Test Report: 4791224224.1

APPLICANT

Name: **Pineapple Contracts Unlimited**

Address: **Westmead**
Aylesford, ME20 6XJ
United Kingdom

Product: **ANSI/BIFMA X5.4-2020 - Skye chair**

DATE

Sample in:	22/4/2024	**(dd/mm/yyyy)**
Tests start:	22/4/2024	**(dd/mm/yyyy)**
Tests end:	23/5/2024	**(dd/mm/yyyy)**
Report issue:	24/5/2024	**(dd/mm/yyyy)**

OVERALL DIMENSIONS:

Measured:	**Depth:**	785 mm;	**Height:**	805 mm;
	Width:	730 mm;	**Weight:**	22,3 kg;
Nominal	**Depth:**	ND;	**Height:**	ND;
	Width:	ND;	**Weight:**	ND;
Sample number	7047991	**Order number:** 15205364		

REFERENCE STANDARD

ANSI/BIFMA X5.4:2020 Public and Lounge Seating.
NOTE: clauses considered as not applicable to the product are not listed in this report.
Example of products covered by the standard: common/shared spaces such as waiting, reception, visitor seating in patient rooms*, restaurant/dining/cafeteria settings and other gathering areas.**

Sample defects before the test: NO VISIBLE DEFECTS
Tests have been performed at a temperature of 21 ± 6 °C
The tests have been performed on 1 sample as requested by the customer
The sample is classified as single seat of class A (with arm(s) and with backrest)

Technician
Rodolfo Sala

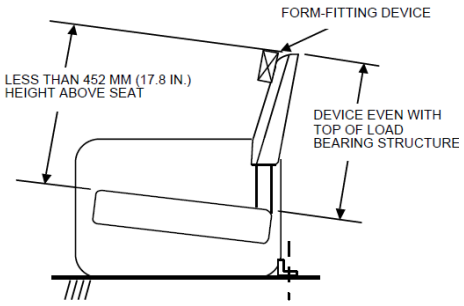
Laboratory Manager
Matteo Longoni

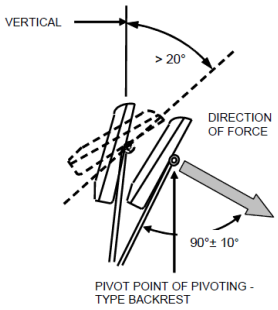
Note: any copy, even partial, of this report, and any change or alteration to it are strictly forbidden.
The test results listed in this report are relevant only for the tested sample. Sampling performed by the customer.

Seating properties		
Length of the seat [mm]	**Number of seating positions (nearest whole number to length divided by 771)**	**Single seat length (mm)**
530	1	530

Note:

ANSI/BIFMA X5.4:2020 Par. 5 Backrest Strength Test - Horizontal - Static





Test has been performed pushing the backrest backwards
Backrest height: 400 mm
Backrest inclination: 72.7°
Loading pad height measured from the seat: Top of the backrest

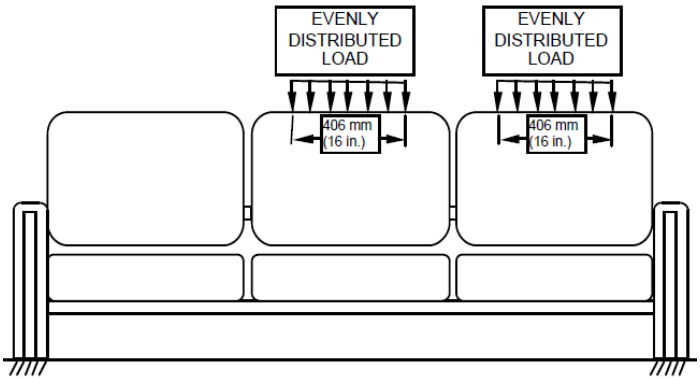
Functional Load			
Backrest load (N)	**Time of application (sec)**	**Cycles**	**Rating**
667	60	1	P

Note: Test performed on sample as 5th test on this sample.

Proof Load			
Backrest load (N)	**Time of application (sec)**	**Cycles**	**Rating**
1.112	10	1	P

Note: Test performed on sample as 6th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 6 Backrest Strength Test - Vertical - Static



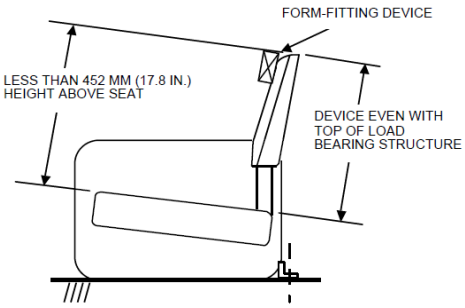
Functional Load			
Backrest load (N)	**Time of application (sec)**	**Cycles**	**Rating**
890	60	1	P

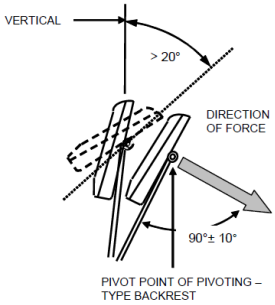
Note:; Test performed on sample as 7th test on this sample.

Proof Load			
Backrest load (N)	**Time of application (sec)**	**Cycles**	**Rating**
1.334	10	1	P

Note:; Test performed on sample as 8th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 7 Backrest Durability Test - Horizontal - Cyclic



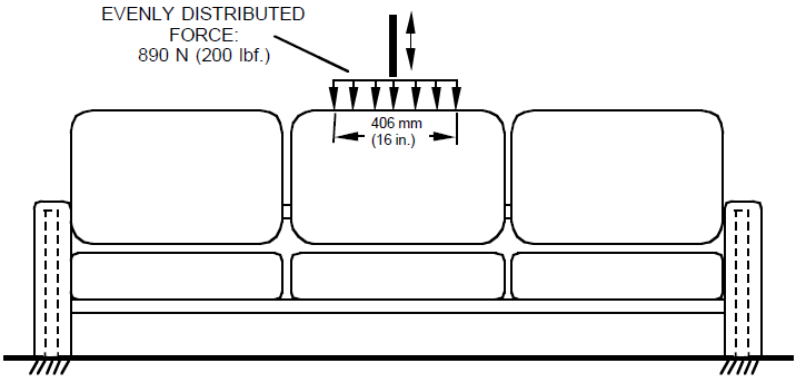


Test has been performed pushing the backrest backwards
Backrest height: 400 mm
Backrest inclination: 72.7°
Loading pad height measured from the seat: Top of the backrest

Seat load (kg)	Backrest load(N)	Frequency (cycles per minute)	Cycles	Rating
109	334	10	120.000	P

Note: Test performed on sample as 4th test on this sample.

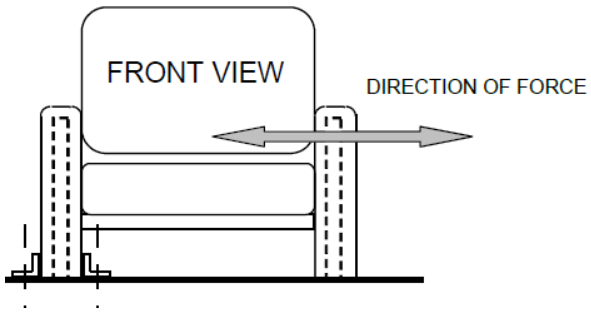
ANSI/BIFMA X5.4:2020 Par. 8 Backrest Durability Test - Vertical - Cyclic

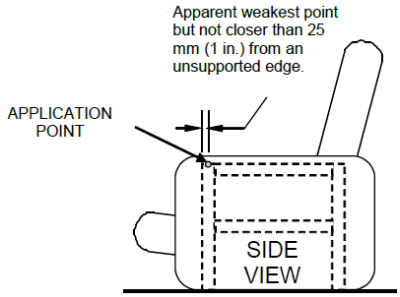


Backrest load (N)	Frequency (cycles per minute)	Cycles	Rating
890	10	10.000	P

Note: Test performed on sample as 3rd test on this sample.

ANSI/BIFMA X5.4:2020 Par. 9 Arm Strength Test - Horizontal – Static





Distance from the backrest to loading point on the arm: 700 mm
Functional and proof load tests have been performed on the same sample.

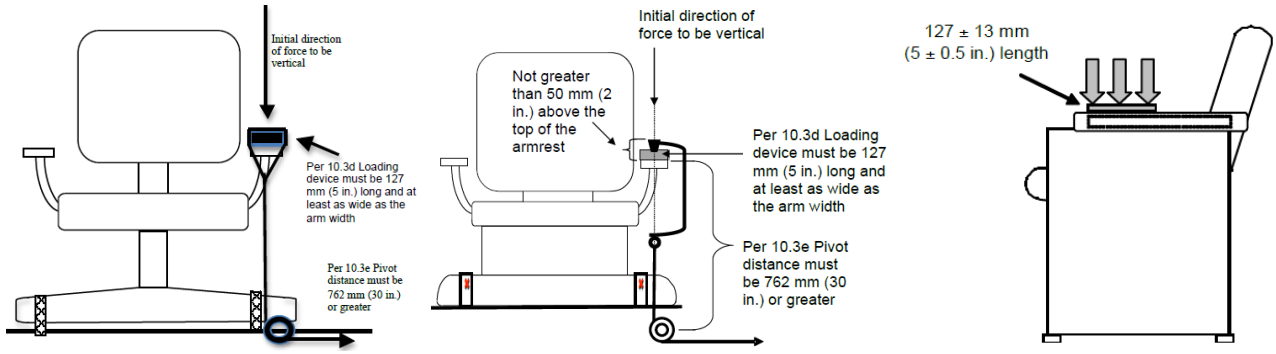
Functional Load					
Distance between armrests (mm)	**Applied force (N)**	**Direction**	**Time of application (sec)**	**Cycles**	**Rating**
< 889	445	Inward	60	1	P
	445	Outward	60	1	P
> 889	592	Inward	60	1	NA
	592	Outward	60	1	NA

Note: Test performed on sample as 9th test on this sample.
Distance between armrests: 570 mm.

Proof Load					
Distance between armrests (mm)	**Applied force (N)**	**Direction**	**Time of application (sec)**	**Cycles**	**Rating**
< 889	667	Inward	10	1	P
	667	Outward	10	1	P
> 889	890	Inward	10	1	NA
	890	Outward	10	1	NA

Note: Test performed on sample as 10th test on this sample.
The forces inward and outward have been performed on the same armrest.
Distance between armrests: 570 mm.

ANSI/BIFMA X5.4:2020 Par. 10 Arm Strength Test - Vertical - Static



Distance from the backrest to the loading point: 700 mm
Functional and proof load tests have been performed on the same sample.

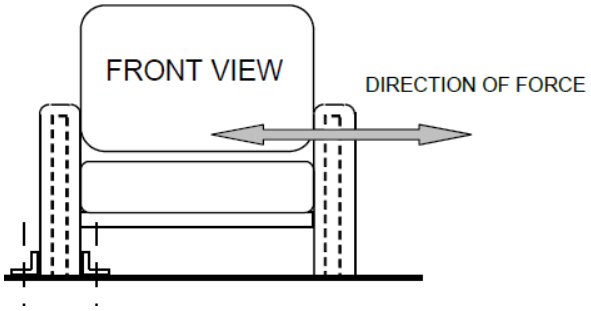
Functional Load				
Armrest width (mm)	**Applied force (N)**	**Time of application (sec)**	**Cycles**	**Rating**
≤ 75	750	60	1	P
> 75	890	60	1	NA

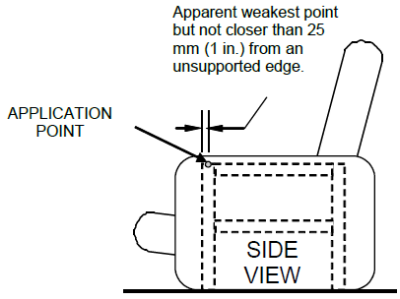
Note:. Test performed on sample as 11th test on this sample.
Armrest width: 60 mm.

Proof Load				
Armrest width (mm)	**Applied force (N)**	**Time of application (sec)**	**Cycles**	**Rating**
≤ 75	1.125	10	1	P
> 75	1.335	10	1	NA

Note: Test performed on sample as 12th test on this sample.
Armrest width: 60 mm.

ANSI/BIFMA X5.4:2020 Par. 11 Arm Durability Test for Multiple Seat Units - Horizontal - Cyclic

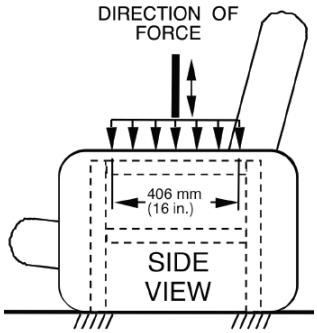


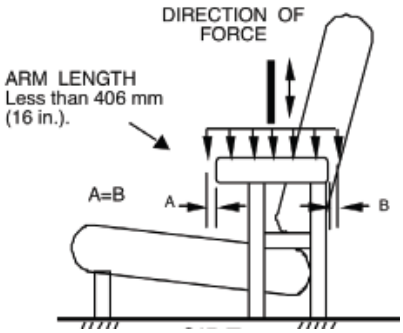


Applied force (N)	Frequency (cycles per minute)	Cycles	Rating
445	10 to 30	50.000	NA

Note: not a multiple seating unit.

ANSI/BIFMA X5.4:2020 Par. 12 Arm Durability Test for Multiple Seating Units - Vertical - Cyclic

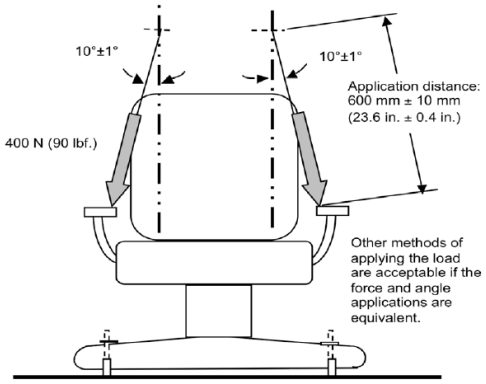




Applied force (N)	Frequency (cycles per minute)	Cycles	Rating
667	10 to 30	10.000	NA

Note: not a multiple seating unit.

ANSI/BIFMA X5.4:2020 Par. 13 Arm Durability Test for Single Seat Units - Angular – Cyclic

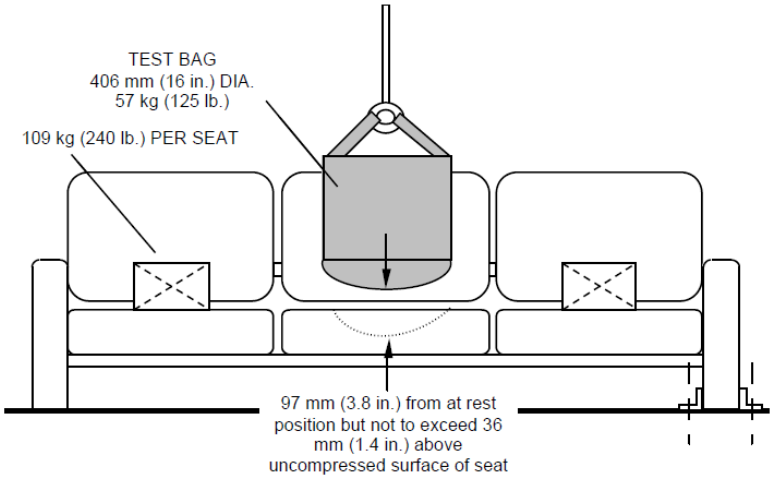


Distance between the inner edge of the armrest and the loading point: 25 mm
Angle inclination of force: 10 °

Load (N)	Cycles	Frequency (cycles per minute)	Rating
400	60.000	10	P

Note: Test performed on sample as 1st test on this sample.

ANSI/BIFMA X5.4:2020 Par. 14 Seating Durability Tests - Cyclic



Minimum thickness of cushiony materials of seat: >50 mm
Thickness of additional foam: 0 mm
Distance between the bag and the backrest: 13 mm
Vertical distance between the bottom of the bag in its "at rest" position and the uncompressed surface on the seat: 36 mm

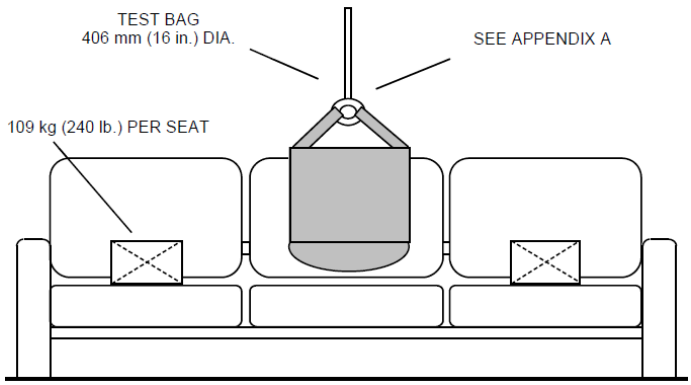
Weight of bag (kg)	Height of fall from "at rest" position (mm)	Cycles	Frequency (cycles / minute)	Rating
57	36	100.000	10	P

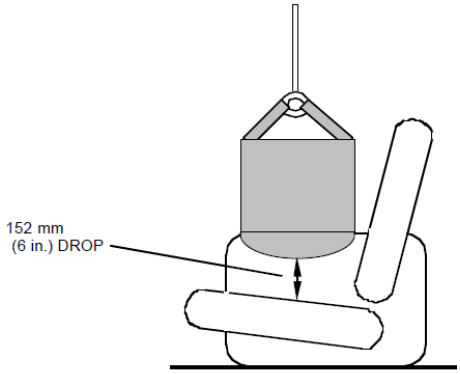
Note: Test performed on sample as 2nd test on this sample.

Weight of bag (kg)	Height of fall from "at rest" position (mm)	Cycles	Frequency (cycles / minute)	Rating
57	36	100.000	10	NA

Note: not a multiple seating unit.

ANSI/BIFMA X5.4:2020 Par. 15 Drop Test - Dynamic





Functional load					
Applied load to sitting places not under tested (kg)	**Number of sitting places tested**	**Drop height above uncompressed seat (mm)**	**Impact mass (kg)**	**Cycles**	**Rating**
102	-	152	102	1	P

Note: Test performed on sample as 13th test on this sample. The test has been performed on each sitting position in sequence.

Proof load					
Applied load to sitting places not under tested (kg)	**Number of sitting places tested**	**Drop height above uncompressed seat (mm)**	**Impact mass (kg)**	**Cycles**	**Rating**
136	-	152	136	1	P

Note: Test performed on sample as 14th test on this sample. The test has been performed on each sitting position in sequence.

ANSI/BIFMA X5.4:2020 Par. 16 Leg Strength Test - Front and Side

This test shall be performed on all units without pedestal bases (e.g. with legs or feet)

ANSI/BIFMA X5.4:2020 Par. 16.3 Front Load Test

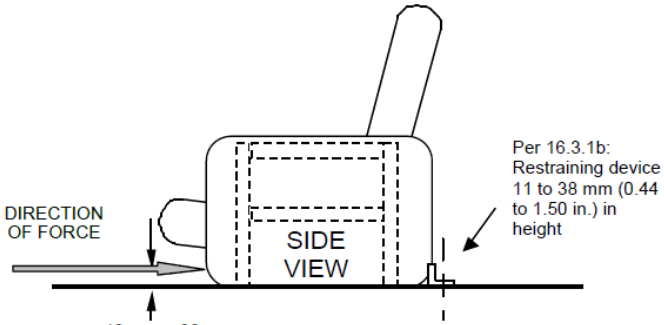


Figure 16a Front Load

Load is applied to inwards and parallel to the axis from the front and back of the seat.
Load is applied one time on each front leg.
Height load pad (measured from floor): 13 mm
Distance between the load pad from the outer edge of the leg: < 25mm

Functional load			
Horizontal force (N)	**Time of application (sec)**	**Cycles**	**Rating**
334	60	1	P

Note: Test performed on sample as 15th test on this sample.

Proof load			
Horizontal force (N)	**Time of application (sec)**	**Cycles**	**Rating**
667	60	1	P

Note: Test performed on sample as 16th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 16.4 Side Load Test

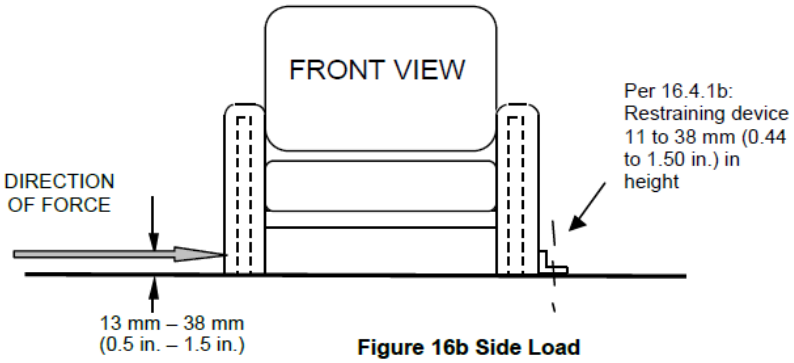


Figure 16b Side Load

Load is applied to inwards and parallel to the axis from the front and back of the seat.
Load is applied one time on each front leg.
Height load pad (measured from floor): 13 mm
Distance between the load pad from the outer edge of the leg: < 25mm

