

Test Report

Report Number:
168023-10



**DANISH
TECHNOLOGICAL
INSTITUTE**

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Init.: JHA/JNAS
Order no.: 168023
Encl.: 3

Assignor: FOUR DESIGN DANMARK APS, Hvidkærvej 2 C, DK-5250 Odense SV

Item : FourCast® 2 Four Wood - Veneer

Sampling: The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 7 March 2024.

Period: The test took place from 12 March 2024 to 4 April 2024.

Method: EN 16139:2013, Furniture - Strength, durability and safety - Requirements for non domestic seating
EN 16139 Test severity L2: Extreme use: E.g. in night-clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).
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 12 April 2024.
Jan Hansen
Technical consultant



DANAK
TEST Reg.no. 2



Test of Model: FourCast® 2 Four Wood - Veneer

Loading according to test severity L2.

| 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 10 | Seat: 2000 N Back: 700 N | Passed |
| 6.1.2 | Seat front edge static load | EN 1728, 6.5 | 10 | Seat: 1600 N | Passed |
| 6.1.3 | Vertical load on back rests | EN 1728, 6.6 | 10 | Seat: 1800 N Back: 900 N | Passed |
| 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 | | N/A |
| 6.1.6 | Arm rest downwards static load test | EN 1728, 6.11 | 5 | | N/A |
| 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 | 200000 200000 | Seat: 1000 N Back: 300 N | Passed |
| 6.1.9 | Seat front edge durability test | EN 1728, 6.18 | 100000 | 800 N | Passed |
| 6.1.10 | Arm rest durability test | EN 1728, 6.20 | 60000 | | N/A |
| 6.1.11 | Foot rest durability test | EN 1728, 6.21 | 100000 | | N/A |
| 6.1.12 | Leg forward static load test | EN 1728, 6.15 | 10 | Edge: 620 N (Seat: 1800 N) | Passed |
| 6.1.13 | Legs sideways static load test | EN 1728, 6.16 | 10 | Edge: 560 N (Seat: 1800 N) | Passed |
| Comment | The loading was reduced from 760 N to 560 N to avoid tilting. | | | | |
| 6.1.14 | Seat impact test | EN 1728, 6.24 | 10 | 300 mm | Passed |
| 6.1.15 | Back impact test | EN 1728, 6.25 | 10 | 330 mm / 48 ° | Passed |
| 6.1.16 | Arm Impact Test | EN 1728, 6.26 | 10 | | N/A |
| 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 | 20000 | | 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

Details of tested seating:

| | | | | | | | |
|-------------------|--|---------------|--------|----------------|--------|----------------|--------|
| Model: | FourCast® 2 Four Wood - Veneer | | | Type: | Chair | | |
| Length: | 440 mm | Depth: | 520 mm | Height: | 846 mm | Weight: | 5.9 kg |
| Materials: | The chair frame is made of form-pressed veneer and shell made of Veneer. | | | | | | |

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:

2024-03-12 to 2024-04-04

Storage:

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



Photo of the received sample:





Additional Information

Photos

