



Test Report

No.SDHL2104005153FT

Date: Jun 01, 2021

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ACCESS OFFICE INDUSTRIES
10 LIDDELOW STREET KENWICK W.A,6107,AUSTRALIA

Sample Description : OFFICE CHAIR
 Item No. : ECLAOC
 P.O. / Ref. No. : 14905
 Manufacturer : Access Office Industries
 Supplier :
 Country of Origin : CHINA
 Country of Destination : AUSTRALIA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Apr 06, 2021
 Test Performing Date : Apr 07, 2021 to May 08, 2021
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Section 3.2 and 3.3 of AS/NZS 4438:1997 R2016	See test result.	/
	Section 4 and 5 of AS/NZS 4438:1997 R2016 (Level 6)	PASS	/
For further details, please refer to the following page(s)			

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Bill Wang
Authorized Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.
Shunde Branch Harbin

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TESTS AND RESULTS
Test Conducted:

AS/NZS 4438:1997 R2016 – Height Adjustable Swivel Chair – Section 3.2, 3.3, 4 & 5.

No. of Sample:

2 pieces. For more sample information and pictures, please refer to the following page.

Type of Chair: Type 1. For the functional classification, please refer to Annex A in this report.

Test Severity: Level 6. For the application of service durability levels, please refer to Annex B in this report.

Section 3.2 & 3.3: Dimension Requirements

Section 6.2 Adult Dimensional Requirements					Test Results
Dimension Requirements					
Test Items		Adjustability	Dimensional range		
SEAT					
Seat height	a	Adjustable Adjustable range	≤420 to ≥515 ≥100	PASS	
Seat depth	b	Non-adjustable Adjustable	380 to 440 ≤380 to ≥480	Adjustable, max: 510 mm, min: 463 mm	
Depth of seat surface	c	---	≥380	PASS	
Width of seat	d	---	≥400	PASS	
Inclination of seat surface	e	Non-adjustable Adjustable - Maximum allowable range forward - Backward - Minimum range forward - Backward	2° to 7° 10° 7° 3° 7°	Adjustable, max: 14.9°, min: 2.9°	
BACKREST					
Height of the back supporting point “S” above	f	Non-adjustable Adjustable	170 to 220 ≤170 to ≥230	Adjustable, max: 172 mm, min: 154 mm	
Height of the back pad (Adjustable chair)	g	---	≥220	PASS	
Height of the upper edge the backrest above the seat surface (non-adjustable chair)	h	---	≥360	PASS	
Width	i	---	>360	PASS	
Horizontal radius	k	---	>400	PASS	
Curvature - Horizontal Curvature - Vertical	l	---	Concave Convex	PASS	
Maximum rearward projection	m	---	≤1.34 × t	Actual: 385 mm (t=260 mm)	


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Dimension Requirements				Test Results
Test Items	Adjustability		Dimensional range	
ARMREST				
Length	n	---	≥200	PASS
Width	o	---	≥40	PASS
Height above seat	p	Non-adjustable Adjustable	200 to 250 <200 to >250	PASS
Distance from the front of the seat surface	q	---	≥100	PASS
Clear width between the armrests	r	---	460 to 510	PASS
OTHER				
Anti-tripping-dimension	λ	---	≤365	PASS
Stability dimension	t	---	≥195	PASS
Dimension	w	---	---	No requirement, actual: 280 mm

Section 4: Strength and Durability Requirements

Test	Test Description and Requirements	Test Results
4.3.1	Seat Static Load Test Apply the downward force of 2000 N at the seat loading position for a total 10 times. Then move to a position 100mm back from the front edge of the seat and apply the same force 10 times. The chair seat shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.2	Back Static Load Test With Flexibility Assessment Load the seat with 2000 N on the seat loading position. Apply the back force of 760 N perpendicular to the back and carry out 10 cycles. The chair back shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS Flexibility quotient: 0.35
4.3.3	Arm Sideways Static Load Test Simultaneously apply the outward force of 600 N to the point along each arm most likely to cause failure. Repeat above operation for 10 times. The arm of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.4	Arm Downwards Static Load Test Apply the vertical force of 1200 N to the point along one arm most likely to cause failure for 10 times. If the chair overbalances, apply a load on the side of the seat opposite to the arm tested to prevent the chair from overbalancing. The arms of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS



Test	Test Description and Requirements	Test Results
4.3.5	Seat and Back Fatigue Test Apply the downward force of 1200 N at the seat loading position. With the downward force maintained, apply the back force of 415 N at back loading position. Remove the back load and then the seat load. Repeat above operation for 200000 cycles. The chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.6	Seat Impact Test Set the chair height to the maximum. Allow the seat impactor to fall freely from the height of 350 mm onto the seat loading position for 5 times and then using the same drop height, allow the impactor to fall onto a point as near the front edge of the seat as possible for a further 5 times. Set the chair height to the minimum and repeat above procedure for both impact points. The seat of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.7	Back Impact Test Using stops, restrain the front feet of the chair from moving forward. Allow the impact hammer to fall through the vertical height of 620 mm or angle of 68° and strike the top of the outer chair back in the center 10 times with the pendulum arm vertical. The seat of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.8	Arm Impact Test Place stops against the feet of the chair on the opposite side of the chair to the arm being tested. Using the impact hammer swung through the vertical height of 620 mm or angle of 68° and strike the outside face of the arm in an inward direction with the pendulum arm vertical at the position most likely to cause failure for a total of 10 times. The arms of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.9	Drop Test Support the chair so that the base plane is at 10 degree to the horizontal. Lift the chair to a height of 450 mm. Drop the chair onto the floor 10 times on the selected leg. The seat of the chair shall remain intact and the chair shall be free of defects that will cause either injury to the user or loss of serviceability of the chair.	PASS
4.3.10	Swiveling Test Using the small loading pad, apply the vertical downward force of 1200 N on the seat loading position. Rotate the seat of the chair through an angle of 45 degree relative to the base for the number of 100000 cycles. The swiveling mechanism shall remain in working order.	PASS



Section 5: Stability Requirements

Test	Test Description and Requirements	Test Results
5.2.1	Rearwards Overturning (All Chairs) Set the chair to the maximum height position. Position the chair so that two feet are against the stops or for a circular based chair, so that its edge is against the stop in a position most likely to cause instability. Apply a vertical force of 600 N to the seat at the SLP and apply the overturning force of horizontally to the back of the chair either at a height of 300mm above the unloaded seat or at the top edge of the backrest whichever is the lower. The chair shall not overturn.	PASS
5.2.2	Rearwards Overturning of Tilting or Reclining Chair Set the chair to the maximum height position. Place the 11 discs on the chair seat firmly settled against the contours of the back of the chair. If the discs stacked on top of each other exceed the height of the chair back, use a light stick or other means of support, to stop the upper discs from sliding off. The chair shall not overturn.	PASS
5.2.3	Accidental Rearward Overturning Set the chair to the maximum height position. Prevent rearwards movement of the chair then tilt the chair rearwards on its rear feet so that the front edge of the seat moves through a horizontal distance of 100mm. Allow the chair to fall freely. Check whether the chair overturns. The chair shall not overturn.	PASS
5.4	Rolling Stability Performance Requirement Attach soft-tyred castors to the chair. Place an unloaded chair on the piece of flat steel. Attach a force measuring device at a height of up to 250mm above the test surface. Apply a force sufficient to allow the chair to move at 50 mm/s across the floor. Record the value of the force. The unloaded chair shall have a rolling resistance of a least 12 N on a hard floor surface.	N/A



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Section 6: S Marking, Instructions

Test	Test Description and Requirements	Test Results
6.2	Instructions for use Each chair shall be supplied with instructions containing the following information: (a) Instructions on the use of adjusting mechanisms. (b) Instructions for upkeep and maintenance of the chair. (c) An outline on ergonomic seat back and height setting. (d) The manufacturer's or importer's name and address. (e) Care, flammability and summarized operating details.	N/R
6.3	Marking All chairs shall be permanently marked with the followings (a) The manufacturer's / importer's name and address. (b) The year of manufacture. (c) A label stating: 'Hard-tyred castors are unsuitable for use on hard floors or firm chairmats in which soft-tyred castors should be used. Soft-tyred castors are distinguishable by the tyre being a different color to the body of the castor'.	N/R

Table 2.1: Functional Classification

Classification	Functional category	Typical end use
Type 1	Both the lumbar support height and seat depth are adjustable	Dedicated keyboard operator chairs and multitask chairs
Type 2	Only the seat depth is adjustable, the lumbar support height is fixed	General purpose office chairs
Type 3	Neither the lumbar support height nor the seat depth are adjustable	Visitors' chairs
Type 4	Incorporates other design features and combinations of the above	Other chairs

Table 2.2: Application of Service Durability Levels

Durability level	Application
Levels 1 and 2	Not applicable to chairs covered by this Standard
Level 3	Chairs for domestic use
Level 4	Chairs for office, general keyboard and executive use
Level 5	Chairs for heavy duty office, industrial and similar applications
Level 6	Chairs for extremely severe conditions of use such as police stations, military installations, control rooms and heavy industrial

Remark:

1. N/A – Not applicable; N/R – Not requested; N/P – Not provided.
2. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 19.40 kg

Overall Dimensions: (642~695) mm D x 656 mm W x (1162~1279) mm H

Other Dimensions: /

Sample as Received



View 1



View 2



View 3



View 4



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View 5

End of Report

