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 CNAS L0599

**Test Report**

No.: SHHL2309050435FT

Date: OCT. 16, 2023

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YU DOU (SH) INTELLIGENCE TECHNOLOGY CO.,LTD  
 1F, NO.5 BUILDING, LANE 4999 SOUTH HONGMEI RD, MINHANG DISTRICT, SHANGHAI,  
 CHINA 200241

Sample Description : TORII E DESKTOP GROUP SYSTEM  
 Style No. : 1400\*700\*750  
 \*\*\*\*\*  
 Source of Sample : SENT BY CLIENT.  
 Sample Receiving Date : OCT. 08, 2023  
 Testing Period : OCT. 08, 2023 TO OCT. 16, 2023

Test Requested	Result
ANSI/BIFMA X5.5-2021: DESK AND TABLE PRODUCTS – AMERICAN NATIONAL STANDARD FOR OFFICE AND INSTITUTIONAL FURNISHINGS	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Echo Wang*



Echo Wang  
 Authorized Signatory



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**Test Conducted:**

ANSI/BIFMA X5.5-2021: Desk and Table Products – American National Standard for Office and Institutional Furnishings	
Testing Condition	: All the physical tests are carried 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
3.3.1 Clearance Between Adjusting Primary and Secondary Surfaces	The clearance between a vertically user-adjustable primary or secondary surface and any adjacent surface shall not be less than 25 mm (1 in.). A clearance less than 8 mm (0.3 in.) is acceptable where the clearance is maintained throughout the travel of the adjusting surface. Articulating keyboard support surfaces and monitor arms are exempt from this requirement.	No secondary surfaces	Not Applicable
3.3.2 Foot Clearance for Height Adjustable Tables	There shall be no less than 114 mm (4.5 in.) of clearance between a product suspended from a vertically user-adjustable surface and the floor.	Not height adjustable tables	Not Applicable
3.12 Glass Surfaces	For horizontal surfaces, glass shall meet the requirements of ASTM F2813 Standard Specification for Glass Used as a Horizontal Surface in Desks and Tables. This specification covers performance requirements to ensure the use of safety glass when used as an unenclosed horizontal surface under 1118 mm (44 in.) in height used in desks and tables.	Without glass surfaces	Not Applicable
4.2 Stability with extendible elements open test	Set up as Section 4.2.1. Gradually open the loaded extendible element(s) to the fullest extension the unit will allow. (Open simultaneously if there are two extendible elements). The unit shall not tip over. If open extendible elements prevent the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.	Without extendible elements	Not Applicable
4.3 Stability Under Vertical Load Test	This test applies to desks and tables with or without extendible elements. This test does not apply to Keyboard/Laptop Tables (see Section 4.5) or Benching Systems (see Section 5.8). This test does not apply to tables less than 6.8 kg (15 lbs.).	Not tipped over	Pass



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Tests Item	Test method and Requirements	Results-Remark	Rating
	Set up as Section 4.3.1. Perform the Test as Section 4.3.2. The unit shall not tip over from either the 57 kg (125 lb.) load(s) or from the 34 kg (75 lb.) load.		
4.4 Horizontal stability test for desk/ table with castors	This test applies to desks and tables with or without extendible elements. If screens or modesty panels are available with the desk/table, the unit shall include them if they contribute to the worst case condition. This test does not apply to keyboard/laptop tables. Set up as Section 4.4.1. Perform the Test as Section 4.4.2 until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The unit shall not tip over. If an extendible element(s) opens during the test and prevents the unit from tipping over due to contact with the test platform, the unit does not meet the acceptance criteria.	Without castors	Not applicable
4.5 Stability Test for Keyboard/Laptop Tables (with and without casters)	This test does not apply to keyboard/laptop tables weighing less than or equal to 6.8 kg (15 lbs.). Set up as Section 4.5.1. Perform the Test as Section 4.5.2 until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The unit shall not tip over.	Not keyboard/laptop tables	Not Applicable
4.6 Force stability test for tall desk/ table products	This test applies to any unit that is higher than or can be adjusted to heights greater than 1067 mm (42 in.) including the height of mechanically attached screen or storage segments. This includes tables that can be tilted up in a stowed position (flip top tables) that are taller than 1067 mm (42 in.) when in the stowed (for storage) position. This test does not apply to screen or storage segments installed exclusively in between double-sided benching systems and desk/table products. Set up as Section 4.6.2. Perform the Test as Section 4.6.3 until one of the following occurs: <input type="checkbox"/> 177 N (40 lbf.) is reached, <input type="checkbox"/> The product tilts to 10 degrees (as measured on the lower part of the unit), <input type="checkbox"/> The vertical angle on the screen or storage element tilts to 10 degrees <input type="checkbox"/> The horizontal movement at the point of application on the screen is 165 mm (6.5 in.)	Not adjustable tables and height less than 1067 mm	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating
	The unit shall not tip over. Loss of serviceability is acceptable.		
<b>5 Unit Strength Test</b>			
5.2 Concentrated Functional Load Test	This test also applies to Benching Systems. Set up as Section 5.2.1. Perform the Test as Section 5.2.2 for 60 minutes. There shall be no loss of serviceability. Upon completion of the test, the extendible element(s) shall meet the pull force requirements of Section 19 as tested in 5.2.2.	No damage Load: 91 kg	Pass
5.3 Distributed Functional Load Test	Except for Keyboard/Laptop tables, this test does not apply for units with a top perimeter less than 3378 mm (133 in.) of perimeter. Set up as Section 5.3.1. Perform the Test as Section 5.3.2 for 60 minutes. There shall be no loss of serviceability. Upon the completion of the test, the extendible element(s) shall meet the pull force requirements of Section 19 as tested in 5.3.2.	No damage Load: 113.4 kg	Pass
5.4 Concentrated Proof Load Test	Set up as Section 5.4.1. Perform the Test as Section 5.4.2 for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable. Height adjustable tables do not need to maintain their setup position during the proof load test, but the unit must hold the load at some position for the 15 minutes. A slow back-driving (lowering) of the height adjustable surface is acceptable.	No damage Load: 136 kg	Pass
5.5 Distributed Proof Load Test	Except for Keyboard/Laptop tables, this test does not apply for units with a top perimeter less than 3378 mm (133 in.) of perimeter. Set up as Section 5.5.1. Perform the Test as Section 5.5.2 for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable. Height adjustable tables do not need maintain their setup position during the proof load test, but the unit must hold the load at some position. A slow back-driving (lowering) of the height adjustable surface is acceptable.	No damage Load: 172.2 kg	Pass
5.6 Transaction Surface Torsion Load Test	Set up as Section 5.6.2. Perform the Test as Section 5.6.3 with a 34 kg (75 lb.) for 15 minutes. There shall be no loss of serviceability.	Without transaction surface	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating
5.7.2 Extendible Element Functional Load Test	The functional loading tests for extendible elements are performed as described in Sections 5.2 and 5.3 and need not be repeated if they have already been performed.	Without extendible element	Not Applicable
5.7.3 Extendible Element Proof Load Test	This test does not apply to low height drawers. Set up as Section 5.7.3.1. Perform the Test as Section 5.7.3.2 for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.	Without extendible element	Not Applicable
5.8 Benching Systems - Distributed Functional Load and Stability Test	Benching System product stability tests shall be tested in worst-case conditions which will typically be without extensions (if the design allows for such configuration). Benching Systems shall also be tested to the Concentrated Load Test per Section 5.2. If the unit requires support from adjacent units (as specified per the manufacturer's instructions), all units shall be tested together as a system. Set up as Section 5.8.1. Loads shall be applied for 60 minutes except for stability loads. There shall be no loss of serviceability. The system shall not tip over. For two-sided units, the functional load applied to one side of the unit shall not cause tip over; the loads on the entire unit shall cause no loss of serviceability.	Without benching systems	Not Applicable
5.9 Benching Systems - Distributed Proof Load Test	Set up as Section 5.9.1. Apply the appropriate distributed proof loads per Table 1 to all primary surfaces and functional loads (distributed for surface loadings) to all secondary surfaces and extendible elements. The largest two extendible elements shall be fully opened for the duration of the test. Loads shall be applied for 15 minutes. There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable. Height adjustable surfaces do not need to maintain their setup position during the proof load test, but the unit must hold the load at some position. A slow back-driving (lowering) of the height adjustable surface is acceptable.	Without benching systems	Not Applicable
6 Top Load Ease Cycle Test	This test does not apply to: <input type="checkbox"/> surfaces greater than 965 mm (38 in.) in height, or height adjustable units that cannot be adjusted to 965 mm (38 in.) or below. <input type="checkbox"/> shelves or adjustable keyboard surfaces or	No damage	Pass



