

Furntech-AFRDI TECHNICAL REPORT No. 18539/1

**Tested to the methods specified in
AFRDI Standard 142**

***Rated Loads for Office Swivel Chairs,
and selected parts of AS/NZS 4438: 1997
Height adjustable swivel chairs (R2016)
(Incorporating amendment No.1)***

Furntech-AFRDI No.:	18539/1
Supplier:	OLG Office Pty Ltd
Supplier address:	20 Astoria Street Marsden Park NSW 2765
Product name	Ovlo Chair
Chair user mass limit:	135kg
Duty rating:	MS (Multiple Shift Operations)
Test date:	25/06/26 – 2/10/26

SUMMARY

The Ovlo Chair, as illustrated in Appendix A and detailed in Appendix B, successfully completed the testing required in AFRDI 142 *Rated Loads for Office Swivel Chairs* at 135 kg Multiple Shift operations and selected tests of AS/NZS 4438:1997 (R2016).



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TEST RESULTS (Clause 10)

10.1 Stability

REQUIREMENT	RESULT
10.1.1 Front edge overturning	Compliance
10.1.2 Forwards overturning	Compliance
10.1.3 Forwards overturning for chairs with footrests	Not Applicable
10.1.4 Sideways overturning for chairs without armrests	Not Applicable
10.1.5 Sideways overturning for chairs with armrests	Compliance
10.1.6 Rearwards overturning for chairs without backrest inclination	Not Applicable
10.1.7 Rearwards overturning for chairs with backrest inclination	Compliance

10.2 Static load tests

REQUIREMENT	RESULT
10.2.1 Seat front edge static load test	Compliance
10.2.2 Combined seat and back static load test	Compliance
10.2.3 Armrest downward static load test - Central	Compliance
10.2.4 Armrest downward static load test - Front	Compliance
10.2.5 Armrest sideways static load test	Compliance
10.2.6 Footrest static load test	Not applicable

10.3 Durability tests

REQUIREMENT	RESULT
10.3.1 Seat and back durability	Compliance
10.3.2 Armrest durability	Compliance
10.3.3 Swivel test	Compliance
10.3.4 Footrest durability	Not applicable
10.3.5 Castor and chair base durability	Compliance

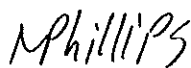
Labelling and instructions

Requirement	Result
Meet requirements for instructions and under-seat label	Compliance

Signed:

Date:

Checked by:



Michael Phillips
Testing Officer

2 October 2026

*Lee Bowkett
Team Leader

*Approved signatory

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AS/NZS 4438: 1997 *Height adjustable swivel chairs*

Selected tests only

Test level:	Level 6
Functional class:	Type 4

TEST RESULTS

Section 3 Dimensional requirements

3.3.1 General		
Dimensions	Dimensional range	Result
3.3.2 Seat height 'a'	≤ 420 to ≥ 515 mm	Compliance ¹ 430-515 mm
Seat height adjustment range	≥ 100 mm	Compliance ² 85 mm
3.3.3 Seat depth 'b'	Non-adjustable 380 to 440 mm Adjustable ≤ 380 to ≥ 480 mm	Compliance ¹ 445 mm
3.3.4 Depth of seat surface 'c'	≥ 380 mm	Compliance 475 mm
3.3.5 Seat width 'd'	≥ 400 mm	Compliance 500 mm
3.3.6 Inclination of seat surface 'e' Angular tolerance increases allowable range by 2°	Adjustable Rearwards 7° to Forwards 10°	Compliance ¹ Rearwards 4 to Rearwards 18°
3.3.7 Height 'f' of the backrest supporting point 's' above the seat surface	Non-adjustable 170 to 220 Adjustable ≤ 170 to ≥ 230 mm	Compliance ²
3.3.8 Height of the backrest 'g'	≥ 220 mm	Not Applicable
3.3.9 Height 'h'	≥ 360 mm	Compliance 610 mm
3.3.10 Backrest width 'i'	> 360 mm	Compliance 460 mm
3.3.11 Horizontal radius 'k' of backrest	> 400 mm concave	Compliance > 400 mm Concave
3.3.12 Vertical radius 'l' of backrest	convex	Compliance Convex
3.3.13 Maximum rearward projection 'm' of the backrest	≤ 1.34 × 241 = 323	Compliance 210 mm

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Dimensions	Dimensional range	Result
3.3.14 Length of armrest 'n'	≥ 200 mm	Compliance 250 mm
3.3.15 Width 'o' of armrest	≥ 40 mm	Compliance 80 mm
3.3.16 Height 'p' of armrest above seat	Adjustable < 200 to > 250 mm	Compliance ¹ 205 – 275 mm
3.3.17 Distance 'q'	≥ 100 mm	Compliance 135 mm
3.3.18 Clear width 'r' between the armrests	460 to 510 mm	Compliance 495 mm
3.3.19 Maximum off-set 'λ' of chair underframe	≤ 365 mm	Compliance ^{4,5} 380 mm
3.3.20 Stability dimension 't'	≥ 195 mm	Compliance ⁵ 241 mm
3.3.21 Dimension 'w'	No requirement	300 mm

Note 1: As a Type 4 chair, the Standard allows the dimensional range requirement to be exceeded.

Note 2: This product meets all of the strength, durability and stability requirements of the Standard but has some intentional variations to the requirements of the Functional Dimensions.

Note 3: The backrest has a flexible mesh membrane and as such it meets the range requirements Of 'f'.

Note 4: With castors fitted, 'λ' may increase by 55 mm

Note 5: Measured with 55 mm castors fitted.

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APPENDIX A

Images of chair samples as received



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Images showing detail of chair components

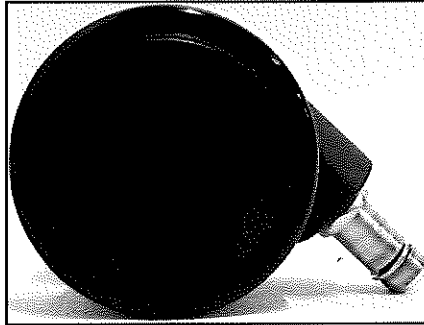


Fig. 1 Castor

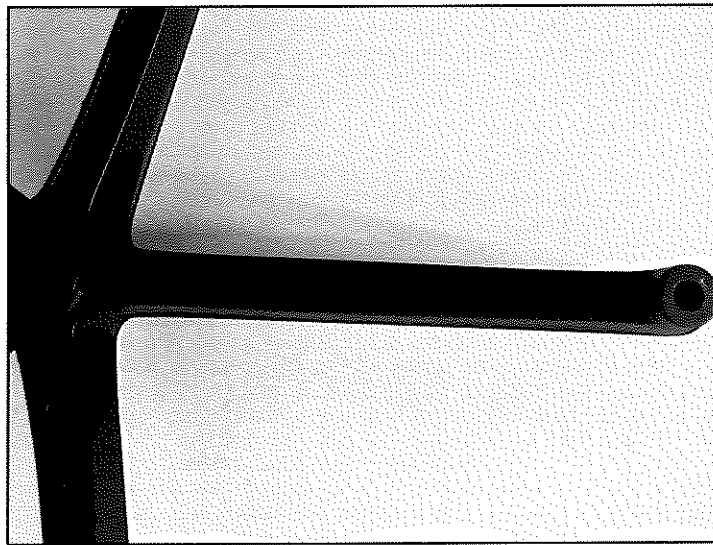


Fig. 2 Base

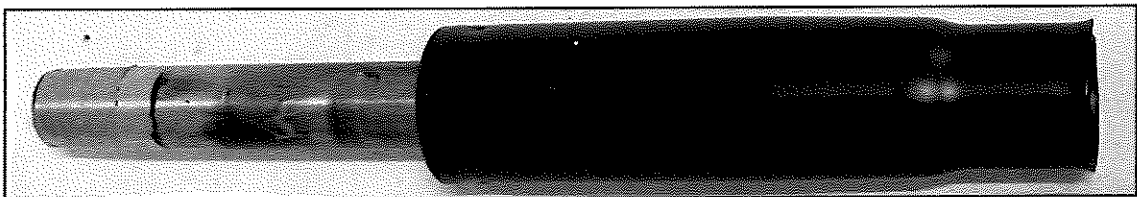


Fig. 3 Gas strut

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Images showing detail of chair components

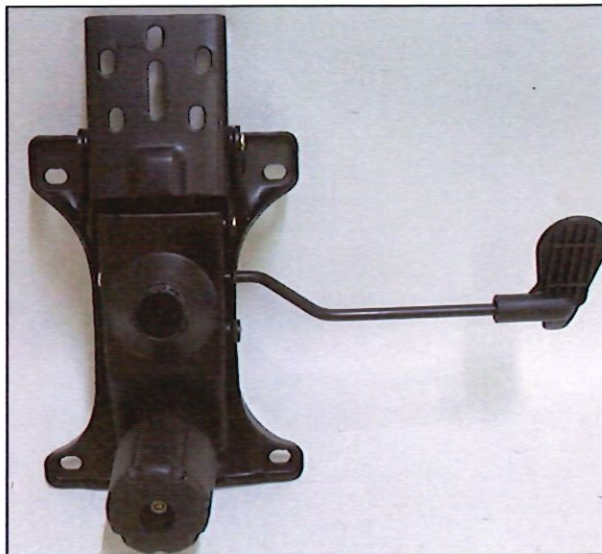


Fig. 4 Chair Mechanism



Fig.5 Seat Structure/Plastic Seat pan

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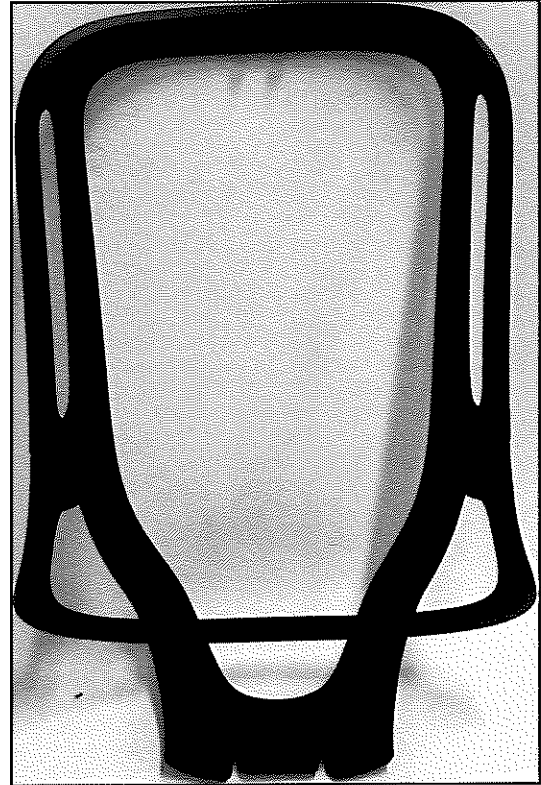


Fig.6 Backrest

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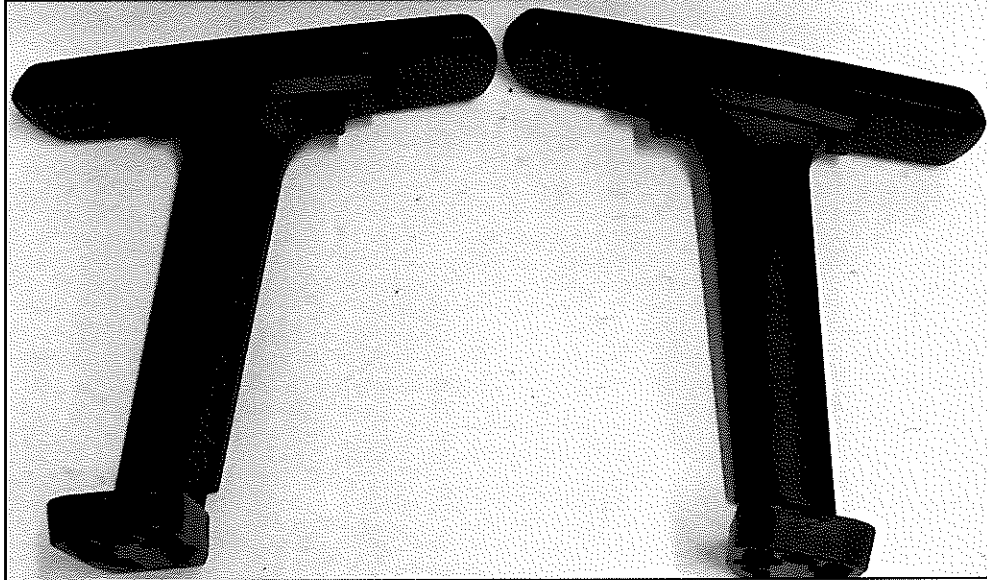


Fig.7 Arms

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APPENDIX B

DETAILED PRODUCT INFORMATION

* indicates information supplied by client.

All dimensions are nominal and include surface finish where applicable.

Castors

(See Fig. 1)

Supplier:	OLG Office*	
Model No.:	OG_OVLO- 5CASTOR*	
Specifications:	Wheel diameter	55 mm
	Tyre width	12 mm

Bases

(See Fig. 2)

Supplier:	OLG Office*	
Model No.:	OG_OVLO-NYLBASE	
Description:	5 star Black Nylon Base	
Specifications:	Diameter to pintle hole centres	670mm

Gas struts

(See Fig. 3)

Supplier:	OLG Office*
Model No.:	OG_OVLO-GASLIFT

Chair mechanism

(See Fig. 4)

Supplier:	OLG Office*
Model No.:	OG_OVLO-MECH*
Description:	Single lever height adjustable mechanism

Seat structure

(See Fig. 5)

Supplier:	OLG Office*	
Model No.:	OG-OVLO-SEATPAN*	
Description:	Plywood seat pan with black plastic under cover	
Specifications:	Depth x Width	490 x 485 mm
	Plywood thickness	12 mm

Backrest structure

(See Fig. 6)

Supplier:	OLG Office*
Model No.:	OG_OVLO-BACKNYL*
Description:	Mesh back frame

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Arms

(See Fig. 7)

Supplier:	OLG Office*	
Model No.:	OG_OVLO-BARM*	
Description:	Height adjustable	
Specifications.:	Arm pad length x width	250 x 80 mm
	Height range adjustment	70 mm

Seat foam

(no image)

Supplier:	OLG Office*
Model No:	OG_OVLO - SEATFOAM*
Description:	Moulded white seat foam

Tested to:	AS 2282.3 – Mean density	42 kg/m ³
	AS/NZ 4088.1 Appendix B	Non-ignition

Backrest foam

(no image)

Supplier:	OLG Office*
Model No:	OG_Ovlo-BACKMESH*
Description:	Black nylon mesh

Tested to:	AS/NZ 4088.1 Appendix B	Non-ignition
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END OF REPORT
