



CLIENT: National Public Seating
149 Entin Road
Clifton NJ 07014
United States

Attn.: Jay Freundlich

Test Report No: 4693510-TL-01

Date: November 20, 2020

SAMPLE ID: Steel Frame SLT/Heavy- Duty Table

DATE OF RECEIPT: October 30, 2020

TESTING PERIOD: October 30- November 20, 2020

TESTS REQUESTED: The submitted samples were tested for the following tests in accordance with the procedures outlined in the ANSI/BIFMA X5.5-2014 (Clauses 4, 5, 6, 7, 8)

TEST RESULTS: See pages below

PREPARED BY: SIGNED FOR AND ON BEHALF OF SGS NORTH AMERICA INC.,

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Photograph Section:

Submitted Samples



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ANSI/BIFMA X5.5-2014 Desk/Table Products

Test No.	Description	Results
4	Stability Tests	PASS
5	Unit Strength Tests	PASS
6	Top Load Ease	PASS
7	Desk/Table Unit Drop Test	PASS
8	Leg Strength Test	PASS
19	Pull Force Test	Not applicable

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Test Item	Test Method & Requirements	Result
4.1	Stability Tests	
4.2 Purpose of Tests The purpose of these tests is to evaluate the stability of the desk/table product.		
Stability with Extendible Elements Open Test 4.2.2 Test Procedure: figure 4a Gradually open the loaded extendible element(s) to the fullest extension the unit will allow. (Open simultaneously if there are two extendible elements).		
Acceptance level	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. Note: The use of devices such as casters on a bottom extendible element is an acceptable method of preventing tipping.	Not Applicable

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Test Item	Test Method & Requirements	Result
4.3	Stability Under Vertical Load Test	
Note: This test applies to table/desks with or without extendible elements. This test does not apply to Keyboard/Laptop Tables or Benching Systems. 4.3.2 Test Procedure: figure 4b and 4c a) For tables less than or equal to 72 in. in length: Place a 305 mm (12 in.) diameter disk so that its center is 178 mm (7 in.) from the edge of the top at the least stable location. If the center of the disk is greater than 305 mm (12 in.) from a corner of the top, move the disk such that its center is 305 mm (12 in.) 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 356 mm (14 in.), center the loading disk across the depth at that position. For tables greater than 72 in. in length: Place two 305 mm (12 in.) diameter disks 36 in. apart (center-to-center) so that their centers are 178 mm (7 in.) from the edge of the top at the least stable location. If the center of a disk is greater than 305 mm (12 in.) from a corner of the top, move the disk such that its center is 305 mm (12 in.) 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 356 mm (14 in.), center the loading disks across the depth at that position. (See Figures 4b and 4c). b) Place a 57 kg (125 lb.) static load on the disk(s). c) If necessary, repeat steps (a) and (b) to verify the least stable position has been evaluated.		
Acceptance Level	The unit shall not tip over. If one of more extendible elements 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.	PASS

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Test Item	Test Method & Requirements	Result
4.4	Horizontal Stability Test for Desk/Tables with Casters	
Note: this test applies to table/desks 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 (See Section 4.5). 4.4.2 Test Procedure: figure 4d a) Apply a 11.4 kg (25 lb.) static load through a 203 mm (8 in.) diameter disk centered 102 mm (4 in.) from the edge of the top of the desk/table at the least stable location. b) The casters that primarily support the load in (a) shall be blocked with an obstruction or other restraining device 13 mm (0.5 in.) in height affixed to the test platform. The device shall prevent sliding but not restrict the unit from tipping. Casters shall be oriented in their least stable position. c) Gradually apply a horizontal force to the top surface, perpendicular to the worst case fulcrum ("tipping line") but not more than 13 mm (0.5 in.) below the top surface directly opposite the load. If the geometry of the top surface does not permit a direct application of the load, the geometry of the top surface may be altered to accommodate the 13 mm (0.5 in.) dimension. (See Fig. 4d). The load shall be applied perpendicular to the line formed by the caster obstruction(s) in (b), until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The force applied shall remain horizontal throughout its application. (Angle measuring device must be accurate to within ± 0.5 degree). A test fixture/adaptor shall be used if the edge of the top is not parallel to the line formed by the obstruction(s) in (b). (Fig. 4d) d) If necessary, repeat Steps (a) through (c) to verify the least stable position has been evaluated.		
Acceptance level	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.	Not Applicable

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Test Item	Test Method & Requirements	Result
4.5	Stability Test for Keyboard/Laptop Tables (with and without casters)	
Note: This test does not apply to lightweight keyboard/laptop tables weighing less than or equal to 7 kg (15 lbs.). 4.5.2 Test Procedure: figure 4d a) Apply a 4.5 kg (10 lb.) static load through a 203 mm (8 in.) diameter disk centered 102 mm (4 in.) from the edge of the top of the desk/table at the least stable location. b) The feet/casters that primarily support the load in (a) shall be blocked with an obstruction or other restraining device 13 mm (0.5 in.) in height affixed to the test platform. The device shall prevent sliding but not restrict the unit from tipping. If present, casters shall be oriented in their least stable position. c) Gradually apply a horizontal force to the top surface, perpendicular to the worst case fulcrum ("tipping line") but not more than 13 mm (0.5 in.) below the top surface directly opposite the load. If the geometry of the top surface does not permit a direct application of the load, the geometry of the top surface may be altered to accommodate the 13 mm (0.5 in.) dimension. (See Fig. 4d). The load shall be applied perpendicular to the line formed by the feet/caster obstruction(s) in (b), until 44.5 N (10 lbf.) is reached, or the product tilts to 10 degrees minimum, whichever occurs first. The force applied shall remain horizontal throughout its application. (Angle measuring device must be accurate to within ± 0.5 degree). A test fixture/adaptor shall be used if the edge of the top is not parallel to the line formed by the obstruction(s) in (b). (Fig. 4d) d) If necessary, repeat Steps (a) through (c) to verify the least stable position has been evaluated.		
Acceptance level	The unit shall not tip over.	Not applicable

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Test Item	Test Method & Requirements	Result
4.6	Force Stability Test for Tall Desk/Table Products	
Purpose of Tests The purpose of these tests is to evaluate the stability of the desk/table product.		
Force Stability	This test applies to any unit that is higher than or can be adjusted to heights greater than 1067 mm (42 in.). 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 also applies to units with mechanically attached screen or storage segments that are greater than 1067 mm (42 in.) in height and weigh more than 4.5 kg (10 lbs.). This test does not apply to screen or storage segments installed exclusively in between double sided benching systems and desk/table products.	
4.6.3 Test Procedure: figure 4e a) Apply the horizontal forces through the center of a disk that is 203 mm (8 in.) in diameter. If the geometry of the product inhibits the use of the 203 mm (8 in.) disk, apply the force through a smaller diameter disk. If the location for the force is centered on an open area, then move the location of the force to the closest vertical or horizontal location on the unit. b) Gradually increase the force until 177 N (40 lbf.) is reached, the product tilts to 10 degrees, or the horizontal movement at the point of application is 165 mm (6.5 in.) whichever occurs first (angle measuring device must be accurate to within ± 0.5 degree) at the locations specified in step (c). c) The forces shall be applied one at a time to the following locations in the order given located 1372 mm (54 in.) from the floor or 102 mm (4 in.) down from the top edge, whichever is lower: location 1: Apply force to front of the product at its left side, location 2: Apply force to front of the product at its right side, location 3: Apply force to back of the product at its left side, location 4: Apply force to back of the product at its right side. See Figure 4e for a description of the force locations.		
Acceptance level	The unit shall not tip over, and there shall be no loss of serviceability. Assembled desk/table products shall not disengage. If one or more extendible elements 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.	Not applicable

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Unit Strength Tests

Notes:

- The following unit strength tests may be conducted in any order (concentrated vs.distributed loadings), however the functional loadings should be applied prior to the proof loadings.
- Benching Systems as defined in 2.4 are to be tested per sections 5.2, 5.8 and 5.9. The tests in 5.8 and 5.9 do not apply to desk extensions (returns) that are fastened to Benching Systems. Desk extensions when attached to Benching System products shall be tested to the applicable tests per 5.2-5.5.
- These tests do not apply to keyboard/laptop tables weighing less than or equal to 6.8 kg. (15 lbs.).

Test Item	Test Method & Requirements	Result
5	Unit Strength Tests Concentrated Functional load Test	
Purpose of Tests The purpose of these tests is to evaluate the ability of the unit to withstand static loads when loaded to its full capacity. Combined components shall be tested simultaneously as a unit (See definition 2.55). For cabinets with doors that stow above the cabinet top, the top surface shall not be loaded during these tests.		
Note: This test does not apply to units with a primary surface greater than 965 mm (38 in.) in height. This test applies to adjustable height tables that can be adjusted to 965 mm (38 in.) or less. This test applies to Benching Systems (See also 5.8 and 5.9).		
5.2.2 Test Procedure: figure 5a-d and 4c a) Loads shall be allowed to remain for 60 minutes. b) Remove only the concentrated load(s) from the primary surface. c) Without removing any other loads, perform the Pull Force Test in Section 19.		
Acceptance level	There shall be no loss of serviceability. Upon completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19 as tested in 5.2.2.	PASS

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Test Item	Test Method & Requirements	Result
5.3	Distributed Functional Load Test	
5.3.2 Test Procedure: figures 5e through 5h a) Loads shall be allowed to remain for 60 minutes. b) Close the extendible elements. c) Without removing any load, perform the Pull Force Test in Section 19.		
Acceptance Level	There shall be no loss of serviceability. Upon the completion of the test, the extendible member(s) shall meet the pull force requirements of Section 19 as tested in 5.3.2.	PASS 214 LBS.

Additional Information:

Test Item	Test Method & Requirements	Result
5.4	Concentrated Proof Load Test	
Note: This test does not apply to units with a primary surface greater than 965 mm (38 in.) in height. This test applies to adjustable height tables that can be adjusted to 965 mm (38 in.) or less.		
5.4.2 Test Procedure: figure a-d and 4c Loads shall be allowed to remain for 15 minutes and then removed.		
Acceptance Level	There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.	PASS 300 LBS.

Additional Information:

Test Item	Test Method & Requirements	Result
5.5	Distributed Proof Load Test	
5.5.2 Test Procedure: figure 5e-h Loads shall be allowed to remain for 15 minutes and then removed.		
Acceptance Level	There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.	PASS 328 LBS.

Additional Information:

Test Item	Test Method & Requirements	Result
5.6	Transaction Surface Torsion Load Test	
Purpose of Test The purpose of this test is to evaluate the ability of the transaction surface to withstand torsional static loads which they may be subjected to when in use. If it is not clear if a surface is secondary or transaction, this test applies.		
Test Procedure: figure 5i a) Allow the suspended weight to remain in place for 15 minutes. b) Remove the weight. c) If the transaction surface and/or its support are not symmetrical, repeat the test with the weight suspended from the opposite edge.		
Acceptance Level	There shall be no loss of serviceability.	Not Applicable

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Test Item	Test Method & Requirements	Result
5.7	Unit Strength Tests	
Purpose of Tests The purpose of these tests is to ensure that the extendible element (including suspension system, interlock, in-stop/anti-rebound, detent mechanisms, etc.) is durable and/or capable of		
Extendible Element Functional Load Test The functional loading tests for extendible elements are performed as described in Section 5.2 and 5.3 and need not be repeated if they have already been performed.		
Extendible Element Proof Load Test This test does not apply to low height drawers.		
Test Procedure a) Close the extendible element and allow the load to remain for 15 minutes. b) Open the extendible element, allow the load to remain for 15 minutes, and then remove the load. c) Repeat the test as necessary for each element per Section 3.1.5.		
Acceptance level	There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.	Not Applicable

Test Item	Test Method & Requirements	Result
5.8	Benching Systems Distributed Functional Load and Stability Test	
Note: Benching System product stability tests should be tested in worst-case conditions which will typically be without extensions (if the design allows for such configuration).		
Note: Benching Systems shall also be tested to the Concentrated Load Test per Section 5.2.		
Test Procedure: figure 5j Loads shall be allowed to remain for 60 minutes.		
Acceptance Level	There shall be no loss of serviceability. The system shall not tip over. Note: 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.	Not Applicable

Test Item	Test Method & Requirements	Result
5.9	Distributed Proof Load Test	
Test Procedure: figure 5j Loads shall be allowed to remain for 15 minutes.		
Acceptance Level	There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable	Not Applicable

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Test Item	Test Method & Requirements	Result
6	Top Load Ease Cycle Test	
Purpose of Test The purpose of this test is to evaluate the durability of the unit to withstand cyclic loading of the primary surface(s) resulting from a person sitting on the unit. This test does not apply to: a) surfaces greater than 965 mm (38 in.) in height, or height adjustable units that cannot be adjusted to 965 mm (38 in.) or below. b) shelves or adjustable keyboard surfaces or keyboard tables. (If it is unclear whether the surface is a primary surface or a shelf, this test applies). c) 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.		
Test Procedure: figure 6 a) Prior to performing the test procedure, all extendible elements shall be tested to and meet the pull force requirements of Section 19. b) The bag shall be raised until the entire weight is off the primary surface and then eased (without impact) onto the primary surface, so that it takes the entire weight without any support from the cycling device. c) Repeat Step b) for a total of 10,000 cycles. d) Remove the bag and perform the pull force test in Section 19.		
Acceptance level	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.	PASS

Test Item	Test Method & Requirements	Result
7	Desk/ Table Unit Drop Test	
Purpose of Test The purpose of this test is to determine the ability of a desk/table unit to withstand an impact force on the legs, column or base.		
Test procedure: figure 7 a) Assure all extendible elements and surfaces are unloaded and determine the weight of the unloaded desk/table unit to be tested. b) The unit shall be placed on a test platform and leveled. If the desk/table unit is equipped with glides, extend them to their midpoint but not to exceed 13 mm (0.5 in.) from the fully retracted position. c) Raise one end of the long axis of the unloaded unit 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. d) The end of the unit being tested shall be released and allowed a free fall to the test platform. e) Repeat steps (c) and (d) for the other end of the desk/table unit. f) Perform the pull force test in Section 19.		
Acceptance level	There shall be no loss of serviceability. The extendible elements shall meet the pull force test requirements in Section 19.	PASS

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Test Item	Test Method & Requirements	Result
8	Leg Strength Test	
Purpose of Test The purpose of this test is to evaluate the ability of desk/table product to withstand handling or moving. All tests must be performed on a single leg structure. It is not necessary to repeat tests on legs or support elements of identical construction.		
Note: These tests do not apply to keyboard/laptop tables.		
Functional Test Procedure: figure 8 - Attach a loading device to the support member to be loaded. The placement of the loading device shall be within 25 mm (1 in.) of the end of the support member/glide assembly that makes contact with the floor. The placement of the loading device shall be as close to the glide end as possible (may be on the glide stem, but not on the glide foot itself). For tables with casters, apply the load as close as possible to the end of the support member but not to the caster assembly. - Individually and separately apply the functional horizontal forces ("A" and "B") as described in Figure 8. - Repeat steps (a) and (b) for each unique type or non-symmetrically placed supporting member on the desk/table product. - If the leg being tested is attached to a desk pedestal, perform the pull force test per Section 19 on each type and size of extendible element in the attached desk pedestal.		
Proof Test Procedure - Attach a loading device to the support member to be loaded. The placement of the loading device shall be within 25 mm (1 in.) of the end of the support member. The load shall not be applied to the glide assembly (including stem, glide foot, etc.) or caster assembly. - Individually and separately apply the horizontal proof forces ("A" and "B") as described in Figure 8. - Repeat steps (a) and (b) for each unique type or non-symmetrically placed supporting member on the desk/table product.		
Acceptance Level	Functional Test Acceptance Level No loss of serviceability shall occur as a result of the application of the functional loads. After application of the functional loads, each type and size extendible element in a leg-attached desk pedestal shall be tested to and 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.	PASS
	Proof Test Acceptance Levels Application of the proof loads shall cause no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.	PASS

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Test Item	Test Method & Requirements	Result
19	Pull Force Test	
Purpose of Test The purpose of this test is to measure the force required to move an extendible element or door from the fully closed position to the fully extended position.		
Test Procedure; figure 19 Open the extendible element or door from its fully closed position to its fully extended position while measuring the maximum force.		
Acceptance level	The applied force shall not exceed 50 N (11.2 lbf.).	Not Applicable

Additional Information: /

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

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