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Tests Item	Test method and Requirements	Results-Remark	Rating												
	<p>keyboard/laptop tables. (If it is unclear whether the surface is a primary surface or a shelf, this test applies).</p> <p><input type="checkbox"/> units with integral (non-detachable) overhead storage units, hutches, etc. that limit the useable depth of the primary surface to less than 406 mm (16 in.) or with designs that interfere with a person's ability to sit on the surface.</p> <p>Set up as Section 6.2. Perform the Test as Section 6.3 for a total of 10,000 cycles. There shall be no loss of serviceability to the unit. Before and after the cycling test, the extendible elements shall meet the pull force test requirements in Section 19. A gradual loss of height for height adjustable products during cycling is not considered a loss of serviceability.</p>														
7 Desk/ Table Unit Drop Test	<p>This test applies to ungangled freestanding category I desk or table products which are less than or equal to 1829 mm (72 in.) in length. This test does not apply to desk/table units with casters or to keyboard/laptop tables.</p> <p>On desk/table units with adjustable features, set the adjustable features at the midpoint of adjustment.</p> <p>Perform the Test as Section 7.3 at the height given below or at the balance point, whichever is lower.</p> <p>There shall be no loss of serviceability. The extendible elements shall meet the pull force test requirements in Section 19.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Drop Height for Desk/Table Units</th> </tr> <tr> <th>Unit Weight</th> <th>Drop Height</th> </tr> </thead> <tbody> <tr> <td>&lt;45 kg (100 lb.)</td> <td>180 mm (7.1 in.)</td> </tr> <tr> <td>45- 90 kg (100-200 lb.)</td> <td>120 mm (4.7 in.)</td> </tr> <tr> <td>&gt;90 – 136 kg (200 - 300 lb.)</td> <td>60 mm (2.4 in.)</td> </tr> <tr> <td>&gt; 136 kg (300 lb.)</td> <td>n/a</td> </tr> </tbody> </table>	Drop Height for Desk/Table Units		Unit Weight	Drop Height	<45 kg (100 lb.)	180 mm (7.1 in.)	45- 90 kg (100-200 lb.)	120 mm (4.7 in.)	>90 – 136 kg (200 - 300 lb.)	60 mm (2.4 in.)	> 136 kg (300 lb.)	n/a	No damage Drop height:180mm	Pass
Drop Height for Desk/Table Units															
Unit Weight	Drop Height														
<45 kg (100 lb.)	180 mm (7.1 in.)														
45- 90 kg (100-200 lb.)	120 mm (4.7 in.)														
>90 – 136 kg (200 - 300 lb.)	60 mm (2.4 in.)														
> 136 kg (300 lb.)	n/a														
8.2 Leg Strength Test – Standard	<p>This test does not apply to units weighing more than 135.1 kg (300 lbs.) or to units with top design features (shelves, screens, etc.) that do not allow the product to be placed on it its top. These units are to be tested to the Leg Strength Test – Alternate in Section 8.3.</p> <p>Set up as Section 8.2.1. Perform the Functional Test as Section 8.2.2. No loss of serviceability shall occur as a result of the application of the functional loads. After application of the functional loads, extendible element(s) shall meet the pull force requirements of Section 19. For tilt-top tables,</p>	No damage Functional force: A: 401N B: 200.5N Proof force: A: 601.5N B: 300.7N	Pass												



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Tests Item	Test method and Requirements	Results-Remark	Rating
	release of the top latching mechanism during the test is considered a loss of serviceability. Perform the Proof Test as Section 8.2.4. Application of the proof loads shall cause no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.		
8.3 Leg Strength Test – Alternate	Applies to units weighing more than 135.1 kg (300 lbs.), or units that cannot be tested per section 8.2 (such as those with scissor-type legs that fold when loading the leg or with features that prevent the unit from being tested on its top). For product families that span under and over 135.1 kg (300 lbs.), if units under 135.1 kg (300 lbs.) are of the same leg construction and are tested per 8.2 at the maximum loading, it is not necessary to test units weighing more than 135.1 kg (300 lb.) in that product family. This test does not apply to units with casters. Set up as Section 8.3.1. Perform the Functional Test as Section 8.3.2 with Force A of 445 N and Force B of 222 N. No loss of serviceability shall occur as a result of the application of the functional loads. Perform the Proof Test as Section 8.3.4 with Force A of 668 N and Force B of 334 N. Application of the proof loads shall cause no sudden and major change in the structural integrity of the unit or its components. Loss of serviceability is acceptable.	Units weighing less than 135.1 kg	Not Applicable
9 Separation Tests for Tall Desk/Table Products with Vertically Attached or Stacked Components	This test applies to units with attached or unattached screen or storage segments that meet the following criteria: the top segment causes the unit to be greater than 1067 mm (42 in.) in height. This test does not apply to: <input type="checkbox"/> storage segments or screens weighing less than 9 kg (20 lbs.), or to <input type="checkbox"/> screens that weigh less than 4.9 kg/m <sup>2</sup> (1 lb./ft <sup>2</sup> .) of surface area (area calculated based on one side only) For height adjustable tables, the applicability determination shall be made with the table in its highest position. Front, side or back impacts are not required for component surfaces inset more than 305 mm (12 in.) from the support surface/base-unit edge (i.e. component is set back from the edge) If storage segments or screens are stacked together and their combined weight is more than 9 kg (20 lbs.), the combination shall be tested. If the manufacturer's instructions indicate that the unit must	No screen	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating										
	<p>be placed against the wall, then no back or front horizontal separation tests are required.                      Set up as Section 9.2.                      Perform the Test as Section 9.3.                      The components shall not become separated (fall off) from the base unit as the result of the impact sequence given.                      Loss of serviceability is acceptable. Cracked or broken glass is not acceptable. Broken non-glass components are acceptable. If the total weight of a separated component or piece is less than 4.5 kg (10 lbs.) the unit meets the acceptance criteria.</p>												
10.2 Cycle Test for Extendible Elements as Deep as or Deeper Than Wide	<p>Set up as Section 10.2.1.                      Perform the Test as Section 10.2.2 for 50,000 cycles.                      There shall be no loss of serviceability. Before and after the cycle test, the extendible element(s) shall meet the pull force requirements of Section 19. If applicable, after the cycle test the extendible elements shall meet the interlock test requirements of Section 13.</p>	Without extendible element	Not Applicable										
10.3 Cycle Test for Extendible Elements Wider Than Deep	<p>Set up as Section 10.3.1.                      Perform the Test as Section 10.3.2 for 50,000 cycles.                      There shall be no loss of serviceability. Before and after the cycle test, the extendible element(s) shall meet the pull force requirements of Section 19. If applicable, after the cycle test the extendible elements shall meet the interlock test requirements of Section 13.</p> <table border="1"> <thead> <tr> <th>Pull Type</th> <th>Cycles per Location</th> </tr> </thead> <tbody> <tr> <td>single pull ≤ 33% extendible element width or ≤ 457 mm [18 in.] in width (center pulls and single side pulls)</td> <td>50,000 cycles at center of pull</td> </tr> <tr> <td>single pull &gt; 33% extendible element width and greater than 457 mm [18 in.] in width (wide width pulls)</td> <td>30,000 cycles at center of pull 10,000 cycles at Right Hand position (see test setup) 10,000 cycles at Left Hand position (see test setup)</td> </tr> <tr> <td>Wide pulls are &gt; 33% of extendible element front and greater than 457 mm [18 in.] in width</td> <td></td> </tr> <tr> <td>dual pulls</td> <td>25,000 cycles at center of Right Hand pull 25,000 cycles at center of Left Hand pull</td> </tr> </tbody> </table>	Pull Type	Cycles per Location	single pull ≤ 33% extendible element width or ≤ 457 mm [18 in.] in width (center pulls and single side pulls)	50,000 cycles at center of pull	single pull > 33% extendible element width and greater than 457 mm [18 in.] in width (wide width pulls)	30,000 cycles at center of pull 10,000 cycles at Right Hand position (see test setup) 10,000 cycles at Left Hand position (see test setup)	Wide pulls are > 33% of extendible element front and greater than 457 mm [18 in.] in width		dual pulls	25,000 cycles at center of Right Hand pull 25,000 cycles at center of Left Hand pull	Without extendible element	Not Applicable
Pull Type	Cycles per Location												
single pull ≤ 33% extendible element width or ≤ 457 mm [18 in.] in width (center pulls and single side pulls)	50,000 cycles at center of pull												
single pull > 33% extendible element width and greater than 457 mm [18 in.] in width (wide width pulls)	30,000 cycles at center of pull 10,000 cycles at Right Hand position (see test setup) 10,000 cycles at Left Hand position (see test setup)												
Wide pulls are > 33% of extendible element front and greater than 457 mm [18 in.] in width													
dual pulls	25,000 cycles at center of Right Hand pull 25,000 cycles at center of Left Hand pull												
10.4 Cycle Test for Low Height Drawers	<p>This test is not applicable to drawers without mechanical suspensions.                      Set up as Section 10.4.1.                      Perform the Test as Section 10.4.2 for 10,000 cycles.                      There shall be no loss of serviceability. Before and after the cycle test, the low height drawer shall meet the pull force requirements of Section 19.</p>	Without extendible element	Not Applicable										