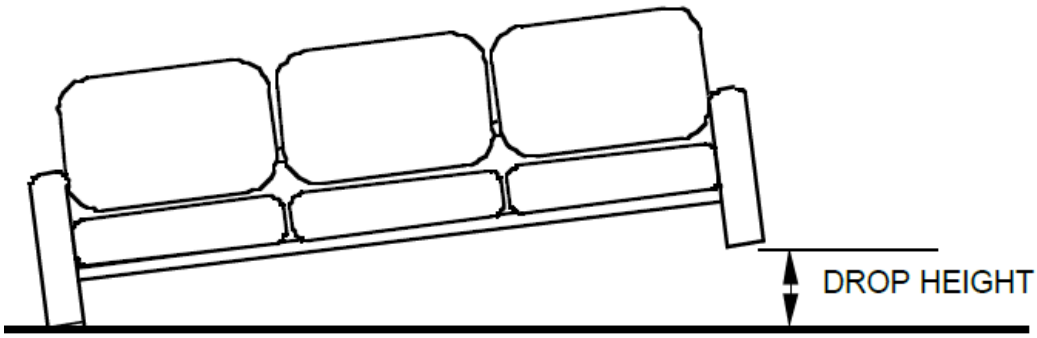
Functional load			
Horizontal force (N)	**Time of application (sec)**	**Cycles**	**Rating**
334	60	1	P

Note: Test performed on sample as 17th test on this sample.

Proof load			
Horizontal force (N)	**Time of application (sec)**	**Cycles**	**Rating**
667 N	60	1	P

Note: Test performed on sample as 18th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 17 Unit Drop Test - Dynamic

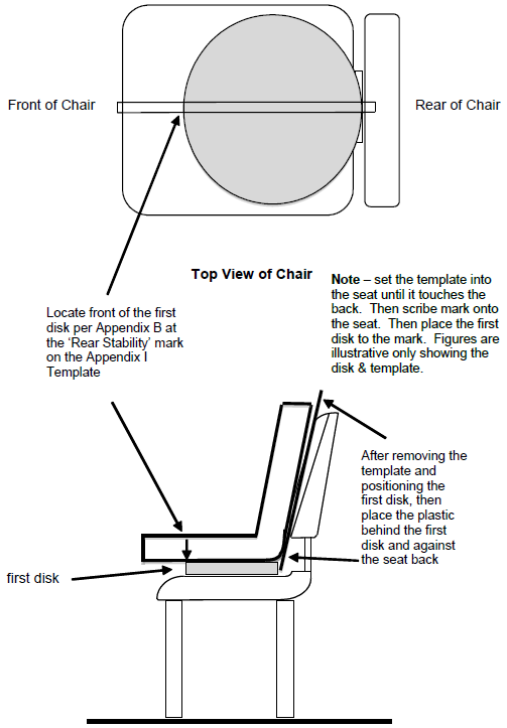


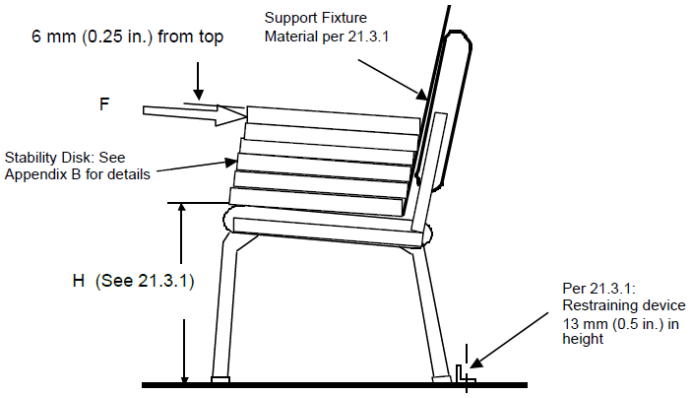
Sample weight (kg)	Drop height (mm)	Cycles	Side	Rating
< 45	180	1	Left	P
		1	Right	P
45 - 90	120	1	Left	NA
		1	Right	NA
> 90 – 136	60	1	Left	NA
		1	Right	NA
> 136	Non applicabile	-	-	NA

Note: Test performed on both sides of the sample. Test performed on sample as 19th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 21 Stability Tests

ANSI/BIFMA X5.4:2020 Par. 21.3 Rear Stability for Non-tilting Units



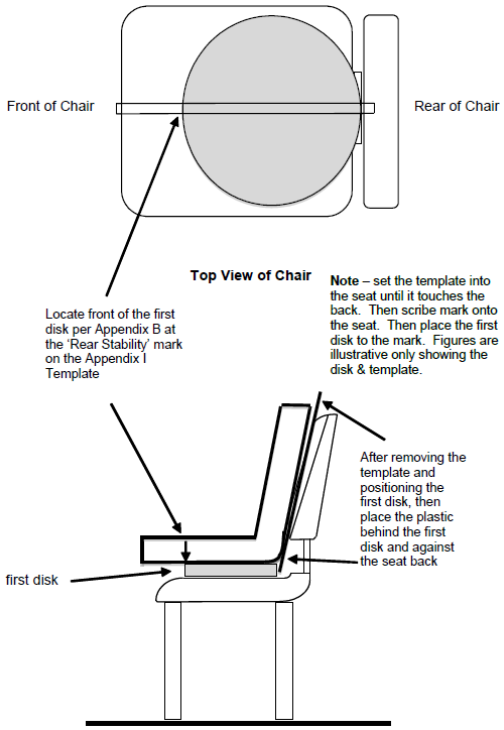


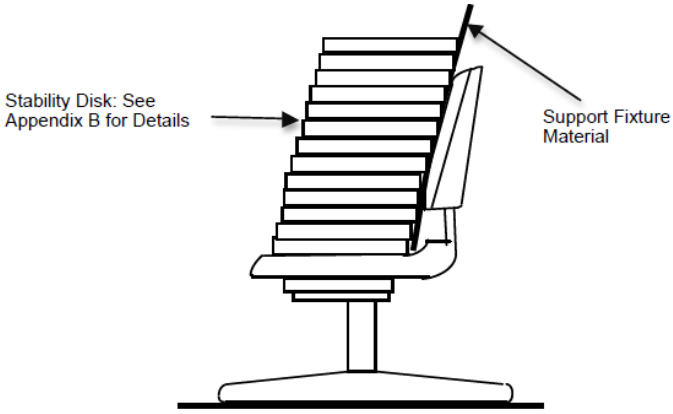
Force has been applied : On top of disks

Applied discs on seat	Horizontal force (N)	Loading point	Rating
6	163	On top of disks	P

Note: The horizontal force was determined by the following formula: $F = 0{,}1964\ (1195 - H)$, when H found is: 430 mm.
Test performed on sample as 20th test on this sample.

ANSI/BIFMA X5.4:2020 Par. 21.4 Rear Stability for Tilting Units

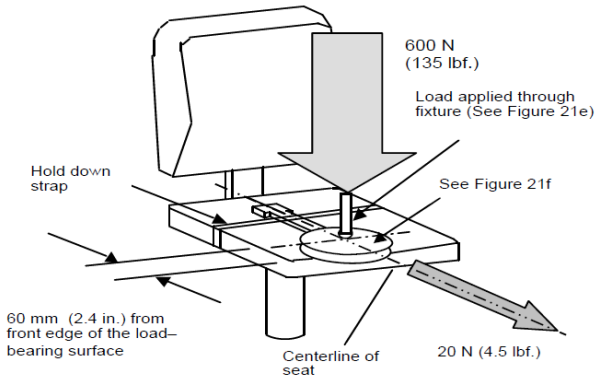


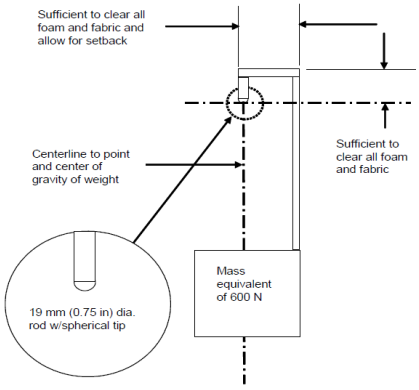


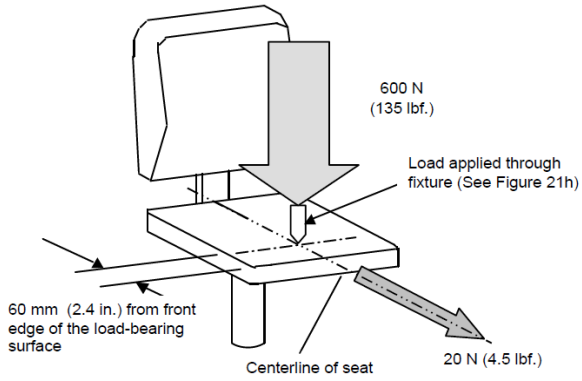
Applied discs on seat	Rating
13	NA

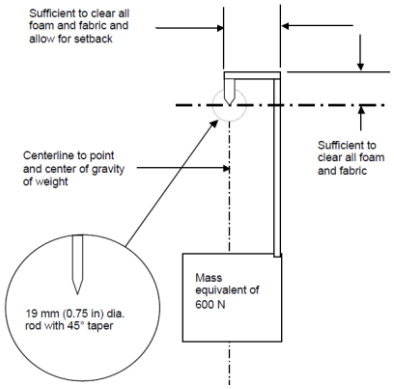
Note: Non tilting units.

