

Test ReportNo.: SDHL1910018640FTDate: Nov.04, 2019Page 1 of 11

MERRYFAIR CHAIR SYSTEM SDN BHD NO. 2, JALAN KORPORAT 1/KU9, TAMAN PERINDUSTRIAN MERU, KAPAR, 42200 SELANGOR, MALAYSIA.

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	:	SAGA PLUS – OFFICE CHAIR
Supplier Item No.	:	1219 TG A78 BB
Sample Receiving Date	:	Oct.15, 2019
Test Performing Date	:	Oct.16, 2019 to Nov.04, 2019

Test Result Summary

Test(s) Requested	Result(s)
ANSI/BIFMA X5.1-2017 (Type I, III)	PASS
Summary:	

1. For further details, please refer to the following page(s).

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

Bill Wang Approved signatory







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TESTS AND RESULTS

Test Conducted:

ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

No. of Sample:

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

Chair Type: Type I, III.

Test and Requirements	Test Results	
Safety, Durability and Structural Adequacy		
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
8 Swivel Test – Cyclic There shall be no loss of serviceability after 60,000cycles of rotation (360°) at a rate between 5 and 15 rotations per minute under a 122 kg (270 lb.) load on the seat. If the seat height is adjustable set the height to its lowest position, for all chairs, continue the test for an additional 60,000 cycles to a total of 120,000 cycles.	PASS
9 Tilt Mechanism Test – Cyclic There shall be no loss of serviceability to the tilt mechanism after 300,000cycles at a rate between 10 and 30 cycles per minute under a 109kg (240lbs.) load to the center of the seat. Note: This test shall be performed on Type I and Type II chairs with tilting backrests. 10 Seating Durability Tests – Cyclic	PASS
10.3 Impact Test There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 36 mm (1.4 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute. Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm \pm 6 mm (2 in. \pm 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N \pm 22 N (45 lbf. \pm 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.	PASS
10.4 Front Corner Load-Ease Test – Cyclic – Off-center After completing the impact test, alternately apply a load of 890 N (200 lbf.) through a 203 mm \pm 13 mm (8 in. \pm 0.51 in.) diameter loading device at one front corner flush to each structural edge at a rate of 10 to 30 cycles per minute for 20,000 cycles. Reposition the load to the other front corner, and perform the test for an additional 20,000 cycles. There shall be no loss of serviceability to the chair after completion of both the impact and load-ease tests. If applicable, the chair base (center structure) shall not touch the test platform as a result of the impact loads. <i>Note: Applying the loads in an alternating sequence to attain a total of 40,000 cycles is an acceptable method of performing this test.</i>	PASS



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Test and Requirements	Test Results
Test and Requirements 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	Test Results PASS
93 N (20.9 lbf.) shall be applied. The chair shall not tip over.	
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
 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 This alternate method may be used on chairs that have a seat surface that will support 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	PASS



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Test and Requirements	Test Results
12.4.1 Functional Load	
Apply an initially vertical pull force of 750N (169lbs.) 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	
of 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.	FA33
There shall be no loss of serviceability. For a height adjustable arm, failure to hold its	
height adjustment position to within 6 mm (0.25 in.) from its original set position as the	
result of the loading is considered a loss of serviceability.	
12.4.2 Proof Load	
Apply an initially vertical pull force of 1125N (253 lbs.) 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	
of 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 15 seconds.	17,00
There shall be no sudden and major change in the structural integrity of the chair. For a	
height adjustable arm, a sudden drop in height of greater than 25 mm (1 in.) 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	5400
attached to the arm so that the load is initially applied horizontally to the armrest	PASS
structure at the apparent weakest point (for armrests that pivot in the horizontal plane,	
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.	
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,	PASS
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.	
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	D 400
loading point, apply the load to the backrest for 80,000 cycles + 20,000 cycles at the	PASS
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 \pm 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.	



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Test and Requirements	Test Results
15 Backrest Durability Test - Cyclic - Type II and III A weight of 109 kg (240 lb.) shall be secured in the center of the seat. Apply a 334 N (75 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 \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
16 Caster/Chair Base Durability Test - Cyclic	
16.1 Caster/Chair Base Durability Test for Pedestal Base Chairs No loss of service after 2,000cycles over a hard surface with 3 obstacles and 98,000cycles over a smooth hard surface without obstacles under a 122kg (270lbs.) load at a rate of 10 ± 2 cycles per minute. Test stroke is 762 ± 50 mm (30 ± 2 in.) minimum. No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force.	PASS
16.2 Caster / Chair Frame Durability Test for Non-pedestal Chairs with Casters No loss of service after 2,000cycles over a hard surface with 2 obstacles and 98,000cycles over a smooth hard surface without obstacles under a 122 kg (270 lb.) load on the seat at a rate of 10 ± 2 cycles per minute. Test stroke is 762 ± 50 mm (30 ± 2 in.) minimum. No part of the caster shall separate from the chair as a result of the application of the 22 N (5 lbf.) force.	N/A
17 Leg Strength Test - Front and Side Application 17.3.2.1 Front Load Test- Functional Test	
The loading device shall be attached to the chair so that an initially horizontal force is applied inward and parallel to the front-to-rear axis of the chair, between 13 mm (0.5 in.) and 38 mm (1.5 in.) from the bottom of a leg. A force of 334N (75lbf.) is applied once to each front leg individually for 1 minute. Functional load(s) shall cause no loss of serviceability. Note: For chairs with casters, apply the load to the chair leg, but not more than 13 mm (0.5 in.) from the point of caster attachment (bottom of the leg). The load shall be applied to the apparent weakest point of the leg. Where the apparent weakest point is the left or right edge of the leg, apply the load so that it is no greater than 25 mm (1.0 in.) from the edge.	N/A



