

Flokk AS

Dramensveien 145

0277 Oslo

Norway

Fürth, October 02/2024

TEST REPORT No. FUHLFP2024-06126

Date sample received: September 04/2024

Period of testing: September 04/2024 - September 30/2024

Technical Director: Kerstin Scharrer

Test item: Profim Chic Lounge chair:
- HB/LB V3 (A20V3 as lowback, A10V3 as high back)
- HB/LB F (A20F as lowback, A10F as high back)

Test order: General safety tests to ANSI/BIFMA X5.4-2020

Determination:

Two high backrest samples of the model A10V3 and A10F were submitted for the test. Due to the same construction within the range, the high backrest variants (A10V3 and A10F) are considered as more critical to be tested and the test results can be taken over to the lower backrest variants.

Basis of the tests was the ANSI/BIFMA X5.4-2020 and considering the current state of the art of technique.

In summary, the test results **have satisfied** the above requirements.

Notes:

Please refer to the following pages for technical characteristics and results as well as detailed test conditions and requirements.

Reviewed by:

Tested by:

Intertek Consumer Goods GmbH

Intertek Consumer Goods GmbH



Leitung Mechanik /Lab Manager Hardlines
Frank Urbich

Sachverständiger / Technical Expert
Anh Vu (Vincent) Nguyen

Product identification:

Test sample:	Lounge chair
Model name:	Profim Chic Lounge chair:
Item number:	HB/LB V3, HB/LB F
Manufacturer:	Flokk sp. z o.o., ul. Górnicza 8, 62-700 Turek, Poland
Number of test samples:	1 sample of each model
Distributor:	Flokk
Serial number	--
Distributor's PO number:	--
Delivered on:	04.09.2024
Delivered by:	Flokk sp. z o.o.,

Product documents:

--

Scope of the investigations:

ANSI/BIFMA X5.4-2020, Public and Lounge Seating

Key to findings

P =	passed
F =	failed
n.a. =	not applicable

Applicability of measurements:

The test results refer only to the objects to be tested. The digital images in this report are intended as supplementary information and are not an integral part of this test report.

Measurement uncertainty:

Unless otherwise specified, tolerances on test equipment, measuring equipment and loading devices, shall be:

- Test weights, forces, velocities, and time, $\pm 5\%$
- Linear measurements, ± 1.5 mm (0.06 in.)
- Angles, ± 5 degrees
- Level, within 5 mm per meter (0.06 in. per linear foot) or within ± 0.3 degrees
- Cycle requirements are minimums

Test weights, forces, dimensions, angles, time, rates and velocities shall be targeted at the nominal values specified.



Test equipment list

The test equipment list contains a list of the measuring tools used and measuring equipment, gauges, templates and load weights that were used in accordance with the scope of the investigations.

Testing machines and devices as well as any connections that are necessary for the performance of tests are not an integral part of the test equipment list.

The following test equipment were available for testing in accordance with the scope of the investigations:

Clause	Test equipment	Equipment no.
General tests	Digital scale 150 kg	PM_HL_18.314
General tests	Steel ruler 500 mm	PM_HL_19.328
General tests	Band ruler 3.000 mm	PM_HL_18.390
General tests	Digital calliper	PM_HL_17.044
Loading tests	Dynanometer 1.000 N	PM_HL_17.026
Strength test	Pressure force-measuring cell 5 kN	PM_HL_18.358
Strength test	Pressure force-measuring cell 5 kN	PM_HL_18.359
Strength test	Pressure force-measuring cell 5 kN	PM_HL_18.360
Strength test	Pressure force-measuring cell 5 kN	PM_HL_18.361
Strength test	Dummy	PM_HL_18.028
Strength test	Dummy	PM_HL_18.074
Strength test	Dummy	PM_HL_18.097
Strength test	Dummy	PM_HL_18.096
Strength test	Weight bag 10 x a' 10 kg	PM_HL_18.062
Strength test	Weight bag 10 x a' 1 kg	PM_HL_18.064
Strength test	ANSI/BIFMA bag	PM_HL_18.159
Strength test	Digital timer	PM_HL_17.375
Strength test	Loading disc 10 kg	PM_HL_18.230
Strength test	Loading disc 10 kg	PM_HL_18.231
Strength test	Loading disc 10 kg	PM_HL_18.232
Strength test	Loading disc 10 kg	PM_HL_18.233
Strength test	Loading disc 10 kg	PM_HL_18.234
Strength test	Loading disc 10 kg	PM_HL_18.235
Strength test	Loading disc 10 kg	PM_HL_18.236
Strength test	Loading disc 10 kg	PM_HL_18.237
Strength test	Loading disc 10 kg	PM_HL_18.238
Strength test	Loading disc 10 kg	PM_HL_18.239
Strength test	Loading disc 10 kg	PM_HL_18.240
Strength test	Loading disc 10 kg	PM_HL_18.241
Strength test	Loading disc 10 kg	PM_HL_18.242

General Testing

Technical characteristics

General dimensions (measurements in mm)

Model	A20V3	A10V3	A20F	A10F
Width	740	740	740	740
Depth	790	850	800	840
Height	740	1060	740	1060
Net weight	13.0 kg	15.2 kg	12.0 kg	18.2 kg

Materials

Shell: metal frame, cold moulded foam; frame: metal;
Glides: Teflon or felt glides

Product description

A20V3: armchair, low backrest, wire frame
A10V3: armchair, high backrest, wire frame
A20F: armchair, low backrest, 4-star base
A10F: armchair, high backrest, 4-star base

Product pictures: A10V3



Pic.1: Total view



Pic.2: Front view



Pic.3: Side view



Pic.4: Back view

Product pictures: A10F



Pic.5: Total view



Pic.6: Front view



Pic.7: Side view



Pic.8: Back view

TABLE 1 – Test Loads

Test description	Functional Load		Proof Load	
Backrest Strength Test - Horizontal - Static	667 N	1 minute	1112 N	10 seconds
Backrest Strength Test - Vertical - Static	890 N	1 minute	1334 N	10 seconds
Backrest Durability Test - Horizontal - Cyclic	334 N backrest	109 kg on the seat, 120.000 cycles	--	--
Backrest Durability Test - Vertical - Cyclic	890 N backrest	109 kg on the seat, 10.000 cycles	--	--
Seating Durability Tests - Cyclic	57 kg impact bag	97 mm drop 100.000 cycles	--	--
Drop Test - Dynamic	102 kg impact bag	152 mm drop 1 cycle	136 kg impact bag	152 mm drop 1 cycle
Leg Strength Test - Front and Side	334 N	1 minute	503 N	10 seconds
Unit Drop Test - Dynamic	180 mm drop height	1 drop each side	--	--
Rear Stability for Non-tilting Units	5 disc load 170 N	1 time	--	--
Front Stability Test	F _v = 600 N F _H = 20 N	1 time	--	--
Structural Durability Test – Side-to-Side - Cyclic	334 N	109 kg on the seat, 25.000 cycles		

Technical testing

Test description	ANSI/BIFMA X5.4, Clause	Acceptance level	Results
Types of public and lounge seating	4.1	Single seating without arms and with backrest	Style C
Backrest strength test – Horizontal – Static	5	A functional load applied once shall cause no loss of serviceability to the unit.	P
Backrest strength test – Vertical – Static	6	A functional load applied once shall cause no loss of serviceability to the unit.	P
Backrest Durability Test - Horizontal - Cyclic	7	There shall be no loss of serviceability.	P
Backrest Durability Test - Vertical - Cyclic	8	There shall be no loss of serviceability.	P
Arm Strength Test - Horizontal - Static	9	--	n.a.
Arm Strength Test - Vertical - Static	10	--	n.a.
Arm Durability Test - Horizontal - Cyclic	11	--	n.a.
Arm Durability Test – Vertical – Cyclic	12	--	n.a.
Arm Durability Test - Angular - Cyclic	13	--	n.a.
Seating Durability Test - Cyclic	14	There shall be no loss of serviceability to the unit.	P
Drop Test - Dynamic	15	A functional load shall cause no loss of serviceability.	P
Leg Strength Test - Front and Side	16	Functional load(s) applied once in each direction shall cause no loss of serviceability.	P
Unit Drop Test - Dynamic	17	There shall be no loss of serviceability.	P
Caster/Unit Base Durability Test - Cyclic	18	--	n.a.
Swivel Test - Cyclic	19	--	n.a.
Tilt Mechanism Test - Cyclic	20	--	n.a.
Stability Tests	21	The chair shall not tip over as the result of the force application(s).	P
Tablet Arm Load Ease Test - Cyclic	22	--	n.a.
Tablet Arm Load Test - Static	23	--	n.a.
Structural Durability Test – Side-to-Side - Cyclic	24	There shall be no loss of serviceability.	P
Cycle Tests for Recliners	25	--	n.a.
Legrest Strength Test	26	--	n.a.
Footrest Static Load Test for Stools - Vertical	27	--	n.a.
Footrest Durability Test for Stools - Vertical	28	--	n.a.

General note:

This report has been prepared for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authority of Intertek being obtained. Intertek accepts no responsibility or liability for the consequences of this document being used for a purpose other than the purposes for which it was commissioned. Any person using or relying on the document for such other purposes agrees and will by such use or reliance be taken to confirm his agreement to indemnify Intertek for all loss or damage resulting therefrom. Intertek accepts no responsibility or liability for this document to any party other than the person by whom it was commissioned.

We would like to point out, that Intertek can't provide legally binding assessments referring to isolated cases. The individual legal advice in Germany is reserved to the legal advisory professions and a binding interpretation is subject to the court of justice.

Copying excerpts or otherwise reproducing parts of the test report is permitted only with the consent of the laboratory accepting the order. This report pertains only to the test item(s).

All testing requests are subject to our Terms and Conditions available on www.intertek.com.

END OF REPORT