ANSI/BIFMA X5.4:2020 Par. 21.5 Front Stability for Units Less than 36.3 kg (80 lbs.)





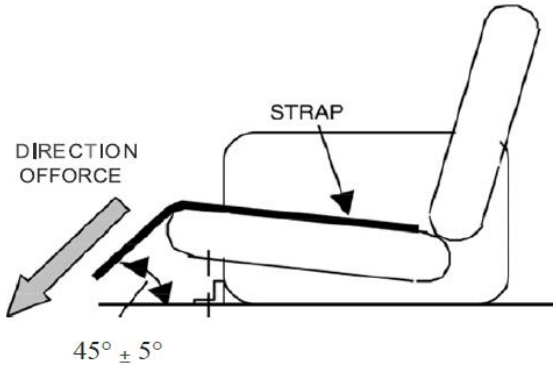




Load seat (kg)	Loading point (mm)	Horizontal force (N)	Rating
60	60 from the front center edge of the loadbearing surface of the chair	20	P

Note: Test performed on sample as 21th test on this sample.
Weight: 22,3 kg / 49.16 lbs;

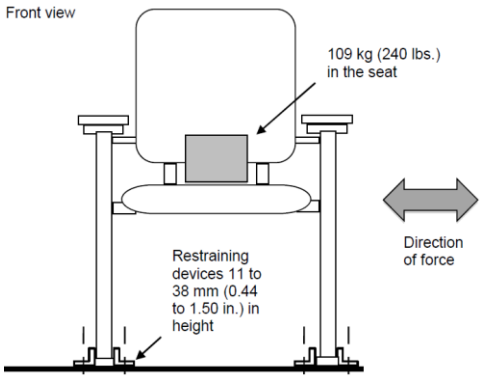
ANSI/BIFMA X5.4:2020 Par. 21.6 Front Stability for Units Greater Than or Equal to 36.3 kg (80 lbs.)



Applied force - Downward (N)	Rating
-	NA

Note: Weight: 22,3 kg / 49.16 lbs;

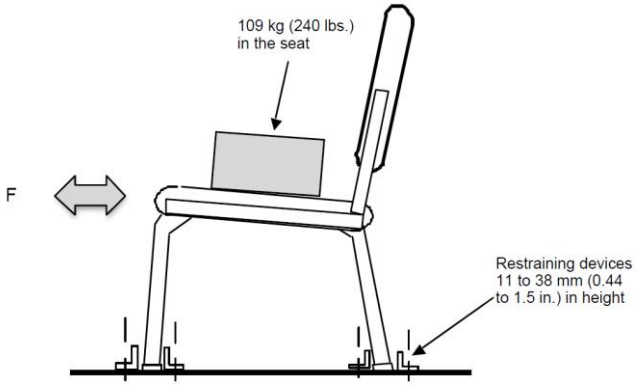
ANSI/BIFMA X5.4:2020 Par. 24 Structural Durability Test – Side-to-Side - Cyclic



Load (kg)	Horizontal force (N)	Cycles	Frequency (cycles per minute)	Rating
109	334	25.000	10	P

Note: Test performed on sample as 22th test on this sample.

ANSI/BIFMA X5.4:2020 Appendix M - Structural Durability Test – Front-to-Back - Cyclic (Informative)



Load (kg)	Horizontal force (N)	Cycles	Frequency (cycles per minute)	Rating
109	334	25.000	10 to 20	NA

Note: Weight: 22,3 kg / 49.16 lbs (Greater than 10 kg);

Key:

P = PASS, the sample MEETS the standard requirement.
F = FAIL, the sample DOES NOT MEET the standard requirement.
NA = NON APPLICABILE, the requirement/test IS NOT APPLICABLE to the sample.
NR = NOT REQUESTED, On Customer request the test is NOT PERFORMED.
NP = General note (see details).
ND = NOT DECLARED.
// = The rating of test CANNOT BE EXPRESSED, see details in test report

END OF TEST REPORT