

GUANGDONG HECHANGE FURNITURE CO.,LTD  
 NO 1 XINGLONG 3RD STREET ,LINJIANG INDUSTRIAL PARK ,HI-TECH DISTRICT,  
 ZHAOQING GUANGDONG PROVINCE,CHINA

Sample Description : LEO TRAINING TABLE  
 Item No. : LEO  
 Manufacturer : GUANGDONG HECHANGE FURNITURE CO.,LTD  
 Country of Origin : CHINA

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.

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Sample Receiving Date : Apr 23, 2021  
 Test Performing Date : Apr 23, 2021 to Apr 28, 2021  
 Test Performed : Selected test(s) as requested by applicant

**Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments
1	ANSI/BIFMA X5.5-2021	PASS	/
For further details, please refer to the following page(s)			

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



Bill Wang  
 Authorized Signatory

scan to see the report



SDHL2104006559FT



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SGS-CSTC Standards Technical Services Co., Ltd.  
 Shunde Branch Harbin

1/F, 1<sup>st</sup> Building, European Industrial Park, No.1 Shunhe South Road, Wusha Section, Daliang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

TESTS AND RESULTS

**Test Conducted:**

ANSI/BIFMA X5.5-2021 Desk and Table Products.

**No. of Sample:**

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

Test and Requirements	Test Results
<b>3.3 Clearances</b>	
<p><b>3.3.1 Clearance Between Adjusting Primary and Secondary Surfaces</b> 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.</p>	N/A
<p><b>3.3.2 Foot Clearance for Height Adjustable Tables</b> 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.</p>	N/A
<p><b>3.12 Glass Surfaces</b> For horizontal surfaces, glass shall meet the requirements of ASTM F2813 <i>Standard Specification for Glass Used as a Horizontal Surface in Desks and Tables</i>. 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.</p>	N/A
<p><b>4.2 Stability with Extendible Elements Open Test</b> 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.</p>	N/A
<p><b>4.3 Stability Under Vertical Load Tests</b> 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.). 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.</p>	PASS
<p><b>4.4 Horizontal Stability Test for Desks and Tables with Casters</b> 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.</p>	PASS



Test and Requirements	Test Results
<p><b>4.5 Horizontal Stability Test for Keyboard/Laptop Tables (with and without casters)</b>                      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.</p>	<p>N/A</p>
<p><b>4.6 Force Stability Test for Tall Desk and Table Products</b>                      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:</p> <ul style="list-style-type: none"> <li>• 177 N (40 lbf.) is reached,</li> <li>• The product tilts to 10 degrees (as measured on the lower part of the unit),</li> <li>• The vertical angle on the screen or storage element tilts to 10 degrees</li> <li>• The horizontal movement at the point of application on the screen is 165 mm (6.5 in.)</li> </ul> <p>The unit shall not tip over. Loss of serviceability is acceptable.</p>	<p>N/A</p>
<p><b>5.2 Concentrated Functional Load Test</b>                      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.</p>	<p>PASS</p>
<p><b>5.3 Distributed Functional Load Test</b>                      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.</p>	<p>PASS</p>
<p><b>5.4 Concentrated Proof Load Test</b>                      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.</p>	<p>PASS</p>





Test and Requirements	Test Results
<p><b>5.5 Distributed Proof Load Test</b>                      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.</p>	<p>PASS</p>
<p><b>5.6 Transaction Surface Torsion Load Test</b>                      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.</p>	<p>N/A</p>
<p><b>5.7.2 Extendible Element Functional Load Test</b>                      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.</p>	<p>N/A</p>
<p><b>5.7.3 Extendible Element Proof Load Test</b>                      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.</p>	<p>N/A</p>
<p><b>5.8 Benching Systems - Distributed Functional Load and Stability Test</b>                      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.</p>	<p>N/A</p>
<p><b>5.9 Benching Systems - Distributed Proof Load Test</b>                      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.</p>	<p>N/A</p>



Test and Requirements	Test Results												
<p><b>6 Top Load Ease Cycle Test</b>                      This test does not apply to:</p> <ul style="list-style-type: none"> <li>surfaces greater than 965 mm (38 in.) in height, or height adjustable units that cannot be adjusted to 965 mm (38 in.) or below.</li> <li>shelves or adjustable keyboard surfaces or keyboard/laptop tables. (If it is unclear whether the surface is a primary surface or a shelf, this test applies).</li> <li>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.</li> </ul> <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>	<p>PASS</p>												
<p><b>7 Desk/Table Unit Drop Test</b>                      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.                      On desk/table units with adjustable features, set the adjustable features at the midpoint of adjustment.                      Perform the Test as Section 7.3 at the height given below or at the balance point, whichever is lower.                      There shall be no loss of serviceability. The extendible elements shall meet the pull force test requirements in Section 19.</p> <table border="1" data-bbox="448 1193 928 1384"> <thead> <tr> <th colspan="2" style="text-align: center;">Drop Height for Desk/Table Units</th> </tr> <tr> <th style="text-align: center;">Unit Weight</th> <th style="text-align: center;">Drop Height</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">&lt;45 kg (100 lb.)</td> <td style="text-align: center;">180 mm (7.1 in.)</td> </tr> <tr> <td style="text-align: center;">45- 90 kg (100-200 lb.)</td> <td style="text-align: center;">120 mm (4.7 in.)</td> </tr> <tr> <td style="text-align: center;">&gt;90 – 136 kg (200 - 300 lb.)</td> <td style="text-align: center;">60 mm (2.4 in.)</td> </tr> <tr> <td style="text-align: center;">&gt; 136 kg (300 lb.)</td> <td style="text-align: center;">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	<p>N/A</p>
Drop Height for Desk/Table Units													
Unit Weight	Drop Height												
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> 136 kg (300 lb.)	n/a												
<p><b>8 Leg Strength Test</b>                      All forces must be performed on a single leg / support element. It is not necessary to repeat forces on legs or support elements of identical construction. These tests do not apply to keyboard/laptop tables.                      Tilt Top Tables shall be tested in the normal use position (not the stowed position).                      Use 8.3 Leg Strength Alternate for designs in which the Leg Strength test cannot be conducted due to its design, for example a “scissors-type” leg that folds when loaded. If 8.3 is used, then the test report must specifically declare its use.</p>													



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Test and Requirements	Test Results
<p><b>8.2 Leg Strength Test – Standard</b>                      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 its top. These units are to be tested to the Leg Strength Test – Alternate in Section 8.3.                      Set up as Section 8.2.1.                      Perform <b>the Functional Test</b> 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, release of the top latching mechanism during the test is considered a loss of serviceability.                      Perform <b>the Proof Test</b> 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.</p>	<p>PASS</p>
<p><b>8.3 Leg Strength Test – Alternate</b>                      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 <b>the Functional Test</b> 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 <b>the Proof Test</b> 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.</p>	<p>N/A</p>



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Test and Requirements	Test Results										
<p><b>9 Separation Tests for Tall Desk/Table Products with Vertically Attached or Stacked Components</b></p> <p>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.</p> <p>This test does not apply to:</p> <ul style="list-style-type: none"> <li>• storage segments or screens weighing less than 9 kg (20 lbs.), or to</li> <li>• 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)</li> </ul> <p>For height adjustable tables, the applicability determination shall be made with the table in its highest position.</p> <p>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)</p> <p>If storage segments or screens are stacked together and their combined weight is more than 9 kg (20 lbs.), the combination shall be tested.</p> <p>If the manufacturer's instructions indicate that the unit must be placed against the wall, then no back or front horizontal separation tests are required.</p> <p>Set up as Section 9.2.</p> <p>Perform the Test as Section 9.3.</p> <p>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>	N/A										
<p><b>10 Extendible Element Cycle Tests</b></p> <p>Tests 10.2 and 10.3 do not apply to extendible elements with functional load capacity (per Table 1) of less than 7 kg (15.4 lb.) and without mechanical suspensions (slides). Low height drawers are tested per Section 10.4.</p>											
<p><b>10.2 Cycle Test for Extendible Elements as Deep as or Deeper Than Wide</b></p> <p>Set up as Section 10.2.1.</p> <p>Perform the Test as Section 10.2.2 for 50,000 cycles.</p> <p>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>	N/A										
<p><b>10.3 Cycle Test for Extendible Elements Wider Than Deep</b></p> <p>Set up as Section 10.3.1.</p> <p>Perform the Test as Section 10.3.2 for 50,000 cycles.</p> <p>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" data-bbox="371 1655 1003 1906"> <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	N/A
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										
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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										



Test and Requirements	Test Results
<p><b>10.4 Cycle Test for Low Height Drawers</b>                      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>	<p>N/A</p>
<p><b>11 Extendible Element Retention Impact and Durability (Out Stop) Tests</b>                      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.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="159 828 694 1052"> <p>Figure 11a - Extendible Element Retention Impact Test</p> </div> <div data-bbox="710 828 1212 1052"> <p>Figure 11b - Extendible Element Retention Durability (Out Stop) Test</p> </div> </div>	<p>N/A</p>
<p><b>12 Extendible Element Rebound Test</b>                      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.</p> <div data-bbox="430 1388 933 1624"> </div>	<p>N/A</p>
<p><b>13 Interlock Strength Test</b>                      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.</p>	<p>N/A</p>





Test and Requirements	Test Results
<p><b>14.2 Force Test for Extendible Element Locks</b>            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.</p>	<p>N/A</p>
<p><b>14.3 Force Test for Door Locks</b>            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.</p>	<p>N/A</p>
<p><b>14.4 Locking Mechanism Cycle Test</b>            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.</p>	<p>N/A</p>
<p><b>15 Work Surface Vertical Adjustment Test</b>            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.            Set up as Section 15.2.            Perform the Test as Section 15.3 for 5010 cycles.            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.            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>	<p>N/A</p>
<p><b>16 Keyboard Support and Input Device Support Adjustment Tests</b>            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).            Perform the Test as Section 16.3 for 2500 cycles.            There shall be no loss of serviceability.</p>	<p>N/A</p>



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Test and Requirements					Test Results							
<b>Door Test Applicability</b>												
Door Type/Test	Strength Tests	Cycling Wear & Fatigue Tests	Slam Tests	Lock Tests	Latch Test	Pull Test						
Vertically Hinged Doors, Bi-fold and Multi-fold Doors	17.2 & 17.3	17.6	17.10	14.3 & 14.4	17.14	19						
Horizontally Hinged Doors	5.3 & 5.4 for bottom hinged doors. n/a for top-hinged doors	17.6	17.11 n/a for bottom-hinged doors	14.3 & 14.4	17.14	19						
Vertical Receding Doors	17.2, 17.3 & 17.4	17.6, 17.7 & 17.9	17.10	14.3 & 14.4	17.14	19						
Horizontal Receding Doors	17.5	17.6, 17.8 & 17.9	17.11	14.3 & 14.4	17.14	19						
Horizontally Sliding / Roll Front	n/a	17.6	17.12 or 17.13 (as applicable)	14.3 & 14.4	17.14	19						
Tambour	n/a	17.6	17.12 or 17.13 (as applicable)	14.3 & 14.4	17.14	19						
<b>17.2 Strength Test for Vertically Hinged Doors, Bi-fold Doors and Vertically Receding Doors</b> This test does not apply to multi-fold (accordion / more than two folds) doors. 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. 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. There shall be no loss of serviceability to the unit.					N/A							
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Door height</th> <th>Load</th> </tr> </thead> <tbody> <tr> <td>Less than 46 cm (18 in.).</td> <td>10 kg (22 lb.)</td> </tr> <tr> <td>46 cm (18 in.) and greater</td> <td>20 kg (44 lb.)</td> </tr> </tbody> </table>					Door height	Load	Less than 46 cm (18 in.).	10 kg (22 lb.)	46 cm (18 in.) and greater	20 kg (44 lb.)		
Door height	Load											
Less than 46 cm (18 in.).	10 kg (22 lb.)											
46 cm (18 in.) and greater	20 kg (44 lb.)											
<b>17.3 Hinge Override Test for Vertically Hinged Doors</b> 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. There shall be no loss of serviceability to the desk/table unit or its components.					N/A							



Test and Requirements	Test Results
<p><b>17.4 Vertical Receding Doors Strength Test</b>            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.</p>	<p>N/A</p>
<p><b>17.5 Horizontal Receding Doors Strength Test</b>            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.            There shall be no loss of serviceability to the desk/table unit or its components.</p>	<p>N/A</p>
<p><b>17.6 Wear and Fatigue Test for Hinged, Horizontally Sliding, and Tambour Doors</b>            Set up as Section 17.6.2.            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.</p>	<p>N/A</p>
<p><b>17.7 Wear and Fatigue Test for Vertical Receding Doors</b>            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.</p>	<p>N/A</p>
<p><b>17.8 Wear and Fatigue Test for Horizontal Receding Doors</b>            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.</p>	<p>N/A</p>
<p><b>17.9 Vertical and Horizontal Receding Door Out Stop Test – Cyclic Impact and Durability</b>            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.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="207 1590 670 1825"> <p>Figure 17h - Vertical and Horizontal Receding Door Out Stop Test - Cyclic Impact</p> </div> <div data-bbox="686 1568 1165 1825"> <p>Figure 17i - Vertical and Horizontal Receding Door Out Stop Test - Cyclic Durability</p> </div> </div>	<p>N/A</p>





Test and Requirements	Test Results									
<p><b>17.10 Slam Closed Test for Vertically Hinged and Vertically Receding Doors</b>            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.</p>	N/A									
<p><b>17.11 Drop Cycle Test for Horizontally Hinged and Horizontally Receding Doors</b>            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.</p>	N/A									
<p><b>17.12 Slam Test for Doors Which Free Fall Open or Closed</b>            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.</p>	N/A									
<p><b>17.13 Slam Open and Closed Test for Doors which Do Not Free Fall</b>            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 doorstep opposite the one to be impacted, whichever is less.            Release the door, permitting the door to move rapidly, allowing it to impact the doorstep for a total of 10 times.            Repeat the test to impact the opposite doorstep on the same door.            There shall be no loss of serviceability to the desk/table unit or its components.</p>	N/A									
<p><b>17.14 Door Latch Test</b>            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.</p>	N/A									
<p><b>18 Durability Test for Desks and Tables with Casters</b>            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.).            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.            There shall be no loss of serviceability to a caster or the desk/table.</p> <table border="1" data-bbox="150 1715 1203 1832"> <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	PASS
Unloaded Unit weight	Cycles over obstacles	Cycles over flat surface								
≤ 45 kg (100 lbs.)	2,500	0								
> 45 kg (100 lbs.)	100	1,000								



Test and Requirements	Test Results
<p><b>19 Pull Force Test</b> Set up as Section 19.2. Open the extendible element or door from its fully closed position to its fully extended position while measuring the maximum force. The applied force shall not exceed 50 N (11.2 lbf.).</p>	N/A
<p><b>20 Tilt-Top Table -- Cycle Test</b> Set up as Section 20.2. 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. Note: If a cycling device is used, then center the device on the top within 50 mm (2 in.) of the edge. There shall be no loss of serviceability and the table top shall be able to move throughout its range of motion.</p>	PASS
<p><b>21 Tilt-Top Table – Latch Strength Test</b> Set up as Section 21.2. 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. 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. 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>	PASS
<p><b>22 Monitor Arm Strength Test</b> 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.</p>	N/A
<p><b>23 Monitor Arm Cycle Test</b> 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.</p>	N/A
<p><b>24 Monitor Arm Dislodgement Test</b> 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.</p>	N/A



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Test and Requirements	Test Results
<p><b>25 Unattached Desk or Table Top Retention Test</b>                      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.</p>	<p>N/A</p>
<p><b>Appendices</b>                      a) Normative Appendix: mandatory section of the standard when applicable, i.e. part of the standard's requirements when applicable.                      b) Informative Appendix: not a mandatory section of the standard, i.e. not a part of the standard's requirements.</p>	
<p><b>Informative Appendix B – Stability Test for Desk/Table Products that accommodate Monitors</b>                      The purpose of this test is to evaluate the stability of desk/table products that accommodate Monitors. This test applies to units with a surface height of 914 mm (36 in.) or greater including height adjustable tables that have 914 mm (36 in.) in the adjustment range. This test does not apply to units in which the manufacturer clearly states that monitors shall not be installed on the unit. This test permits manufacturers to specify the quantity of monitors for either the Single or Stacked configuration.                      Set up as Section B.2.                      Gradually apply a horizontal force at a worst-case point on the front edge of the primary surface. The force applied shall remain horizontal throughout its application. A test fixture/adapter shall be used if the edge of the top is not parallel to the line formed by the obstruction(s).                      Gradually increase the force in step (a) until one of the following occurs:</p> <ul style="list-style-type: none"> <li>• 177 N (40 lbf.) is reached,</li> <li>• The product tilts to 10 degrees (as measured on the lower part of the unit).</li> </ul> <p>The unit shall not tip over.</p>	<p>N/A</p>

**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.





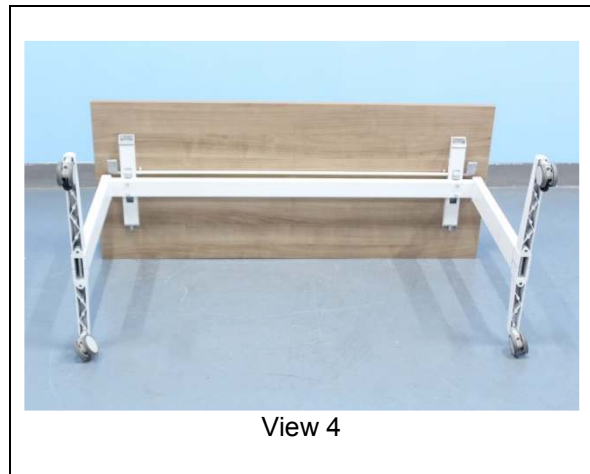
**SAMPLE INFORMATION AND PICTURES**

**Weight:** 24.00 kg

**Overall Dimensions:** 1400 mm L x 600 mm W x 756 mm H

**Other Dimensions:** /

**Sample as Received**



\*\*\*End of Report\*\*\*

