

# Test Report

Report Number:  
275994-5-NDS



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

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Init.: JHA/JNAS  
Order no.: 275994  
Encl.: 2

**Assignor:** +HALLE A/S, Europaplads 16, DK-8000 Aarhus C

**Item:** **Shrinx Lounge Chair.** See enclosure B for detailed sample description.

**Sampling:** The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 5 September 2025.

**Period:** The test took place from 9 September 2025 to 5 November 2025.

**Method:** EN 16139:2025, 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.  
Additional information is given in enclosure B.

**Test results:** **Passed.**  
The detailed 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. Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

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

**Signature:** This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature.  
Jan Hansen  
Technical consultant



**DANAK**

TEST Reg.no. 2



## Test of Model: Shrinx Lounge Chair

### *Loading according to test severity L2.*

#### 4 Safety

Test no.	Test	Test Method	Result
4.1	General requirements	EN 16139, 4.1	Passed
4.2	Holes and tubular/rigid components	EN 16139, 4.2	N/A
4.3.2	Shear and compression points when setting up and folding	EN 16139, 4.3.2	N/A
4.3.3	Shear and compression points under influence of non-electrically powered mechanisms	EN 16139, 4.3.3	N/A
4.3.4	Shear and compression points during use	EN 16139, 4.3.4	Passed

#### 4.4 Stability (other) - EN 1022:2023

Test No.	Test	Loading	Result
EN 1022, 7.3.1	Forwards overturning	Vertical force, N Horizontal force, N	Passed
EN 1022, 7.3.2	Forwards overturning for seating with footrest	Vertical force, N Horizontal force, N	N/A
EN 1022, 7.3.3	Corner stability test	Vertical force, N	Passed
EN 1022, 7.3.4	Sideways overturning, all seating without armrests	Vertical force, N Horizontal force, N	N/A
EN 1022, 7.3.5.2	Sideways overturning, all other seating - Seating with arm rests	Vertical force seat, N Vertical force armrest, N Horizontal force, N	Passed
EN 1022, 7.3.5.3	Sideways overturning, all other seating - Seating with raised edges	Vertical force seat, N Vertical force armrest, N Horizontal force, N	N/A
EN 1022, 7.3.6	Rearwards overturning, all seating with back rests	Vertical force, N Horizontal force, N	Passed
<b>Additional test procedures for seating with reclining back rests</b>			
EN 1022, 7.4.2	Tilting seating	Back angle, ° Load, discs	N/A
EN 1022, 7.4.3	Reclining seating with leg rest	Back angle, ° Z distance, mm	N/A
EN 1022, 7.4.4	Reclining seating without leg rest	Back angle, ° Z distance, mm	N/A
EN 1022, 7.4.5	Rearwards stability test for rocking chairs	Back angle, ° Load, discs	N/A



#### 4.5 Strength and durability

Test no.	Test	Test Method	Cycles	Load	Result
4.5.1.1	Seat static load and back static load test	EN 1728, 6.4	10	Seat: 2000 N Back: 700 N	Passed
4.5.1.2	Seat front edge static load test	EN 1728, 6.5	10	Seat: 1600 N	Passed
4.5.1.3	Vertical static load on back	EN 1728, 6.6	10	Seat: 1800 N Back: 900 N	Passed
4.5.1.4.1	Foot rest static load test	EN 1728, 6.8	10		N/A
4.5.1.4.2	Leg rest static load test	EN 1728, 6.9	10		N/A
4.5.1.5	Arm rest sideways static load test	EN 1728, 6.10	10	900 N	Passed
4.5.1.6	Arm rest downwards static load test	EN 1728, 6.11	5	900 N	Passed
4.5.1.7.1	Vertical upwards static load on arm rests	EN 1728, 6.13.1	10		N/A
4.5.1.7.2	Vertical upwards static load on arm rests (Stacking seating)	EN 1728, 6.13.2			N/A
4.5.1.8	Combined seat and back durability test	EN 1728, 6.17	200000	Seat: 1000 N Back: 300 N	Passed
4.5.1.9	Seat front edge durability test	EN 1728, 6.18	80000	800 N	Passed
4.5.1.10	Seat side.to.side durability test	EN 16139, Annex B	20000		N/A
4.5.1.11	Arm rest durability test	EN 1728, 6.20	60000	400 N	Passed
4.5.1.12	Footrest durability test	EN 1728, 6.21	60000		N/A
4.5.1.13	Leg rest durability test	EN 16139, Annex C	20000		N/A
4.5.1.14	Leg forward static load test	EN 1728, 6.15	10	Edge: 620 N (Seat: 1800 N)	Passed
4.5.1.15	Legs sideways static load test	EN 1728, 6.16	10	Edge: 620 N (Seat: 1800 N)	Passed
4.5.1.16	Seat impact test	EN 1728, 6.24	10	300 mm	Passed
4.5.1.17	Backward fall test	EN 1728, 6.28	5		Passed
4.5.1.18	Back impact test	EN 1728, 6.25	10		N/A
4.5.1.19	Arm rest impact test	EN 1728, 6.26	10	330 mm / 48 °	Passed
4.5.1.20	Drop test (multiple seating)	EN 1728, 6.27.1	2 x 5		N/A
4.5.1.21	Auxiliary writing surface static load test	EN 1728, 6.14	10		N/A
4.5.1.22	Auxiliary writing surface durability test	EN 1728, 6.22	20000		N/A

#### 5 Documentation

Test no.	Test	Test Method	Result
5	Information for use	EN 16139, 5 clause a to g.	Passed



## Methods

The following standard method is used in this test report:

EN 16139:2025	Furniture - Strength, durability and safety - Requirements for non domestic seating
EN 1728:2012/AC:2013	Furniture - Seating - Test methods for the determination of strength and durability
EN 1022:2023	Furniture - Seating - Determination of stability

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.

## Sample

Description of the item tested:

Model:	<b>Shrinx Lounge Chair</b>
Type:	Other seating (not lounger)
Armrests:	Yes
Legrest:	No
Width:	950 mm
Length:	760 mm
Height:	720 mm
Weight:	16.4 kg
Materials:	Metal, foam, upholstery



Photo of the sample as received:

