

REPORT

issued by an Accredited Testing Laboratory

Contact person RISE

Robert Almqvist

Building Technology
+46 10 516 58 58
robert.almqvist@ri.se

2017-11-16

Date

7F024199A

Reference

Page 1 (1)



Jonas Ihreborn AB Expovägen 5 331 42 VÄRNAMO SWEDEN

Testing of seating furniture according to EN 16139:2013

(3 appendices)

Customer: Jonas Ihreborn AB

Test object/ID: Modular sofa/Blob

Test method: EN 16139:2013 Furniture - Strength, durability and safety -

Requirements for non-domestic seating. Test level 1

Scope: Complete test

Date of test: 2017-10-06 – 2017-11-03

Test result: The tested object passed the test

Reservation: The test results in this report apply solely to the specimen tested

Test environment: $23 \pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ relative humidity

RISE Research Institutes of Sweden AB Building Technology - Wood Technological Assessment

Performed by Examined by

Robert Almqvist Bengt-Åke Andersson

Appendices

- 1. Test result (3 pages)
- 2. Description of test object (1 page)
- 3. Pictures (1 page)

RISE Research Institutes of Sweden AB





Test result

N/A = Not applicableN/T = Not testedAbbreviations:

Table 1

1.	Safety	EN 16139	Result
1.1		4.1	Pass
	General requirements		
	The seating shall be so designed as to minimise the risk of injury to the user.		
	All accessible parts shall be so designed that physical injury and damage are avoided.		
	This requirement is met when:		
	a) accessible corners are rounded or chamfered;		
	b) the edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded or chamfered;		
	c) the edges of handles are rounded or chamfered in the direction of the force applied;		
	d) all other edges are free from burrs and rounded or chamfered;		
	e) the ends of hollow components are closed or capped.		
	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.		
	It shall not be possible for any load bearing part of the seating to come loose unintentionally.		
	All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use		
1.2		4.2	Pass
	Shear and squeeze points		
	With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating operated by powered mechanisms, e.g. springs and gas lifts.		
	There shall be no shear and squeeze points created by forces applied during normal use as well as during normal movements and actions		
	Note! Shear and squeeze points that are created only during manually setting up and folding are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain.		
1.3	Delling resistance of the unlessed debain	4.4	N/A
	Rolling resistance of the unloaded chair ≥ 12 N when tested in accordance with EN 1335-3:2009, 7.4; and all castors are of the same type		
	1	l .	





Table 2

2.	Stability	EN 1022	Result
2.1	Forwards overbalancing	6.2	Pass
2.2	Forwards overturning for seating with footrest	6.3	N/A
2.3	Sideways overbalancing, all seating without arms	6.4	Pass
2.4	Sideways overbalancing, all seating with arms	6.5	Pass
2.5	Rearwards overbalancing, all seating with backs	6.6	Pass

Table 3

3.	Strength, durability	Reference EN 1728	Cycles	EN 16139 level 1	Result
3.1	Seat and back static load test	6.4	10	Seat: 1600 N Back: 560 N	Pass
3.2	Seat front edge static load test	6.5	10	1300 N	Pass
3.3	Vertical static load on back rests	6.6	10	600 N Seat: 1300 N	Pass
3.4	Foot rest and leg rest static load test	6.8 and 6.9	10	1300 N	N/A
3.5	Arm sideways static load test	6.10	10	400 N	Pass
3.6	Arm downwards static load test	6.11	5	750 N	Pass
3.7	Vertical upwards static load on arm rests for stackable seating	6.13.2	10	250 N	N/A
3.7 Annex B	Vertical upwards static load on arm rests for seating which may be moved when occupied	6.13.1	10	1200 N	N/A



3.	Strength, durability	Reference EN 1728	Cycles	EN 16139 level 1	Result
3.8	Seat and back durability test	6.17	100 000	Seat: 1000N	Pass
				Back: 300 N	
3.9	Seat front edge durability test	6.18	50 000	800 N	Pass
3.10	Arm durability test	6.20	30 000	400 N	Pass
3.11	Foot rest durability test	6.21	50 000	1000 N	N/A
3.12	Leg forward static load test	6.15	10	500 N	Pass
				Seat: 1000 N	
3.13	Leg sideways static load test	6.16	10	400 N	Pass
				Seat: 1000 N	
3.14	Seat impact test	6.24	10x2	240 mm	Pass
3.15	Back impact test	6.25	10	210 mm/38°	Pass
3.16	Arm impact test	6.26	10	210 mm/38°	Pass
3.17	Auxiliary writing surface static load test	6.14	10	300 N	N/A
3.18	Auxiliary writing surface durability test	6.22	10 000	150 N	N/A



Appendix 2

Description of test Object

Test object/ID Modular sofa/Blob

Dimensions

Width: 95 cm
Depth: 95 cm
Height: 69 cm
Seat height: 40 cm
Mass: 37.5 kg

Components

Frame: In solid wood and wood boards
Seat: Elastic band and flexible foam

Upholstery: Fabric

Sampling: The test object was selected by the customer

Date of arrival at 2017-08-23

RISE test laboratory:

Observed defects before testing: No defects

Appendix 3





Figure 1



Figure 2