

# Test Report

Report Number:  
250251-8



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

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Init.: JHA/JNAS  
Order no.: 250251  
Encl.: 2

**Assignor:** FREDERICIA FURNITURE A/S, Treldevej 183, DK-7000 Fredericia

**Item :** 16000 J16 Rocking Chair

**Sampling:** The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 29 October 2024.

**Period:** The test took place from 12 November 2024 to 10 December 2024.

**Method:** EN 16139:2013, Furniture - Strength, durability and safety - Requirements for non domestic seating  
EN 16139 Test severity L1: General use: E.g. in office buildings, showrooms, public halls, function rooms, cafés, restaurants, canteens, banks, bars.  
Additional information is given in enclosure B.

**Test results:** **Passed.**  
The results are shown in enclosure A.

**Terms:** This test was conducted accredited in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.

**Place:** Danish Technological Institute, Taastrup, Building and Construction

**Signature:** This document is only valid with a digital signature from Danish Technological Institute.  
Date of issue 10 December 2024.  
Jan Hansen  
Technical consultant



**DANAK**  
TEST Reg.no. 2



## Test of Model: 16000 J16 Rocking Chair

### *Loading according to test severity L1.*

| Test no. | 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 1335         |                  |                               | N/A    |
| 4.3.3    | Non swivelling chairs                                          | EN 1022         |                  |                               | Passed |
| 4.4      | Rolling resistance of the unloaded chair                       | EN 16139, 4.4   |                  |                               | N/A    |
| 5        | Safety, strength and durability requirements                   | EN 16139, 5     |                  |                               | Passed |
| 6.1.1    | Seat static load and back static load test                     | EN 1728, 6.4    | 10<br>10         | Seat: 1600 N<br>Back: 560 N   | Passed |
| 6.1.2    | Seat front edge static load                                    | EN 1728, 6.5    | 10               | Seat: 1300 N                  | Passed |
| 6.1.3    | Vertical load on back rests                                    | EN 1728, 6.6    | 10               | Seat:<br>Back:                | N/A    |
| 6.1.4    | Foot rest static load test                                     | EN 1728, 6.8    | 10               |                               | N/A    |
| 6.1.4    | Leg rest static load test                                      | EN 1728, 6.9    | 10               |                               | N/A    |
| 6.1.5    | Arm rest sideways static load test                             | EN 1728, 6.10   | 10               | 400 N                         | Passed |
| 6.1.6    | Arm rest downwards static load test                            | EN 1728, 6.11   | 5                | 750 N                         | Passed |
| 6.1.7    | Vertical upwards static load on arm rests                      | EN 1728, 6.13   | 10               |                               | N/A    |
| 6.1.8    | Combined seat and back durability test                         | EN 1728, 6.17   | 100000<br>100000 | Seat: 1000 N<br>Back: 300 N   | Passed |
| 6.1.9    | Seat front edge durability test                                | EN 1728, 6.18   | 50000            | 800 N                         | Passed |
| 6.1.10   | Arm rest durability test                                       | EN 1728, 6.20   | 30000            | 400 N                         | Passed |
| 6.1.11   | Foot rest durability test                                      | EN 1728, 6.21   | 50000            |                               | N/A    |
| 6.1.12   | Leg forward static load test                                   | EN 1728, 6.15   | 10               | Edge:<br>(Seat: )             | N/A    |
| 6.1.13   | Legs sideways static load test                                 | EN 1728, 6.16   | 10               | Edge: 400 N<br>(Seat: 1000 N) | Passed |
| 6.1.14   | Seat impact test                                               | EN 1728, 6.24   | 10               | 240 mm                        | Passed |
| 6.1.15   | Back impact test                                               | EN 1728, 6.25   | 10               | 210 mm / 38 °                 | Passed |
| 6.1.16   | Arm Impact Test                                                | EN 1728, 6.26   | 10               | 210 mm / 38 °                 | Passed |
| 6.1.17   | Drop test (multiple seating)                                   | EN 1728, 6.27.1 | 2 x 5            |                               | N/A    |
| 6.1.18   | Auxiliary writing surface static load test                     | EN 1728, 6.14   |                  |                               | N/A    |
| 6.1.19   | Auxiliary writing surface durability test                      | EN 1728, 6.22   | 10000            |                               | N/A    |
| 7        | Information for use                                            | EN 16139, 7     |                  |                               | Passed |



## Information required by EN 16139:2013

### European Standards used:

EN 16139:2013 - Furniture - Strength, durability and safety - Requirements for non-domestic seating

EN 1728/AC:2012 - Domestic furniture - Seating - Test methods - Determination of strength and durability

EN 1022:2005 - Domestic furniture - Seating - Determination of stability

EN 1335:2009 - Office furniture - Office work chair - Part 3: Test methods

### Measurement uncertainty:

Decision rule according to EN ISO IEC 17025:2018 clause 3.7: No account is taken of measurement uncertainty when reporting numerical results.

### Details of tested seating:

|            |                                  |        |        |         |               |         |         |
|------------|----------------------------------|--------|--------|---------|---------------|---------|---------|
| Model:     | 16000 J16 Rocking Chair          |        |        | Type:   | Rocking chair |         |         |
| Length:    | 625 mm                           | Depth: | 790 mm | Height: | 1100 mm       | Weight: | 8.18 kg |
| Materials: | Walnut, woven seat of paper cord |        |        |         |               |         |         |

### Details of defects observed before testing:

None.

### Details of any deviations from this standard:

None.

### Any variation from the specified temperature range:

None.

### Test result:

See appendix A.

### Name and address of the test facility:

Danish Technological Institute, Gregersensvej, Taastrup 2630, Denmark

### Date of test:

2024-11-12 to 2024-12-10

### Storage:

The test material will be destroyed 1 month after the test is completed, unless otherwise agreed in writing.



Photo of the received sample:

