

Test Report

Report Number:
118115-2



**DANISH
TECHNOLOGICAL
INSTITUTE**

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Init.: JHA/JNAS
Order no.: 118115
Encl.: 2

Assignor: Savir Design, Vejle A/S, Sadelmagervej 14, DK-7100 Vejle

Item : **Reflect 2 - 4 Legs**

Sampling: The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 17 January 2022.

Period: The test took place from 14 January 2022 to 10 February 2022.

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 11 February 2022.
Jan Hansen
Technical consultant



DIGITALLY SIGNED DOCUMENT

14 February 2022

DANISH TECHNOLOGICAL INSTITUTE



DANAK

TEST Reg.no. 2



Test of Model: Reflect 2 - 4 Legs

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 | 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: 1600 N 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: 1300 N Back: 600 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 | 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 100000 | Seat: 1000 N 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: 500 N (Seat: 1000 N) | Passed |
| 6.1.13 | Legs sideways static load test | EN 1728, 6.16 | 10 | Edge: 300 N (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 | | | N/A |



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: | Reflect 2 - 4 Legs | | | Type: | Chair | | |
| Length: | 590 mm | Depth: | 540 mm | Height: | 815 mm | Weight: | 5.38 kg |
| Materials: | Plastic, metal | | | | | | |

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:

2022-01-14 to 2022-02-10

Photo of the received sample:

