

# INNOVATIVE OFFICE PRODUCTS LLC.

## TEST REPORT

**SCOPE OF WORK**

ANSI/BIFMA X5.5-2014 DESK/TABLE PRODUCTS and EN 527-2:2016+A1:2019 / EN 1730:2012  
testing on SIS Height Adjustable Table: SX27022BBM6LG

**REPORT NUMBER**

104410669GRR-001A

**ISSUE DATE**

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38

**DOCUMENT CONTROL NUMBER**

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## REPORT FOR INNOVATIVE OFFICE PRODUCTS LLC

Report No.: 104410669GRR-001

Date: 17-Sep-2020

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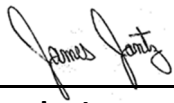
### SECTION 1

#### CLIENT INFORMATION

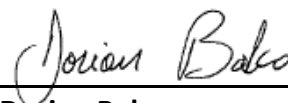
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## SECTION 2

### SUMMARY AND CONCLUSION

Date Received: 11-Aug-2020

Dates Tested: 12-Aug-2020-31-Aug-2020

### DESCRIPTION OF SAMPLES AS RECEIVED

Part Description: SIS Height Adjustable Table

Part Number: SX27022BBM6LG

Condition of Samples: New Packaged Sample

Number of Samples Received: One (1)

### WORK REQUESTED/APPLICABLE DOCUMENTS

ANSI/BIFMA X5.5-2014 DESK/TABLE PRODUCTS and EN 527-2:2016+A1:2019 / EN 1730:2012

Intertek quote QU-1088284

SAMPLE ID	ANSI/BIFMA X5.5-2014 DESK/TABLE PRODUCTS	CONCLUSION
1	4.3 Stability Under Vertical Load Test	CONFORMING
1	4.6 Force Stability Test for Tall Desk/Table Products	CONFORMING
1	5.2 Concentrated Functional Load Test	CONFORMING
1	5.3 Distributed Functional Load Test	CONFORMING
1	5.4 Concentrated Proof Load Test	CONFORMING
1	5.5 Distributed Proof Load Test	CONFORMING
1	6. Top Load Ease Cycle Test	CONFORMING
1	7. Desk/Table Unit Drop Test	CONFORMING
1	8. Leg Strength Test	CONFORMING
1	15. Work Surface Vertical Adjustment Test	CONFORMING

SAMPLE ID	EN 527-2:2016+A1:2019 / EN 1730:2012	CONCLUSION
1	EN 527-2 4 Safety Requirements	CONFORMING
1	EN 1730 6.2 Horizontal Static Load Test	CONFORMING
1	EN 1730 6.3.1 Vertical Static Load Test	CONFORMING
1	EN 1730 6.3.2 Additional Vertical Static Load Test	CONFORMING
1	EN 1730 6.3.3 Vertical Static Load Test on Ancillary Surface	N/A
1	EN 1730 6.4.2 Horizontal Durability Test	CONFORMING
1	EN 1730 6.5 Vertical Durability Test	CONFORMING
1	EN 1730 6.9 Drop Test	CONFORMING
1	EN 1730 7.2 Stability Under Vertical Load	CONFORMING

### SAMPLE DISPOSITION

The sample remains at Intertek at the issuance of this report.

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**TEST EQUIPMENT**

ASSET ID	DESCRIPTION	CAL DATE	CAL DUE
138012	Fairbanks Beam Scale 0 to 1000lb x 0.25lb	09/30/2019	09/30/2020
13520	Graduated Rule 36"	01/06/2020	01/06/2021
149010	Force Gauge	12/23/2019	12/23/2020
138148	Digital Protractor	12/18/2019	12/18/2020
117500.29	Stopwatch	05/19/2019	10/14/2020
138397	Vert Loading Test Stand w/ Controller	VBU	VBU
138039.1	200 Lb. Weight Bag	VBU	VBU
138427	CHATILLON – 1000lbf Load Cell with Display	06/02/2020	06/02/2021
138523	Round Head Test Probe Set (7/12/18mm Ø)	VBU	VBU
138521	AE140 – SWANSON – METER STICK	01/09/2020	01/09/2021
138450	LUFKIN – 30" Tape Measure	12/23/2019	12/23/2020
138375	MITUTOYO – 500-196-30 Digital Caliper	01/27/2020	01/27/2021
138916.2	Intertek – Timing Box	VBU	VBU
138279	CHATILLON – 100lbf Force Gauge	12/30/2019	12/30/2020

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**SECTION 3****4.3 STABILITY UNDER VERTICAL LOAD TEST:**

Date Received: 11-Aug-2020

Date Tested: 26-Aug-2020

Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Description: SIS Height Adjustable Table

Number of Samples Tested: One (1)

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 4.3:

The unit shall be levelled. Placement of the load shall be on a 12" diameter disk 1" from the edge at the least stable position.

Top Load: 125 lb.

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.5-2014 Test No. 4.3:

The unit shall not tip over.

**RESULTS:**

SAMPLE ID	STATIC LOAD	RESULTS
1	125 lb.	Conforming

The submitted sample met the acceptance criteria of the test described above. Refer to the following page for photograph.

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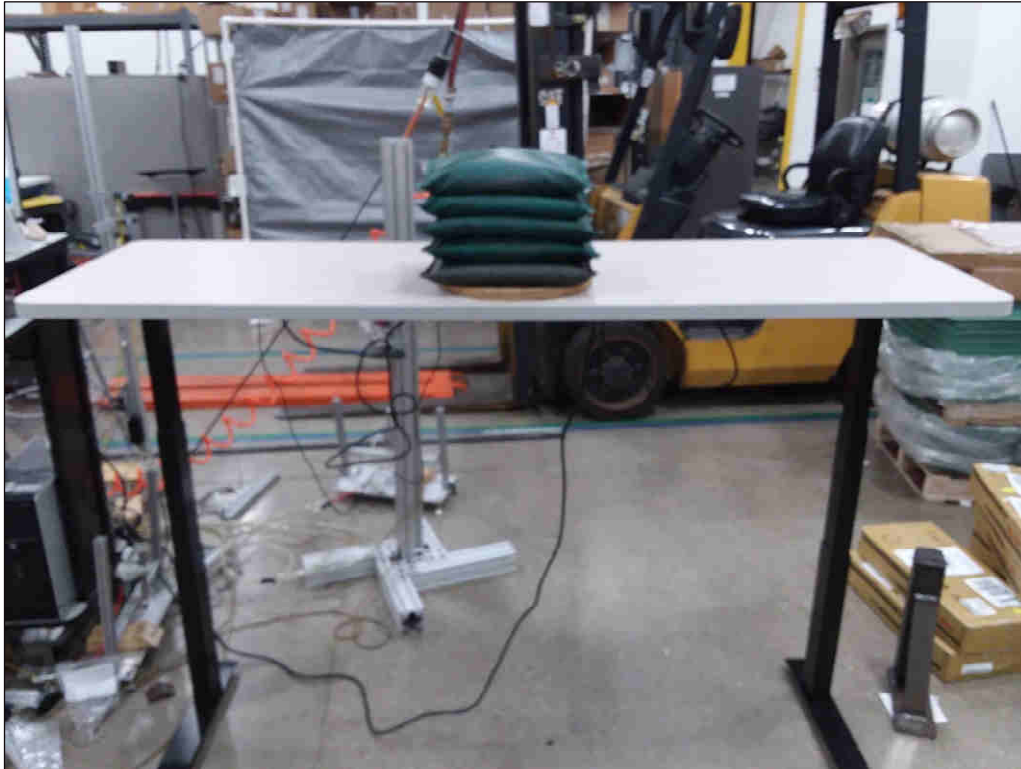
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**Stability Under Vertical Load Test**

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**4.6 FORCE STABILITY TEST FOR TALL DESK/TABLE PRODUCTS:**

Date Received: 11-Aug-2020

Date Tested: 26-Aug-2020

Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Descriptions: SIS Height Adjustable Table

Number of Samples Tested: One (1)

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 4.6:

Test applies to units that can be adjusted to heights greater than 42".

The unit shall be leveled.

Units shall be positioned at a height that places them at their least stable condition.

Apply the force through an 8" diameter disc to all four (4) sides of the unit 54" from the floor or 4" from the top edge until 40 lbf is reached or the product tilts to 10 degrees.

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.5-2014 Test No. 4.6:

The unit shall not tip over.

**RESULTS:**

SAMPLE ID	FORCE / DEGREE TO TIP	RESULTS
1	18 lbf. or 14.5° to tip	Conforming

The submitted sample met the acceptance criteria of the test described above. Refer to the following page for photograph.

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**Force Stability Test for Tall Desk/Table Products**



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### 5.2 – 5.5 UNIT STRENGTH TESTS:

Date Received: 11-Aug-2020  
Date Tested: 26-Aug-2020  
Location Tested: Intertek Kentwood, MI

### DESCRIPTION OF SAMPLES:

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

### TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test Nos. 5.2 – 5.5:

### ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 Test Nos. 5.2 – 5.5:

Functional Load: There shall be no loss of serviceability.

Proof Load: There shall be no major change in the structural integrity.

### RESULTS:

SAMPLE ID	SURFACE TO BE TESTED (CLASS)	WORK SURFACE	RESULTS
1	Surface Size	184 lin. in.	
	<u>Concentrated Loads</u>		
	Functional:	200	Conforming
	Proof:	300	Conforming
	<u>Distributed Loads</u>		
	Functional:	276	Conforming
	Proof:	423	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following pages for photographs.

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**Concentrated Functional Load Test**

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**Concentrated Proof Load Test**

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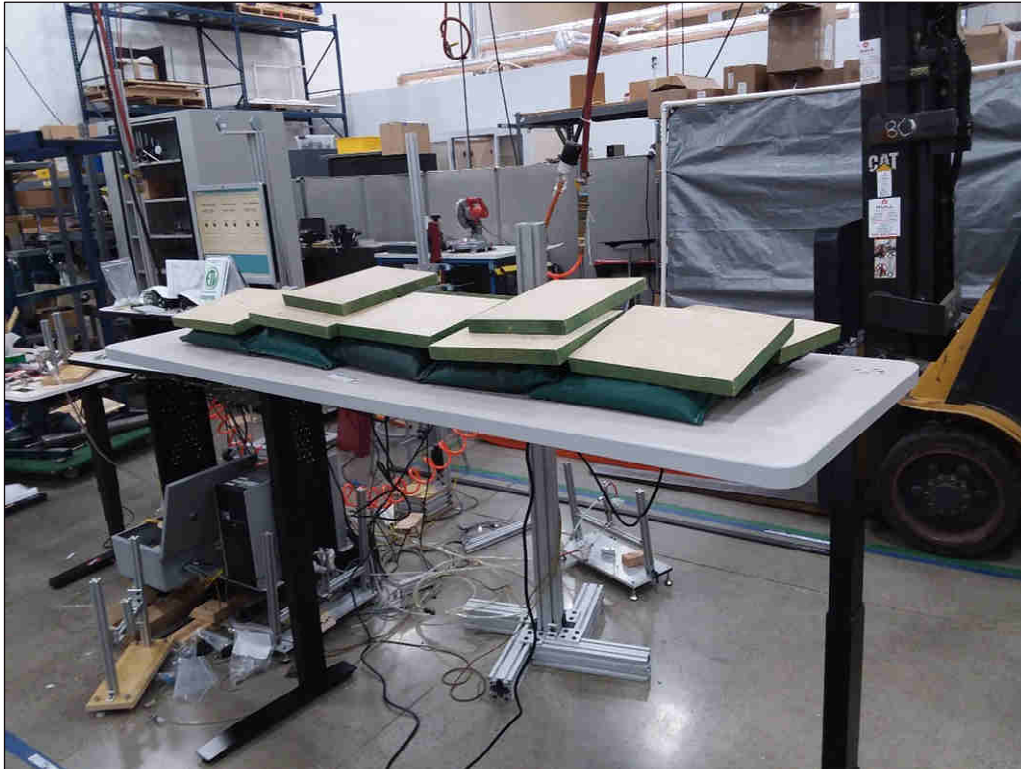
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**Distributed Functional Load Test**

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**Distributed Proof Load Test**

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**6. TOP LOAD EASE CYCLE TEST:**

Date Received: 11-Aug-2020  
Date Tested: 27-Aug-2020 to 28-Aug-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 6:  
Number of Cycles: 10,000  
Load: 200 lb.  
Cycles Per Minute:  $14 \pm 6$   
Load Drawers with: 0.017 lb./cu. in.  
Load Area: 16" Diameter

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.5-2014 Test No. 6:

There shall be no loss of serviceability to the unit. A pull force to overcome anti-rebound or interlock and to fully extend the drawer shall not exceed 11.2 lb.

**RESULTS:**

SAMPLE ID	NUMBER OF CYCLES	RESULTS
1	10,000	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



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Top Load Ease Cycle Test

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**7. DESK/TABLE UNIT DROP TEST:**

Date Received: 11-Aug-2020  
Date Tested: 28-Aug-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 7:

NOTE: Test applies to freestanding Category 1 Desk or Tables that are less than 72" in length. Test does not apply to units with casters or keyboard tables.

Set all adjustable features at midpoint.

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 – 136kg (200-300 lb.)	60 mm (2.4 in.)
>136 kg (300 lb.)	N/A

Unit Weight: 104 lb.

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.5-2014 Test No. 7:  
There shall be no loss of serviceability.

**RESULTS:**

SAMPLE ID	DROP HEIGHT	RESULTS
1	4.7	Conforming

The submitted sample met the acceptance criteria of the test described above. Refer to the following page for photograph.



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**Desk/Table Unit Drop Test**

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### 8. LEG STRENGTH TEST:

Date Received: 11-Aug-2020  
Date Tested: 28-Aug-2020  
Location Tested: Intertek Kentwood, MI

### DESCRIPTION OF SAMPLES:

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

### TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 8:

Unit Weight: 104 lb.

NOTE: Based on the desk or table category, calculate functional and proof loads.

### ACCEPTANCE CRITERIA:

Per ANSI/BIFMA X5.5-2014 test no. 8:

Functional Force: There shall be no loss of serviceability.

Proof Force: There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.

### RESULTS:

SAMPLE ID	SURFACE TO BE TESTED (CLASS)	RESULTS
1	<u>Functional Force</u>	
	Inward on Leg: 100 lbf.	Conforming
	Outward on Leg: 50 lbf.	Conforming
	<u>Proof Force:</u>	
	Inward on Leg: 150 lbf.	Conforming
	Outward on Leg: 75 lbf.	Conforming

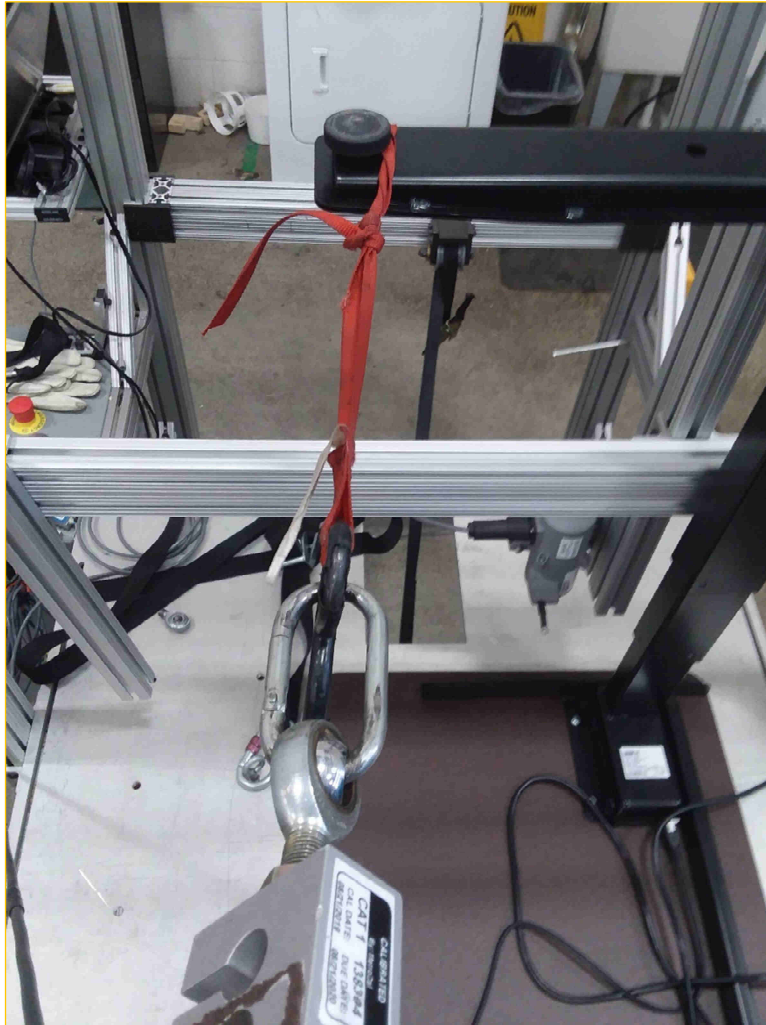
The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.

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**Leg Strength Test**

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### 15. WORK SURFACE VERTICAL ADJUSTMENT TEST:

Date Received: 11-Aug-2020  
Date Tested: 12-Aug-2020 to 25-Aug-2020  
Location Tested: Intertek Kentwood, MI

### DESCRIPTION OF SAMPLES:

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

### TEST PROCEDURE:

Test Method: Per ANSI/BIFMA X5.5-2014 Test No. 15:  
  
Number of Cycles: 1,000 in each quartile.  
Load: 100 lb.  
Cycle Rate: Recommended by manufacturer or six (6) cycles per minute.

### ACCEPTANCE CRITERIA:

Per ANSI/BIFMA 5.5-2014 Test No. 15:  
There shall be no loss of serviceability. For tables with crank driven adjustment mechanisms, the operating force on the handle to adjust the table shall not exceed 11.2 lbf.

### RESULTS:

SAMPLE ID	QUARTILE	RESULTS
1	1	Conforming
	2	Conforming
	3	Conforming
	4	Conforming

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.

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**Work Surface Vertical Adjustment Test**

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**EN 527-2 SECTION: 4 SAFETY REQUIREMENTS**

Date Received: 11-Aug-2020  
Date Tested: 08-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 527-2: Section 4  
Test Probes Used: 7mm Ø, 12mm Ø, 18mm Ø

**ACCEPTANCE CRITERIA**

Per EN 527-2:2016+A1:2019 Office furniture – Worktables Section 4: Safety requirements:

4.1 General:	<p>All parts of the table with which the user comes into contact during intended use, shall be designed so that physical injury and damage are avoided.</p> <p>These requirements are fulfilled when:</p> <ul style="list-style-type: none"><li>a) All accessible edges and corners are free from burrs and rounded or chamfered.</li><li>b) The edges and corners of the top surfaces are chamfered not less than 1mm by 1mm or rounded with a radius of not less than 2mm.</li><li>c) The ends of feet and tubular components are closed or capped.</li></ul> <p>Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.</p> <p>It shall not be possible for any load bearing part of the table to come loose unintentionally.</p> <p>All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.</p>
4.2 Shear and Squeeze Points	<p>There shall be no shear and squeeze points which close to less than 25mm unless they are always less than 7mm created by parts of the table operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.</p> <p>There shall be no shear and squeeze points which close to less than 25mm unless they are always less than 7mm created by forces applied during normal use or created by the user during normal movements and actions, e.g. attempting to move the table.</p>

**RESULTS**

The submitted sample met the acceptance level criteria of the safety requirements described above.

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**EN 1730 SECTION 6.2: HORIZONTAL STATIC LOAD TEST**

Date Received: 11-Aug-2020  
Date Tested: 08-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 1730: Section 6.2  
Per EN 527-2: Section 5.1

**At 950mm**

Load on the tabletop: 50kg  
Specified Force: 450N  
Minimum Specified Force: 300N

**At Maximum Height**

Load on the tabletop: 50kg  
Moment: 285Nm  
Duration of Specified Force: 10 ± 2 Seconds  
Number of Cycles Required: 10 at each Location

**ACCEPTANCE CRITERIA**

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The worktable fulfils its function after removal of the test loads.

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### RESULTS

SAMPLE ID	LOCATION TESTED	TABLE HEIGHT	FORCE ACHIEVED	DESCRIPTION OF RESULTS
1	Left Side	950mm	450N	CONFORMING
1	Left Side	1,227mm	285N	CONFORMING
1	Right Side	950mm	450N	CONFORMING
1	Right Side	1,227mm	285N	CONFORMING
1	Front	950mm	269N	CONFORMING
1	Front	1,227mm	219N	CONFORMING
1	Back	950mm	244N	CONFORMING
1	Back	1,227mm	212N	CONFORMING

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



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Horizontal Static Load Test

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**EN 1730 SECTION 6.3.1 VERTICAL STATIC LOAD ON MAIN SURFACE**

Date Received: 11-Aug-2020  
Date Tested: 08-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 1730: Section 6.3.1  
Per EN 527-2: Section 5.1

Applied Force at 950mm: 1,000N  
Applied Force at 1,227mm: 500N  
Duration of Applied Force: 10 ± 2 Seconds  
Number of Cycles Required: 10 at each location  
Maximum Number of Locations 4

**ACCEPTANCE CRITERIA**

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

**RESULTS**

SAMPLE ID	NUMBER OF LOCATIONS TESTED	DESCRIPTION OF RESULTS
1	3	CONFORMING

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.

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**Vertical Static Load On Main Surface (950mm)**



**Vertical Static Load On Main Surface (1,227mm)**

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**EN 1730 SECTION 6.3.2 ADDITIONAL VERTICAL STATIC LOAD TEST**

Date Received: 11-Aug-2020  
Date Tested: 08-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 1730: Section 6.3.2  
Per EN 527-2: Section 5.1

Applied Force: 1,000N  
Duration of Applied Force: 10 ± 2 Seconds  
Number of Cycles Required: 10 at both locations

Apply two vertical downward forces simultaneously at points positioned on the longitudinal axis of the tabletop, 400mm on either side of the transversal axis.

**ACCEPTANCE CRITERIA**

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

**RESULTS**

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.

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**Additional Vertical Static Load Test**

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**EN 1730 SECTION 6.4.2 HORIZONTAL DURABILITY TEST**

Date Received: 11-Aug-2020  
Date(s) Tested: 08-Sep-2020 to 10-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 1730: Section 6.4.2  
Per EN 527-2: Section 5.1

Applied Mass on TableTop: 50kg  
Applied Horizontal Force: 300N  
Duration of Applied Force:  $2 \pm 1$  Seconds  
Number of Cycles Required: 20,000 for Each Stage  
Number of Test Stages: 2

**ACCEPTANCE CRITERIA**

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

**RESULTS**

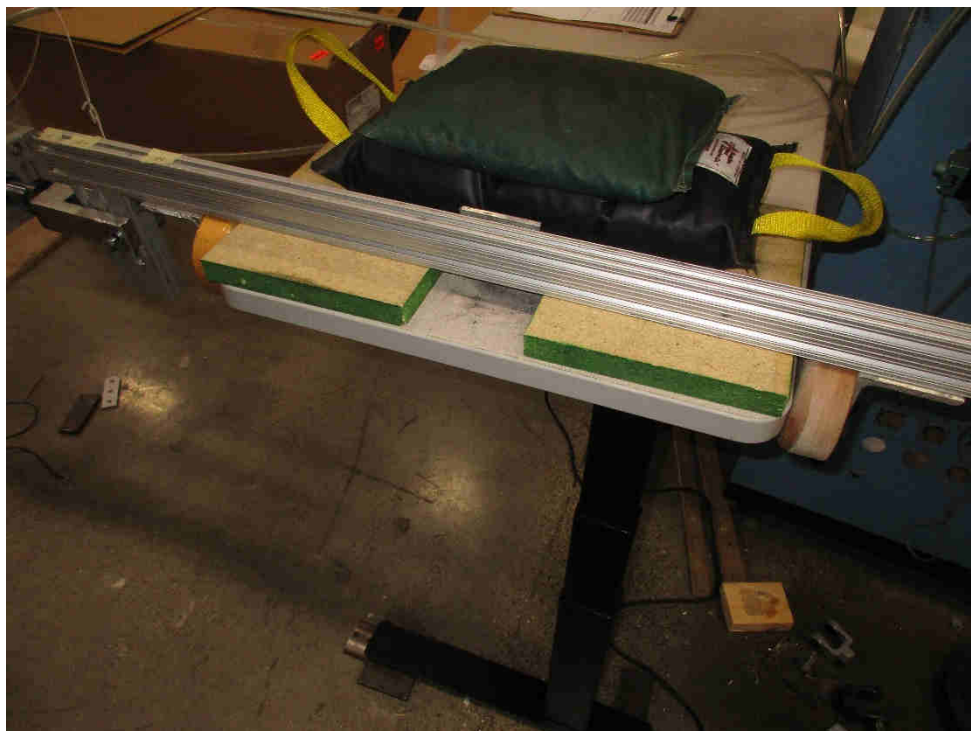
The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.

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**Horizontal Durability Test**



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**EN 1730 SECTION 6.5 VERTICAL DURABILITY TEST**

Date Received: 11-Aug-2020  
Date(s) Tested: 10-Sep-2020 to 11-Sep-2020  
Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES**

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

**TEST PROCEDURE**

Test Method: Per EN 1730: Section 6.5  
Per EN 527-2: Section 5.1

Applied Vertical Force: 400N  
Duration of Applied Force:  $2 \pm 1$  Seconds  
Number of Cycles Required: 10,000

**ACCEPTANCE CRITERIA**

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

**RESULTS**

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



## REPORT FOR INNOVATIVE OFFICE PRODUCTS LLC

Report No.: 104410669GRR-001

Date: 17-Sep-2020

P.O.: 101327

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**Vertical Durability Test**

## EN 1730 SECTION 6.9 DROP TEST

Date Received: 11-Aug-2020  
Date Tested: 14-Sep-2020  
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

## TEST PROCEDURE

Test Method: Per EN 1730: Section 6.9  
Per EN 527-2: Section 5.1

Nominal Drop Height: 100mm  
Number of Drops at Minimum Height: 3  
Number of Drops at Maximum Height: 3  
Determine the vertical force required to lift one end of the unit 10mm  $\pm$  5mm from the floor

VERTICAL FORCE	% OF DROP HEIGHT
0N - <200N	100
200N – 400N	$100 - [70 \times [\text{Vertical Force} - 200] / 200]$
>90 – 136kg (200-300 lb.)	60 mm (2.4 in.)

## ACCEPTANCE CRITERIA

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

## RESULTS

SAMPLE ID	VERTICAL FORCE	DROP HEIGHT	DESCRIPTION OF RESULTS
1	240.40N	86mm	CONFORMING

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



**Drop Test**

## EN 1730 SECTION 7.2 STABILITY UNDER VERTICAL LOAD

Date Received: 11-Aug-2020  
Date Tested: 14-Sep-2020  
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: SIS Height Adjustable Table  
Number of Samples Tested: One (1)

## TEST PROCEDURE

Test Method: Per EN 1730: Section 7.2  
Per EN 527-2: Section 5.1

Applied Vertical Force at 950mm: 750N  
Applied Vertical Force at 1,227mm: 375N  
Duration of Applied Force: 10 ± 2 Seconds

## ACCEPTANCE CRITERIA

Per EN 527-2 Section 5.2:

- 1) There are no fractures of any member, joint or component.
- 2) There are no loosening of joints intended to be rigid.
- 3) The table fulfils its function after removal of the test loads.

## RESULTS

The submitted sample met the acceptance level criteria of the test described above. Refer to the following page for photograph.



**Stability Under Vertical Load**

**SECTION 4**

**REVISIONS MADE TO TEST REPORT**

DATE	REVISION DESCRIPTION	REVISED BY	REVISED BY
17-Sep-2020	Initial release.	James Jantz	