



Test Report

No.: SHHG1404013077FT

Date: APR.30,2014

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HAWORTH FURNITURE (SHANGHAI) CO., LTD.

360 XI YA ROAD,WAI GAO QIAO FREE TRADE ZONE,SHANGHAI 200131 CHINA

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

Sample Description : DUNE 1PC
Sample Receiving Date : APR.24,2014
Testing Period : APR.24,2014 TO APR.30,2014
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : ANSI/BIFMA X5.5-2008: DESK/TABLE PRODUCTS-
TESTS- AMERICAN NATIONAL STANDARD FOR
OFFICE FURNITURE (CLAUSE 4.3, 5, 6, 7&8)
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Conclusion : THE SUBMITTED SAMPLE MET THE TEST
REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Ltd.

Vincent Feng
Technical Manager

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Test Conducted:

ANSI/BIFMA X5.5-2008: Desk/Table Products-Tests– American National Standard For Office Furniture

Testing Condition : All the physical test is carry out in indoor ambient.

Nos. of Specimen : 1 pc.

Categories of the Specimen : Categories I

Test Result : Pass.

Tests Item	Test method and Requirements	Results-Remark	Rating
4 Stability Test			
4.3 Stability Under Vertical Load Test	Place a 305mm (12in.) diameter disk so that its center is 178mm (7in.) from the edge of the top at the least stable location. If the center of the disk is greater than 305mm (12in.) from a corner of the top, move the disk such that its center is 305mm (12in.) from the corner keeping the edges of the disk equidistant from both sides of the top. If, at the least stable position, the top has a depth less than 356mm (14in.), center the loading disk across the depth at that position Then place a 57kg (125lb.) static load on the disk, the unit shall not tip over.	Keep stable	Pass
5 Unit Strength Test			
5.2 Concentrated Functional Load Test	Apply the specified concentrated load to the primary surface per Table 1 through a 305mm (12in.) diameter disk so that its center is 178mm (7in.) from the unit's edge at its apparent weakest point. For units with lengths greater than 1829 mm (72 in.), two concentrated loads are required Loads shall be allowed to remain for 60 minutes and then remove the concentrated loads. There shall be no loss of serviceability. Upon completion of the test, the force to pull the extendible member shall not exceed 50 N (11.2 lbf.).	Top: 91kg	Pass
5.3 Distributed Functional Load Test	Apply the specified distributed loads per Table 1. All extendible elements shall be loaded per Table 1 and fully opened for the duration of the test. Loads shall be allowed to remain for 60minutes and then remove. There shall be no loss of serviceability. Upon completion of the test, the force to pull the extendible member shall not exceed 50 N (11.2 lbf.).	Perimeter: 2750mm Test load: 74.5kg	Pass

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<p>5.4 Concentrated Proof Load Test</p>	<p>The setup shall be performed per Section 5.2.1 with the appropriate concentrated proof load per Table 1, except for the extendible elements, which shall remain loaded and fully extended with the functional loads. Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>Top: 136kg</p>	<p>Pass</p>
<p>5.5 Distributed Proof Load Test</p>	<p>Using the appropriate distributed proof loads per Table 1, except for the extendible elements, which shall remain loaded and fully extended with the functional loads. Loads shall be allowed to remain for 15 minutes and then removed. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>Perimeter: 2750mm Test load: 113kg</p>	<p>Pass</p>
<p>5.6 Transaction Surface Torsion Load Test</p>	<p>Secured the unit to the test platform to prevent tipping, but shall not affect the load application. Attach a strap or stranded metallic cable to one edge of the transaction surface at its apparent weakest point. Pass the strap or stranded metallic cable over the top of the transaction surface and allow it to hang vertically below the opposite edge. Attach a 34 kg (75 lb.) weight to the free end of the strap or cable for 15 minutes. There shall be no loss of serviceability</p>	<p>Without transaction surface</p>	<p>Not applicable</p>
<p>5.7 Extendible Element Static Load Tests</p>	<p>Secured the unit to the test platform to prevent tipping, but shall not affect the load application. Determine the extendible element of each type with the largest available clear space. Uniformly distribute a proof load per Table 1 in the selected extendible element. Close the extendible element and allow the load to remain for 15 minutes. And open the extendible element for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>Without extendible element</p>	<p>Not applicable</p>

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<p>6 Top Load Ease Cycle Test</p>	<p>This test applies to units with tops less than or equal to 965 mm (38 in.) in height or height adjustable units that cannot be adjusted to 965mm (38in.) All elements shall remain loaded with the functional load per Table 1 and then closed for the duration of the test. A 91 kg weight applied by means of a 406 mm diameter bag shall be positioned on the unit top with the edge of the bag within 25 mm (1 in.) from the edge of the surface at the apparent weakest point. The bag shall be raised until the entire weight is off the unit top and then eased (without impact) onto the surface so that it takes the entire weight without any support from the cycling device, for 10000 cycles, at rate of 14 ± 6 cycles per minute. There shall be no loss of serviceability. Upon completion of the test, the force to pull the extendible member shall not exceed 50 N (11.2 lbf.).</p>	<p>Height: 715mm Test frequency: 14cycles per minutes</p>	<p>Pass</p>
<p>7 Desk/ Table Unit Drop Test</p>	<p>This test does not apply to desk/table units with casters. Determined the weight of the unloaded desk/table units to be test. Raise one end of the long axis of the unloaded units so that the bottom of the base is above the test platform at the height given in Table 3 or at the balance point, whichever is lower. The end of the unit being tested shall be released and allowed a free fall to the test platform. Repeat for the other end of the desk/table unit. There shall be no loss of serviceability. Upon completion of the test, the force to pull the extendible member shall not exceed 50 N (11.2 lbf.).</p>	<p>Unit weight: 19.93kg Drop height: 180mm</p>	<p>Pass</p>

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<p>8 Leg Strength Test</p>	<p>Function Test Attach a loading device to the support member to be loaded. Individually and separately apply the functional horizontal forces ("A" and "B") on 25mm (1in.) of the end of the support member/ glide assembly that makes contact with the floor. Repeat above step for each unique type supporting member on the desk/table product. There shall be no loss of serviceability. Upon completion of the test, the force to pull the extendible member shall not exceed 50 N (11.2 lbf.).</p> <p>Proof Test Attach a loading device to the support member to be loaded. Individually and separately apply the functional horizontal forces ("A" and "B") on 25mm (1in.) of the end of the support member/ glide assembly that makes contact with the floor. Repeat above step for each unique type supporting member on the desk/table product. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.</p>	<p>Function Load: A: 320N</p> <p>Proof Load: A: 480N</p>	<p>Pass</p>
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Sample Photo:

Received sample



End of Report

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