
| 5.3.2 Seat and back static load | EN 1728:2012, 6.4 | 10 | Seat: 2000 N Back: Max 700 N | Passed |
| 5.3.3 Seat and back durability | EN 1728:2012 6.17 | 100.000 | Seat: 1250 N Back: 300 N | Passed |
| 5.3.4 Seat front edge durability | EN 1728:2012 6.18 | 50.000 | Vertical: 800 N | Passed |
| 5.3.5 Sideways static load | EN 1728:2012 6.16 | 10 | Vertical: Max. 1600 N Horizontal: Max 600 N | Passed |
| 5.3.6 Forward static load | EN 1728:2012 6.15 | 10 | Vertical: Max. 1600 N Horizontal: Max 600 N | Passed |
| 5.3.7 Seat impact | EN 1728:2012 6.24 | 10 | Drop height: Max. 300 mm | Passed |
| 5.3.8 Back impact | EN 1728:2012 6.25 | 10 | Drop height: Max. 620 mm | Passed |
| 5.3.9 Static load of foot rail | EN 1728:2012 6.8 | 10 | Vertical: max. 1300 N | N/A |
| 5.3.10 Drop test | EN 1728:2012 6.27.3 | 5 | Drop height: 600 mm | Passed |
| 5.3.11 Foot rest durability | EN 1728:2012, 6.21 | 50.000 | Max. 1000 N | N/A |
| 5.3.12 Armrest vertical static load | EN 1728:2012, 6.11 or EN 1335-3:2009, 7.2.3 | 50.000 | Max. 1000 N | N/A |
| 5. Marking | EN 1729-1:2015 | | | Passed |
| 6. Instructions | EN 1729-1:2015 | | | Passed |

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Photo

