

# Test Report

Report Number:  
118115-1



**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, Sledge

**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 17 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, Sledge

### *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: 250 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:

<b>Model:</b>	Reflect 2, Sledge			<b>Type:</b>	Chair		
<b>Length:</b>	590 mm	<b>Depth:</b>	545 mm	<b>Height:</b>	820 mm	<b>Weight:</b>	6.46 kg
<b>Materials:</b>	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:

2022-01-17 to 2022-02-10

### Photo of the received sample:

