

No.SDHL2108015869FT

Date: Sep 13, 2021

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ENOVA ORIGINAL FURNITURE CO.,LTD UZUO AREA, NO.18, QIAOGAO RD, XIQIAO TOWN, NANHAI DISTRICT, FOSHAN CITY, GUANGDONG PROVINCE, CHINA

Sample Description	: OFFICE CHAIR
Style / Item No.	: EVA-001B
Buyer	: ENOVA ORIGINAL FURNITURE CO.,LTD
Manufacturer	: ENOVA ORIGINAL FURNITURE CO.,LTD
Supplier	: ENOVA ORIGINAL FURNITURE CO.,LTD
Country of Destination	: UNITED STATES

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	: /	Aug 27, 2021
Test Performing Date	: /	Aug 30, 2021 to Sep 03, 2021
Test Performed	: :	Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
	Backrest Strength Test - Static - Type I and II, Backrest Strength Test		
	- Static - Type III, Drop Test – Dynamic, Stability Tests, Arm Strength		
1	Test - Vertical – Static, Arm Strength Test - Horizontal – Static and	PASS	1
	Backrest Durability Test - Cyclic - Type I of ANSI/BIFMA X5.1-2017		
	(Type I, III)		
For f	urther details, please refer to the following page(s)		

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

Mares Long

Marco Leung Authorized Signatory





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TESTS AND RESULTS

Test Conducted:

Backrest Strength Test - Static - Type I and II, Backrest Strength Test - Static - Type III, Drop Test – Dynamic, Stability Tests, Arm Strength Test - Vertical – Static, Arm Strength Test - Horizontal – Static and Backrest Durability Test - Cyclic - Type I of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

No. of Sample:

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

Chair Type: Type I, III.

Test and Requirements	Test Results	
5 Backrest Strength Test - Static - Type I and II		
5.4.1 Functional Load		
There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees \pm 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees \pm 10 degrees throughout the loading of the backrest.	PASS	
5.4.2 Proof Load		
There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1001 N (225 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees \pm 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees \pm 10 degrees throughout the loading of the backrest.	PASS	
6 Backrest Strength Test - Static - Type III		
6.4.1 Functional Load There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees \pm 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees \pm 10 degrees throughout the loading of the backrest.	PASS	
6.4.2 Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1001 N (225 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 90 degrees \pm 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees \pm 10 degrees throughout the loading of the backrest.	PASS	
7 Drop Test - Dynamic		
7.4.1 Functional Load Test There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS	



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Test and Requirements	Test Results
7.4.2 Proof Load Test There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
11 Stability Tests	
11.3.1 Rear Stability Test for Type III Chairs Place a support fixture made of a 1.5 mm \pm 0.15 mm (0.060 in. \pm 0.006 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 6 disks (10 kg each). Place the first disk on the seat using the Template from Appendix G. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a rearward force parallel to the top surface of the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk. For chairs with seat height (as measured at the front of the bottom of the lowest disk when all disks are in the chair) less than 710 mm (28.0 in.), calculate the force as follows: • F = 0.1964 (1195 – H) Newton. H is the seat height in mm. • [F = 1.1 (47 – H) pounds force.]. H is the seat height in inches. For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied. The chair shall not tip over.	PASS
11.3.2 Rear Stability Test for Type I and II Chairs Place a support fixture made of a 1.5 mm \pm 0.15 mm (0.060 in. \pm 0.006 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 13 disks. Place the first disk on the seat using the Template from Appendix G. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. If the chair does not tip over and the tilt mechanism does not tilt to its most rearward position (i.e., at its tilt stop) when the disks are placed in the chair, the chair shall also be tested according to 11.3.1 with the chair in the unlocked position. The chair shall not tip over.	PASS



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Test and Requirements	Test Results
11.4 Front Stability	
Test Procedure	
Apply a vertical load of 61kg (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the	
center of which is 60 mm (2.4 in.) from the front center edge of the load-bearing	
surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same height that	
the vertical force is applied. The force shall be coincident with the side-to-side	
centerline of the seat.	
Test Procedure - Alternate	54.00
This alternate method may be used on chairs that have a seat surface that will support	PASS
the stability loading fixture without the use of the front-stability loading disk(i.e., hard	
surfaced seats or seats with minimal cushion).	
Apply a vertical load of 61kg (135 lbf.), by means of the front stability loading fixture at	
a point 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the	
chair. Apply a horizontal force of 20 N (4.5 lbf.) at the same height that the vertical	
force is applied. The force shall be coincident with the side-to-side centerline of the	
seat.	
The chair shall not tip over as the result of the force application.	
12 Arm Strength Test - Vertical - Static	
12.4.1 Functional Load Apply on initially vertical null force of 750NL (160lbs) to the load edeptor which is 197	
Apply an initially vehical pull force of 750N (169bs.) to the load adapter which is 127	
mm (5 in.) long and at least as wide as the width of the arm shall be attached to the top	
or the arm rest structure such that the load will be applied at the apparent weakest	PASS
point that is forward of the chair backrest, for one (1) minute.	
There shall be no loss of serviceability. For a neight adjustable arm, failure to hold its	
neight adjustment position to within 6 mm (0.25 m.) from its original set position as the	
12.4.2 Proof Lood	
12.4.2 FIOULLOAU Apply an initially vortical null force of 1125NL (253 lbs.) to the load adapter which is 127	
Apply an initially vehical pull force of 1125N (255 lbs.) to the load adapter which is 127	
of the arm roat structure such that the load will be applied at the apparent weekest	
of the arm rest structure such that the load will be applied at the apparent weakest	PASS
There shall be be sudden and major change in the structural integrity of the chair. For a	
height adjustable arm, a sudden dren in height of greater than 25 mm (1 in) does not	
meight adjustable ann, a sudden drop in height of greater than 25 mm (1 m.) does not meet this requirement Loss of serviceability is acceptable	
13 Arm Strength Test - Horizontal - Static	
13 4 1 Functional Load	
Apply an initially horizontal pull force of 445 N (100 lbf.) to the load adapter which is a	
loading device or strap, not greater than 25 mm (1 in) in horizontal width, shall be	
attached to the arm so that the load is initially applied horizontally to the armrest	PASS
structure at the annarent weakest point (for armrests that nivot in the horizontal plane	17,00
apply the load at the pivot point) for one (1) minute in the outward direction	
A functional load applied once shall cause no loss of serviceability	



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Test and Requirements	Test Results
13.4.2 Proof Load Apply an initially horizontal pull force of 667 N (150 lbf.) to the load adapter which is a loading device or strap, not greater than 25 mm (1 in.) in horizontal width, shall be attached to the arm so that the load is initially applied horizontally to the armrest structure at the apparent weakest point (for armrests that pivot in the horizontal plane, apply the load at the pivot point), for 15 seconds in the outward direction. A proof load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	PASS
 14 Backrest Durability Test - Cyclic - Type I A weight of 109 kg (240 lb.) shall be secured in the center of the seat. Apply a 445 N (100 lbf.) total force to the backrest at the specified position at a rate between 10 and 30 cycles per minute. For chairs with backrest widths less than or equal to 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 120,000 cycles. For chairs with backrest widths greater than 406 mm (16 in.) at the height of the loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the position 102 mm (4 in.) to the right of the vertical centerline + 20,000 cycles at the position 102 mm (4 in.) to the left of the vertical centerline There shall be no loss of serviceability. Note: With the backrest at its back stop position, apply a force that is initially 90 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 90 degrees ± 10 degrees throughout the loading of the backrest. 	PASS

Remark:

1. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 16.65 kg

Overall Dimensions: 715 mm D x 740 mm W x (1170~1300) mm H

Other Dimensions: Base radius 355 mm

Sample as Received







End of Report



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