Tests Item	Test method and Requirements	Results-Remark	Rating
11 Extendible Element Retention Impact and Durability (Out Stop) Tests	This test applies to elements with load capacity per Table 1 of greater than 7 kg (15.4 lb.). Set up as Section 11.2. Perform the Test as Section 11.3 for 5 cycles at Retention Impact Test and 15,000 cycles at Retention Durability Test. There shall be no loss of serviceability. Before and after performing the Retention Tests, the extendible element shall meet the pull force requirements of Section 19.	Without extendible element	Not Applicable
12 Extendible Element Rebound Test	This test does not apply to low height drawers. Set up as Section 12.2. Perform the Test as Section 12.3 against the force gauge to a force of 9.8 N per kg (1 lbf. / pound) of extendible element load or 178 N (40 lbf.), whichever force is less, for a total of 5 times. There shall be no loss of serviceability. The rebound position of the extendible element shall not exceed 38 mm (1.5 in.) from its closed position after each of the five closings. The extendible element shall meet the pull force requirements of Section 19.	Without extendible element	Not Applicable
13 Interlock Strength Test	Set up as Section 13.2. Perform the Test as Section 13.3. with a horizontal force of 133 N (30 lbf.). There shall be no loss of serviceability to the interlock system. The unopened extendible elements shall not bypass the interlock system.	Without Interlock	Not Applicable
<b>14 Lock Tests</b>			
14.2 Force Test for Extendible Element Locks	Set up as Section 14.2.2. Perform the Test as Section 14.2.3 with a force of 222 N (Horizontal and 30 degrees from horizontal). The extendible elements shall remain in the locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.	Without lock	Not Applicable
14.3 Force Test for Door Locks	Set up as Section 14.3.2. Perform the Test as Section 14.3.3 with a force of 222 N in the direction of initial door travel. The doors shall remain in the locked position during application of the forces. There shall be no loss of serviceability of the locking mechanism.	Without lock	Not Applicable
14.4 Locking Mechanism Cycle Test	Set up as Section 14.4.2. Perform the Test as Section 14.4.3 for 5000 cycles. There shall be no loss of serviceability of the locking mechanism.	Without locking mechanism	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating
15 Work surface Vertical Adjustment Test	<p>This test does not apply to pin adjustable (incremental adjustment) tables or to Category III tables. This test does not apply keyboard/laptop tables, keyboard support surfaces, or input device supports, which are tested per Section 16 if adjustable.</p> <p>Set up as Section 15.2.</p> <p>Perform the Test as Section 15.3 for 5010 cycles.</p> <p>There shall be no loss of serviceability to the unit. For surfaces with crank-driven height adjustment mechanisms, the operating force on the handle to adjust the table shall not exceed 50 N (11.2 lbf.) before or after the test. For motor driven units, if shutdowns (requiring a recalibration) occur more than 3 times per any given 500 cycle interval (not including up to three recalibrations at a set interval throughout the test if recommended by manufacturer's instructions as per Note in 15.3.1), the unit shall be considered as having a loss of serviceability.</p> <p>A "double button-push" describes having to repeat engagement / activation of the height controller within the time for one cycle and is not considered a shutdown, however no more than 25 "double button-pushes" shall be allowed in any given 500 cycle interval.</p>	Non-adjustment	Not Applicable
16 Keyboard Support and Input Device Support Adjustment Tests	<p>Set up as Section 16.2 with an evenly distributed 4.5 kg (10 lb.) load across the keyboard support surface or an evenly distributed 2.3 kg (5 lb.) load across the input device support surface (if it is a separate surface from the keyboard support surface).</p> <p>Perform the Test as Section 16.3 for 2500 cycles.</p> <p>There shall be no loss of serviceability.</p>	Without keyboard support and input device	Not Applicable
<b>17 Door Tests</b>			
17.2 Strength Test for Vertically Hinged, Bi-Fold Doors and Vertically Receding Doors	<p>This test does not apply to multi-fold (accordion / more than two folds) doors.</p> <p>Set up as Section 17.2.2 with the specified load so that its weight is equally distributed on both sides of the door and its center of gravity acts 100 mm (4 in.) from the edge of the door opposite the hinge.</p> <p>Cycle the door 10 times from a position 45 degrees from fully closed to a position 10 degrees from fully open (but not more than 135 degrees) and return. For bi-fold doors, cycle the door from a position 50 mm (2 in.) from fully closed to a position 50 mm (2 in.) from fully open and return.</p> <p>There shall be no loss of serviceability to the unit.</p>	Without door	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating
17.3 Hinge Override Test for Vertically Hinged Doors	Apply a 60 N (13.5 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline (halfway down the height of the door) 100 mm (4 in.) from the edge farthest from the hinge.	Without door	Not Applicable
17.4 Vertical Receding Doors Strength Test	Set up as Section 17.4.2. Apply the 80 N (18 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline (halfway down the height of the door) 100 mm (4 in.) from the edge farthest from the hinge for 10 times. Repeat the test with the force application to the opposite side of the door. There shall be no loss of serviceability to the desk/table unit or its components.	Without door	Not Applicable
17.5 Horizontal Receding Door Strength Test	Set up as Section 17.5.2. Apply the 80 N (18 lbf.) downward force perpendicular to the plane of the door at the midpoint of a line parallel to and 25 mm (1 in.) from the front/bottom edge of the door for 10 times.	Without door	Not Applicable
17.6 Wear and Fatigue Test for Hinged, Horizontally Sliding, and Tambour Doors	Cycle the door for a total of 20,000 cycles. The cyclic rate shall be 12 ± 4 cycles per minute unless the rate is controlled by the door operating mechanisms (pneumatic dampers, etc.). If that is the case, the rate shall not exceed the natural rate established by the movement of the mechanism. There shall be no loss of serviceability to the desk/table unit or its components.	Without door	Not Applicable
17.7 Wear and Fatigue Test for Vertical Receding Door	Set up as Section 17.7.2. Perform the test as Section 17.7.3 for a total of 10,000 cycles. Before and after the cycle test, the door shall meet the pull force requirements of Section 19. The door shall have no loss of serviceability.	Without door	Not Applicable
17.8 Wear and Fatigue Test for Horizontal Receding Door	Set up as Section 17.8.2. Perform the test as Section 17.8.3 for a total of 20,000 cycles. Before and after the cycle test, the door shall meet the pull force requirements of Section 19. The door shall have no loss of serviceability.	Without door	Not Applicable
17.9 Vertical and Horizontal Receding Door Out Stop Test – Cyclic Impact & Durability	Set up as Section 17.9.2. Perform the Test as Section 17.9.3 for 5 cycles at Impact Test and 5,000 cycles at Durability Test. There shall be no loss of serviceability. Before and after performing the cyclic out stop test, the extendible element shall meet the pull force requirements of Section 19.	Without door	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating
17.10 Slam Closed Test for Vertically Hinged and Vertically Receding Doors	Set up as Section 17.10.2. The door with cable and hanging weight shall be held at 300 mm (12 in.) or 30 degrees from the closed position and then released, permitting the door to close, allowing it to impact the desk/table product case. Repeat this procedure for a total of 10 times without resetting the loading gaps. There shall be no loss of serviceability.	Without door	Not Applicable
17.11 Drop Test for Horizontally Hinged and Horizontally Receding Doors – Cyclic	Set up as Section 17.11.2. The door shall be lifted and dropped 200 times at a rate not to exceed 10 cycles per minute. There shall be no loss of serviceability to the desk/table unit or its components.	Without door	Not Applicable
17.12 Slam Test for Doors which Free Fall Open or Closed	This test applies to doors which slide or roll, either open or closed, under their own weight. (This test does not apply to doors that are hinged). Set up as Section 17.12.2. Allow the door to fall open/close freely. Repeat for a total of 50 cycles in each direction (if applicable). There shall be no loss of serviceability to the desk/table unit or its components.	Without door	Not Applicable
17.13 Slam Open and Closed Test for Doors which Do Not Free Fall	This test applies to doors which slide or roll, open and closed, but not under their own weight. This test does not apply to doors that are hinged. Set up as Section 17.13.2. Move the door, lifting the weight so the door will travel 300 mm (11.8 in.) or to the doorstop opposite the one to be impacted, whichever is less. Release the door, permitting the door to move rapidly, allowing it to impact the doorstop for a total of 10 times. Repeat the test to impact the opposite doorstop on the same door. There shall be no loss of serviceability to the desk/table unit or its components.	Without door	Not Applicable
17.14 Door Latch Test	Set up as Section 17.14.2. Operate the latch 20,000 times. There shall be no loss of serviceability to the door or its latching mechanism.	Without door	Not Applicable
18 Durability test for desks and tables with casters	These tests do not apply to keyboard/laptop tables. Set up as Section 18.2 with a 39 kg. (85 lb.) load to the primary surface and the functional load to all other surfaces through a length of stroke to 762 ± 51 mm (30 ± 2 in.).	Without casters	Not Applicable



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Tests Item	Test method and Requirements	Results-Remark	Rating									
	<p>Cycle the desk/table unit for the appropriate number of cycles over a platform with and without obstructions. For tilt-top tables, cycle the unit for half the cycles in the normal use position, then remove the load and tilt the table into the stowed position and continue the test for the remaining half of the cycles.</p> <p>There shall be no loss of serviceability to a caster or the desk/table.</p> <table border="1" data-bbox="373 720 1068 909"> <thead> <tr> <th>Unloaded Unit weight</th> <th>Cycles over obstacles</th> <th>Cycles over flat surface</th> </tr> </thead> <tbody> <tr> <td>≤ 45 kg (100 lbs.)</td> <td>2,500</td> <td>0</td> </tr> <tr> <td>&gt; 45 kg (100 lbs.)</td> <td>100</td> <td>1,000</td> </tr> </tbody> </table>	Unloaded Unit weight	Cycles over obstacles	Cycles over flat surface	≤ 45 kg (100 lbs.)	2,500	0	> 45 kg (100 lbs.)	100	1,000		
Unloaded Unit weight	Cycles over obstacles	Cycles over flat surface										
≤ 45 kg (100 lbs.)	2,500	0										
> 45 kg (100 lbs.)	100	1,000										
19 Pull Force Test	<p>Set up as Section 19.2.</p> <p>Open the extendible element or door from its fully closed position to its fully extended position while measuring the maximum force.</p> <p>The applied force shall not exceed 50 N (11.2 lbf.).</p>	Without extendible elements and doors	Not Applicable									
20 Tilting Top Table -- Cycle Test	<p>Set up as Section 20.2.</p> <p>Move the table top from its in-use position (typically its horizontal or near horizontal position) to its fully stowed position (typically vertical or near vertical) and then return to its in-use position for 2,500 cycles.</p> <p>Note: If a cycling device is used, then center the device on the top within 50 mm (2 in.) of the edge.</p> <p>There shall be no loss of serviceability and the table top shall be able to move throughout its range of motion.</p>	Not tilting top table	Not Applicable									
21 Tilting Top Table – Latch Strength Test	<p>Set up as Section 21.2.</p> <p>Apply an upward force of 222 N (50 lbs.) 25 mm (1 in.) inward and at the center of the edge of the table top in the direction that would typically move the table top into its stowed position.</p> <p>Move the table top to its stowed (vertical or most upright) position. With lock/latch engaged, apply a horizontal force of 133 N (30 lbs.) at the center of the edge of the table top in the direction that would typically move the table top into its in-use position.</p> <p>The lock/latch shall retain the top in its test position throughout the application of the test force(s). There shall be no loss of serviceability to the unit.</p>	Not tilting top table	Not Applicable									



