AB 1766

Laboratorium Badawcze INT

Test Report No: LB/01/0580/25

Issue date: 02.07.2025

Customer data:	INTAR TOOLS Rozdejczer Spółka Jawna Parole, ul. Szeroka 77 05-831 Młochów
Tested item:	Office chair
Tested item identification:	1. Office upholstered chair KA-VELIA
Testing location:	Laboratorium Badawcze INT ul. Międzyleska 4 50-514 Wrocław
Date of receipt:	24.04.2025
Testing date (beginning – ending):	25.04.2025 – 26.06.2025
Test methods:	EN 1335-1:2020+A1:2022 ISO 24496:2021 EN 1335-2:2018 EN 1728:2012 + EN 1728:2012/AC:2013 EN 1022:2018
Additions, deviations or exclusions:	Not applicable

Preparation	Review	Authorization
Radosław Kociankowski *Junior Test Specialist*	*Przemysław Łukawski* *Test Specialist*	*Przemysław Łukawski* *Test Specialist*

INSTYTUT NADZORU TECHNICZNEGO Sp. z o.o.
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The test report and test results relate only to the tested items.
The test report shall not be reproduced except in full without approval of the laboratory.

1) Environmental conditions

Environmental conditions during tests, based on monitoring records:

1.	Temperature	21,3 °C - 23,5 °C
2.	Humidity	32,2 %RH - 46,1 %RH

2) Tested item identification:

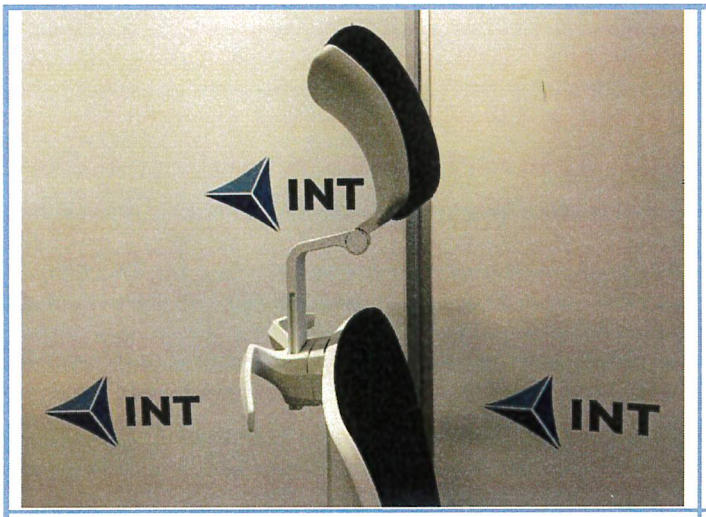
Office upholstered chair KA-VELIA

Description and condition of the item: Office chair on metal, five-armed star base with castors. Seat and backrest upholstered. Plastic armrests with height adjustment. Chair with reclinable backrest by knob operation. Seat height adjustment with gas spring operated by lever. Under the seat, button for seat depth adjustment. Chair equipped with headrest adjustable in height and angle.

Dimensions:	Detailed dimensions below in report (p. 4-6)	**Mass [kg]:**	18,135

Pic. 1

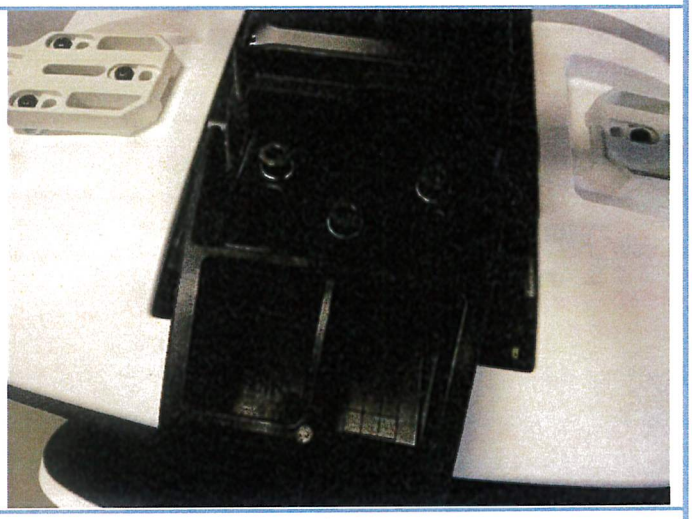
Pic. 2



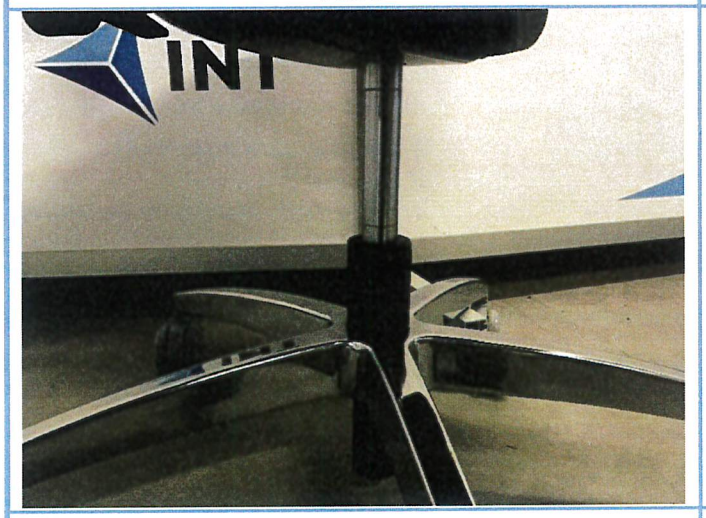
Pic. 3

Pic. 4

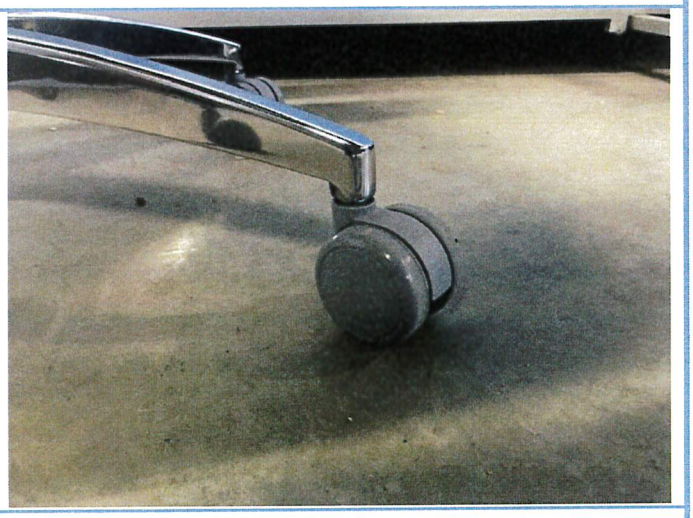
Pic. 5



Pic. 6



Pic. 7



Pic. 8

3) Test results

Requirements and test methods according to EN 1335-1:2020+A1:2022 and ISO 24496:2021

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
Maximum vertical height of the lumbar support f max Reference: ISO 24496:2021, 6.3.1.1, C	(300,00 ± 16,18) mm	Positive (Type Ax)	-
Minimum vertical height of the lumbar support f min Reference: ISO 24496:2021, 6.3.1.1, D, E	(150,00 ± 10,74) mm	Positive (Type Ax)	-
Lumbar support height adjustment range f max – f min Reference: ISO 24496:2021, 6.3.1.1, E Paragraph immediately below Table 2	(150,00 ± 11,55) mm	Positive (Type Ax)	-
Angle between seat and back γ Reference: ISO 24496:2021, 6.3.1.2	(90,00 ± 1,43)°	Positive (Type Ax)	-
Backrest inclination range I Reference: ISO 24496:2021, 6.3.1.2	(22,70 ± 0,93)°	Positive (Type Ax)	-
Seat pad angle adjustable / Seat pad angle fixed: minimum e (min.) Reference: ISO 24496:2021, 6.3.1.2	(-10,50 ± 0,74)°	Positive (Type Ax)	-
Seat pad angle adjustable / Seat pad angle fixed: maximum e (max.) Reference: ISO 24496:2021, 6.3.1.2	(0,20 ±0,15)°	Positive (Type Ax)	-
Seat height, minimum. a (min.) Reference: ISO 24496:2021, 6.3.2.1, 6.3.2.2	(386,70 ± 3,02) mm	Positive (Type B)	-
Sitting height, minimum. a (min) Reference: ISO 24496:2021, 6.3.2.1, 6.3.2.2	Not applicable	Not applicable	-

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
Adjustable depth of the seat / Fixed depth of the seat b (min.) Reference: ISO 24496:2021, 6.3.2.3	(425,00 ± 3,86) mm	Positive (Type A)	-
Backrest height h (min.) Reference: ISO 24496:2021, 6.3.2.4	(608,00 ± 2,67) mm	Positive (Type Ax)	-
Maximum distance from the backrest to the front of the armrests q (max.) Reference: ISO 24496:2021, 6.3.2.5	(321,00 ± 4,99) mm	Positive (Type B)	-
Height of armrests adjustable / Height of armrests not adjustable p (min.) Reference: ISO 24496:2021, 6.3.2.7	(215,00 ± 2,45) mm	Positive (Type B)	-
Seat height maximum a (max.) Reference: ISO 24496:2021, 6.3.3.1, 6.3.3.2	(491,70 ± 3,74) mm	Positive (Type C)	-
Sitting height max a (max) Reference: ISO 24496:2021, 6.3.3.1, 6.3.3.2	Not applicable	Not applicable	-
Adjustable depth of the seat / Fixed depth of the seat b (max.) Reference: ISO 24496:2021, 6.3.3.3	(496,00 ± 4,47) mm	Positive (Type Ax)	-
Backrest height h (max.) Reference: ISO 24496:2021, 6.3.3.4	(688,00 ± 2,99) mm	Positive (Type Ax)	-
Height of armrests adjustable / Height of armrests not adjustable p (max.) Reference: ISO 24496:2021, 6.3.3.6	(288,00 ± 3,19) mm	Positive (Type B)	-
Seat pad width d Reference: ISO 24496:2021, 6.3.4.2	(506,00 ± 2,65) mm	Positive (Type Ax)	-

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Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
Seat pad depth c Reference: ISO 24496:2021, 6.3.4.3	(466,00 ± 2,64) mm	Positive (Type Ax)	-
Backrest width j Reference: ISO 24496:2021, 6.3.4.4	(467,00 ± 1,86) mm	Positive (Type Ax)	-
Radius of backrest k Reference: ISO 24496:2021, 6.3.4.5	>400 mm	Positive (Type Ax)	-
Armrest length n Reference: ISO 24496:2021, 6.3.4.6	(245,00 ± 1,37) mm	Positive (Type Ax)	-
Armrest width o Reference: ISO 24496:2021, 6.3.4.7	(74,00 ± 1,19) mm	Positive (Type Ax)	-
Minimum clearance between armrest assembly when armrests are in their widest position r Reference: ISO 24496:2021, 6.3.4.8	(523,00 ± 2,30) mm	Positive (Type Ax)	-
Adjustable clear distance between armrest pads / Fixed clear distance between armrest pads Z max Z min Reference: ISO 24496:2021, 6.3.4.9	(523,00 ± 3,72) mm	Positive (Type C)	-
Offset of the underframe s Reference: ISO 24496:2021, 6.3.4.10	(387,00 ± 1,88) mm	Positive (Type Ax)	-

Requirements and test methods according to EN 1335-2:2018, pt 4.1 and 4.2

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
The edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded with minimum 2 mm radius	All edges rounded with radius ≥ 2 mm or upholstered	Positive	-
The edges of handles are rounded or chamfered in the direction of the force applied	The edges of handles are rounded	Positive	-
All other edges and corners are free from burrs and rounded or chamfered	All other edges and corners are free from burrs and rounded	Positive	-
The ends of accessible hollow components are closed or capped	There are no accessible hollow components	Not applicable	-
Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided	There is no possibility to inadvertent operation of movable and adjustable parts	Positive	-
It shall be possible to operate the adjusting devices from sitting position in the chair	It is possible to adjust the chair while sitting	Positive	-
It shall not be possible for any load bearing part of the chair to come loose unintentionally	It is not possible to accidentally loose any load bearing part	Positive	-
There shall be no accessible shear and squeeze points created by parts of the chair operated by powered mechanisms, i.e. springs, gas lifts and motorized systems	There are no squeeze and shear points created by powered mechanisms	Positive	-
There shall be no accessible shear and squeeze points created by loads applied during normal use	There are no squeeze and shear points created during normal use	Positive	-

Requirements and test methods according to EN 1335-2:2018, pt 4.4 and EN 1022:2018

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
1. Corner stability Reference: EN 1022:2018 pt. 7.3.3	Chair did not tipover	Positive	-
2. Forward overturning Reference: EN 1022:2018 pt. 7.3.1	Chair did not tipover	Positive	-
3. Forward overturning for chairs with footrests Reference: EN 1022:2018 pt. 7.3.2	Chair is not equipped with footrest	Not applicable	-
4. Sideways overturning for chairs without arm rests Reference: EN 1022:2018 pt. 7.3.4	Chair is equipped with armrests	Not applicable	-
5. Sideways overturning for chairs with arm rests Reference: EN 1022:2018 pt. 7.3.5.1 and 7.3.5.2	Chair did not tipover	Positive	-
6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked Reference: EN 1022:2018 pt. 7.3.6	Chair did not tipover	Positive	-
7. Rearwards overturning for chairs with back rest inclination Reference: EN 1022:2018 pt. 7.4	Chair did not tipover	Positive	-

Requirements and test methods according to EN 1335-2:2018, pt 5.1 and EN 1728:2012 + EN 1728:2012/AC:2013

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
1. Combined seat and back static load test Reference: EN 1728:2012 pt. 7.3	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-
2. Seat front edge static load test Reference: EN 1728:2012 pt. 7.4	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-

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Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
3. Foot rest static load test Reference: EN 1728:2012 pt. 7.8	Chair is not equipped with footrest	Not applicable	-
4. Seat and back durability Reference: EN 1728:2012 pt. 7.9	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-
5. Armrests durability Reference: EN 1728:2012 pt. 7.10	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-
6.1 Armrest downward static load test – central (before stability test) Reference: EN 1728:2012 pt. 7.5	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-
6.2 Armrest downward static load test – central (after stability test) Reference: EN 1728:2012 pt. 7.5	There are no fracture of any element or joint, connections did not become loose. After the test, chair still fulfill its functions.	Positive	-

Requirements and test methods according to EN 1335-2:2018, pt 5.3 and EN 1728:2012 pt 6.30

Standard point, reference	Result[2)]	Statement of conformity with the requirement/ specifation [1)]	Comments
The rolling resistance test (after strength and durability test) Reference: EN 1728:2012 pt. 6.30	(13,800 ± 0,981) N	Positive	-
The rolling resistance test (after stability test) Reference: EN 1728:2012 pt. 6.30	(14,600 ± 1,036) N	Positive	-

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4) Opinions and interpretations

The opinions and interpretations are based on the obtained results
Not applicable

[1] The statements of conformity with the requirements according to EN 1335-1:2020 and EN 1335-2:2018 are based on the principle of „Simple acceptance" (according to the document ILAC-G8:09/2019).

[2] Given values of uncertainties are expanded uncertainty calculated for confidence interval approx. 95% and coefficient k=2. Results and connected with them uncertainty do not encompass sampling (if applicable).

End of test report.