

Test Report

No.: SDHL1906010037FT

Date: Sep.12, 2019

Page 1 of 5

MULTI GROUP (HK) LTD
ROOM 1011, 10/F, 655 NATHAN ROAD, KOWLOON, HONG KONG

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

Sample Description : TIMBER CHAIR
 Style / Item No. : PITA BARSTOOL
 Country of Origin : ASIA
 Sample Receiving Date : Jun.12, 2019
 Sample 1st Resubmission Date : Aug.05, 2019
 Sample 2nd Resubmission Date : Sep.06, 2019
 Test Performing Date : Jun.12, 2019 to Sep.12, 2019

Test Result Summary

Test(s) Requested	Result(s)
AS/NZS 4688.2:2000 R2016 (Level 5)	PASS

Summary:

- 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:

AS/NZS 4688.2:2000 R2016 Furniture — Fixed height chairs – Determination of strength and durability.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 23±2°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Test Level: Level 5.

Test	Test Description and Requirements	Test Results
<p>Strength and Durability The strength and durability requirements are fulfilled when during and after testing as below.</p> <p>a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) seating fulfils its functions after removal of the test loads; d) seating fulfils the stability requirements.</p>		
7.1	<p>Seat static load test Position the chair on the test platform. Apply a vertical force of 2000 N first at the seat loading position and subsequently at 100 mm back from the front edge of the seat, 10 times and maintain the load for at least 10 sec. during each application.</p>	PASS
7.2	<p>Back static load test Position the chair on the test platform. Place stops behind the rear feet or castor to prevent the chair from moving rearward. Apply a vertical balancing force of 2000 N at the seat loading position. Apply a force of 760 N at the back loading position 10 times and maintain for at least 10 sec. during each application.</p>	PASS
7.3	<p>Arm and wing sideways static load test Restrain the chair on a test platform Apply a pair of outward forces of 900 N at the position along the arms most likely to cause failure 10 times and maintain the load for at least 10 sec. During each application. For wing, sideways static load is 500 N.</p>	N/A
7.4	<p>Arm downwards static load test Restrain the chair on the test platform. Apply a vertical force of 1000 N at the position along the arms most likely to cause failure 10 times and maintain the load for at least 10 sec. during each application.</p>	N/A
7.5	<p>Seat fatigue test Position the chair on a test platform. Apply a vertical force of 950 N at the seat loading position. Repeat the operation for a total of 200000 times at the rate not exceeding 40 cycles per minute.</p>	PASS



Test	Test Description and Requirements	Test Results
7.6	Back fatigue test Position the chair on a test platform. Place stops behind the rear feet or castor to prevent the chair from moving rearward. Apply a vertical balancing force of 950 N at the seat loading position. Apply a force of 330 N at the back loading position. Repeat the above operation for a total of 200000 times at the rate not exceeding 40 cycles per minute.	PASS
7.7	Leg forward static load test Position the sample on the platform. Apply and maintain balancing seat load of 1800 N on the seat. Apply a horizontal force of 760 N centrally to the rear of the article at seat level in a forward direction for at least 10 seconds. Total 10 test cycles.	PASS
7.8	Leg sideways static load test Position the sample on the platform. Apply and maintain balancing seat load of 1800 N on the seat. Apply a horizontal force of 760 N centrally to the side of the article at seat level for at least 10 sec. Total 10 test cycles.	PASS
7.9	Diagonal base load test Position the sample on the platform. Apply simultaneously two opposing forces of 620 N to one pair of diagonally opposite corners of the article. Apply these forces as near as possible to the lowest point in an inward direction 10 times and during each application maintain the load for at least 10 sec.	N/A
7.10	Seat impact test Position the sample on the platform. Allow the impactor (25 kg) to fall freely from the height of 300 mm on the seat loading point for 10 times.	PASS
7.11	Back impact test Position the sample on the platform. Place stops before the front feet or castor to prevent the chair from moving forward. Allow the impact hammer to fall freely from the height of 620 mm on the center of the outside of seatback top for 10 times.	PASS
7.12	Arm impact test Position the sample on the platform. Place stops before the front feet or castor to prevent the chair from moving forward. Allow the impact hammer to fall freely from the height of 620 mm on the arm at the positions that most likely to cause a failure for 10 times.	N/A
7.13	Drop test Place the sample on the platform. Choose the foot to be dropped. The line joining that foot to the foot diagonally opposite is inclined at 10 degree to the horizontal, whilst the line join the remaining feet is horizontal. Lift the sample to the height and drop. Drop the sample 10 times onto a front leg and 10 times to a rear leg. The drop height are decided by following rules: 1. Stackable or special design of chairs and stools with legs or pedestals longer than 200 mm: 900 mm; 2. Non-stacking chairs with castors or swiveling glides with legs or pedestals longer than 200 m: 450mm; 3. Chairs and stools with legs or pedestals shorter than 200 mm: 250mm.	PASS



Test	Test Description and Requirements	Test Results
7.14	<p>AN/NZS 4438:1997 Chair Swiveling Test Using the small loading pad, apply the vertical downward force of 950 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 200000 cycles.</p>	N/A

Remark:

1. AS/NZS 4688.2:2000 R2016 only is test methods for determining strength and durability for fixed height chairs. Therefore, pass and fail criteria is depended on other specification requirements or buyer's requirements;
2. Since Pass and Fail criteria is not specified in this standard, unless specifically required by the client, reference is made to EN12520:2015 for result rating in this report.
3. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
4. For the sample information and pictures, please refer to the following page.



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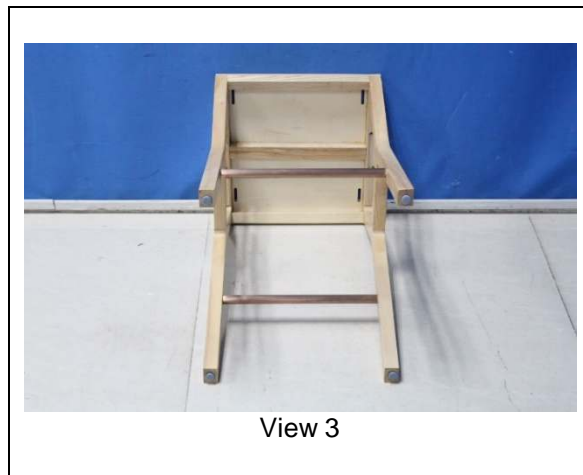
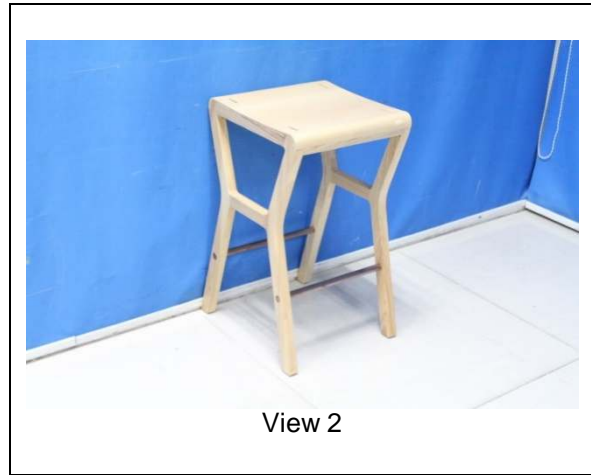
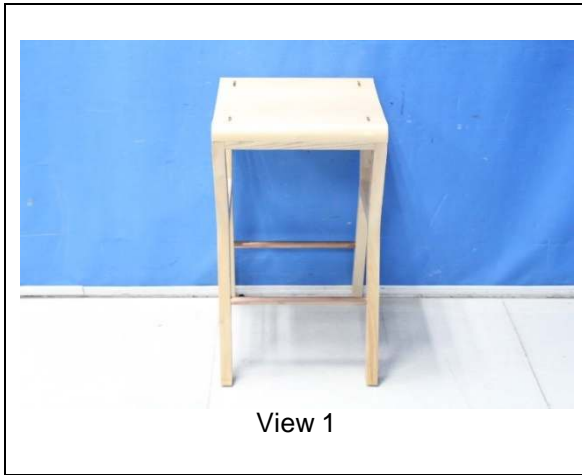
SAMPLE INFORMATION AND PICTURES

Weight: 4.00 kg

Overall Dimensions: 425 mm D x 381 mm W x 660 mm H

Other Dimensions: /

Sample as Received



End of Report