Tests Item	Test method and Requirements	Results-Remark	Rating
22 Monitor Arm Strength Test	This test does not apply to freestanding monitor stands. Set up as Section 22.2 with the manufacturer's maximum load rating or a test weight of 20 kg (44 lbs.) (When no manufacturer's load rating is provided). Apply the test weight for 60 minutes. There shall be no loss of serviceability.	No monitor arm	Not Applicable
23 Monitor Arm Cycle Test	This test does not apply to freestanding monitor stands. Set up as Section 23.2 with the manufacturer's maximum load rating or a test weight of 20 kg (44 lbs.) (When no manufacturer's load rating is provided). Perform the test as Section 23.3 through its entire range of motion(s) for 2,500 cycles. There shall be no loss of serviceability. The unit shall not become disengaged during testing. Clamping or clutch mechanisms shall remain functional. Tensioning mechanisms must be capable of being reset to hold the monitor in its pretest position.	No monitor arm	Not Applicable
24 Monitor Arm Adapter Dislodgement Test	This test does not apply to freestanding monitor stands. Set up as Section 24.2 with a mock up monitor (test fixture) of the manufacturer's maximum rated load and size. If no load or size is specified, the mock-up monitor shall weigh 20 kg (44 lbs.) and have a diagonal dimension of 762 mm (30 in.) with a 16:9 ratio of length to height and a depth no greater than 76 mm (3 in.). Perform the test as Section 24.3 with a horizontal force of 40 N (9 lbf.) in three directions. There shall be no loss of serviceability.	No monitor arm	Not Applicable
25 Unattached Desk or Table Top Retention Test	The purpose of this test is to evaluate the retention of an unattached (held in place by friction) desk or table top. Set up as section 8.3. Test according to section 8.3 except the applied force shall be 111 N (25 lbf.). The top shall not move relative to the framework.	Fixed table	Not Applicable



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