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		Test Results
ed to the chair so that an initially ront-to-rear axis of the chair, bet ottom of a leg. A force of 503N (or 1 minute. n and major change in the struc ptable. / the load to the chair leg, but no	tween 13 mm (0.5 113 lbf.) is applied tural integrity of the of more than 13 mm	N/A
bint of the leg. Where the appare bly the load so that it is no greate	ent weakest point is	
ed to the chair so that an initially ront-to-rear axis of the chair, bet ottom of a leg. A force of 334N (vidually for 1 minute. oss of serviceability. / the load to the chair leg, but no achment (bottom of the leg). The	ween 13 mm (0.5 75lbf.) is applied of more than 13 mm e load shall be	N/A
est ed to the chair so that an initially ront-to-rear axis of the chair, bet	horizontal force is ween 13 mm (0.5	
vidually for 1 minute. n and major change in the struc ptable. / the load to the chair leg, but no	tural integrity of the ot more than 13 mm	N/A
bly the load so that it is no greate		
n (2 in.) from the outside edge at ne (1) minute in the vertical dow re to the seat and allows for a fo e chair) from the primary force a rce F2 of 445 N (100 lbf.) to the one (1) minute. The F2 force sh stance along the footrest but no	t the apparent wward direction. If rce application 180 application, maintain footrest at the all also be applied t greater than 51	N/A
	ront-to-rear axis of the chair, before of 503N (or 1 minute. In and major change in the struct ptable. If the load to the chair leg, but not achment (bottom of the leg). The boint of the leg. Where the appare of the load so that it is no greated nal Test ed to the chair so that an initially ront-to-rear axis of the chair, beto bottom of a leg. A force of 334N (ividually for 1 minute. Dess of serviceability. If the load to the chair leg, but not achment (bottom of the leg). The bott of the leg. Where the appare of the load so that it is no greated est ed to the chair so that an initially ront-to-rear axis of the chair, beto bott of the leg. Where the appare of the load so that it is no greated est ed to the chair so that an initially ront-to-rear axis of the chair, beto bottom of a leg. A force of 503N (ividually for 1 minute. In and major change in the struct ptable. If the load so that it is no greated of the leg. Where the appare of the load so that it is no greated of the leg. Where the appare of the load so that it is no greated of the leg. Where the appare of the load so that it is no greated of the leg. Where the appare of the load so that it is no greated of the load so the chair leg. but no stance along the footrest but no stance alon	ed to the chair so that an initially horizontal force is ront-to-rear axis of the chair, between 13 mm (0.5 bottom of a leg. A force of 503N (113 lbf.) is applied or 1 minute. In and major change in the structural integrity of the ptable. If the load to the chair leg, but not more than 13 mm achment (bottom of the leg). The load shall be bont of the leg. Where the apparent weakest point is oly the load so that it is no greater than 25 mm (1.0 nal Test ed to the chair so that an initially horizontal force is ront-to-rear axis of the chair, between 13 mm (0.5 bottom of a leg. A force of 334N (75lbf.) is applied ividually for 1 minute. Does of serviceability. If the load so that it is no greater than 25 mm (1.0 est ed to the chair so that an initially horizontal force is ront-to-rear axis of the chair, between 13 mm (1.0 est ed to the chair so that an initially horizontal force is ront-to-rear axis of the chair, between 13 mm (0.5 bottom of a leg. A force of 503N (113 lbf.) is applied ividually for 1 minute. In and major change in the structural integrity of the ptable. If the load to the chair leg, but not more than 13 mm achment (bottom of the leg). The load shall be bont of a leg. A force of 503N (113 lbf.) is applied ividually for 1 minute. In and major change in the structural integrity of the ptable. If the load to the chair leg, but not more than 13 mm achment (bottom of the leg). The load shall be bont of the leg. Where the apparent weakest point is by the load so that it is no greater than 25 mm (1.0

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Test and Requirements	Test Results	
18.4.3 Proof Load		
Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the		
footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent	N/A	
weakest point of the structure for one (1) minute in the vertical downward direction.	IN/75	
The load applied once shall cause no sudden and major change in the structural		
integrity of the unit. Loss of serviceability is acceptable.		
19 Footrest Durability Test - Vertical – Cyclic		
A 890 N (200-lbf.) force shall be applied uniformly along a 102 mm (4 in.) distance		
along the footrest but not greater than 51 mm (2 in.) from the outside edge at the		
apparent weakest point of the structure. When the weakest position is not obvious,		
several load application positions may be necessary to properly test the product. If the		
footrest moves more than 25 mm (1 in.) within the first 500 cycles, discontinue testing.	N/A	
If the footrest moves throughout the remainder of the test, reset it to its original position	IN/75	
when it is within 12 mm (0.5 in.) from its lowest position.		
The force shall be applied and removed 50,000 cycles at a rate between 10 and 30		
cycles per minute.		
There shall be no loss of serviceability. Adjustable footrests that move more than 25		
mm (1 in.) in the first 500 cycles shall be considered to have lost their serviceability.		
20 Arm Durability Test – Cyclic		
Simultaneously apply a force of 400 N (90 lbf.) to each arm initially at a 10 degrees ± 1		
degree angle. The arm loading device must follow the arm as it deflects or pivots. The		
force shall be applied and removed for 60,000 cycles at a rate between 10 and 30	PASS	
cycles per minute. The arm loading device should distribute the load over a length of	FA35	
100 mm (4 in.) on the arm pad. Center of load shall not be applied more than 25 mm		
(1.0 in.) in from the inside edge of the arm pad.		
There shall be no loss of serviceability to the chair.		
21 Out Stop Tests for Chairs with Manually Adjustable Seat Depth		
A stranded metallic cable or equivalent shall be attached to the most rigid point of the		
vertical centerline of the seat. The opposite end of the cable shall extend in line forward		
from the seat and in line with the plane of the seat movement to a pulley and then		
downward to an attached weight of 25 kg (55 lb.). Place the seat in its most rearward	PASS	
position and restrain. Place a 74 kg (163 lb.) rigid mass in the center of the seat. The		
seat with the hanging weight shall be held at its most rearward position, then released,		
permitting it to move forward rapidly and impact the out stops. Repeat this procedure		
for a total of 25 cycles. There shall be no loss of serviceability to the unit.		
22 Tablet Arm Chair Static Load Test		
Apply the load through a 203 mm \pm 13 mm (8.0 in. \pm 0.51 in.) diameter area 25 mm (1		
in.) from the edge of the surface at its apparent weakest point. Apply a load of 68 kg.		
(150 lb.) at the location described in 23.2 b) for one (1) minute and remove the load.	N/A	
The load applied once shall cause no sudden and major change in the structural		
integrity of the chair. After performing the test, the tablet arm must allow egress from		
the unit; other losses of serviceability are acceptable.		
23 Tablet Arm Chair Load Ease Test – Cyclic		
Apply a load of 25kg (55 lb.) through a 203 mm \pm 13 mm (8.0 in. \pm 0.51 in.) diameter		
area 25 mm (1 in.) from the edge of the surface at its apparent weakest point, for a	N/A	
total of 100,000 cycles. The cycling device shall be set to operate at a rate of 14 ± 6		



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Test and Requirements			Test Results
weight of 109 kg (240 lb.) in t to the unit frame midway betw midpoint of the seat frame stu "push-pull" action, or alternat application on alternating side application and removal and	ned from horizontal movement on a t he center of the seat. A cycling devic ween front and rear of the seat at the ructure. The cycling device shall be a ely may be applied by alternating pull es of the unit. One cycle shall consist one inward force application and rem ate rate between 10 and 30 cycles pe	e shall be attached height of the djusted to apply a (or push) force of one outward force oval. Apply a force of	N/A
Appendix C Base Test – St There shall be no sudden an	atic d major change in the structural integ	rity of the base. The	

There shall be no sudden and major change in the structural integrity of the base. The center column may not touch the test platform during the load applications when a force of 11,120 N (2500 lbf.) is applied to the vertical support column, or test fixture that simulates the taper/base interface for one (1) minute. Remove the force, and then apply a second force of 11,120 N (2500 lbf.) for one (1) minute.

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: 19.60 kg

Overall Dimensions: 695~935 mm D x 685 mm W x 1065~1345 mm H

Other Dimensions: Base radius 335 mm

Sample as Received





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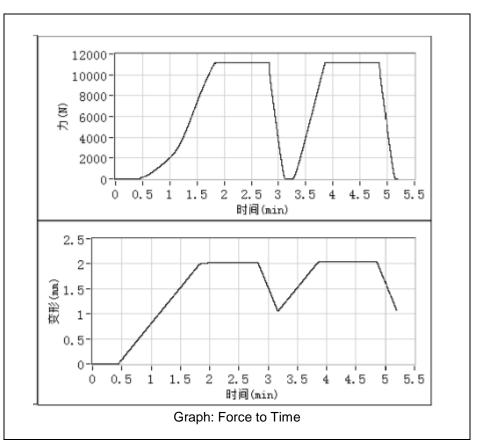
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Test Pictures with Details

End of Report



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