



Test Report: 4790866020.1 Rev.1

This report cancels and replaces the previous N° 4790866020.1 issued on 3/11/2023

APPLICANT

Name: Pineapple Contracts Unlimited
Address: Westmead
Aylesford, ME20 6XJ
United Kingdom



Product: ANSI/BIFMA X5.4 - SNUG PLUS
Plus chair

DATE

Sample in:	5/10/2023	(dd/mm/yyyy)
Tests start:	5/10/2023	(dd/mm/yyyy)
Tests end:	2/11/2023	(dd/mm/yyyy)
Report issue:	8/2/2024	(dd/mm/yyyy)

OVERALL DIMENSIONS:

Measured:	Depth:	1000 mm;	Height:	920 mm;
	Width:	900 mm;	Weight:	38,9 kg;
Nominal	Depth:	ND;	Height:	ND;
	Width:	ND;	Weight:	ND;
Sample number	6112902	Order number: 14817799		

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: Style C - without arms and with backrest

Technician
Rodolfo Sala

Laboratory Manager
Matteo Longoni

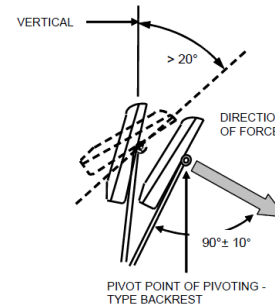
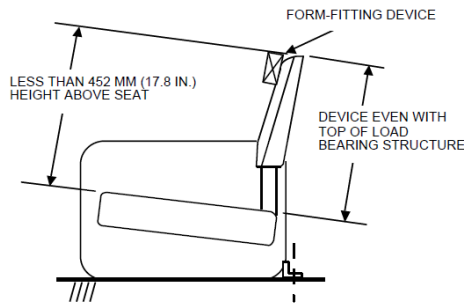
*Note: any copy, even partial, of this report, and any change or alteration to it are strictly forbidden.
The test results listed in this report are relevant only for the tested sample. Sampling performed by the customer.*

Seating properties		
Length of the seat [mm]	Number of seating positions (nearest whole number to length divided by 771)	Single seat length (mm)
900	1	900

Note:

Tested backrest is of PIVOT type: No

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



Test has been performed pushing the backrest backwards

Backrest height: 620 mm

Loading pad height measured from the seat: 406 mm

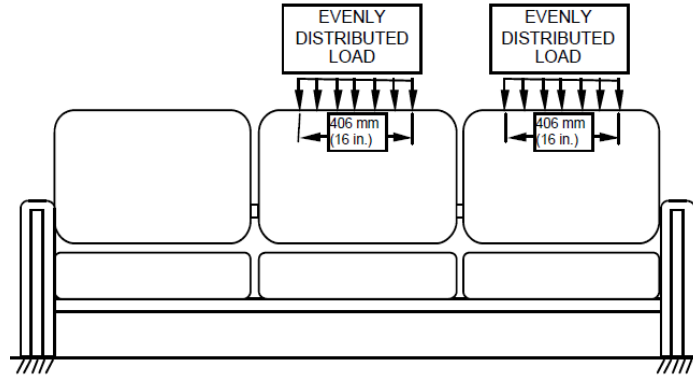
Functional Load			
Backrest load (N)	Time of application (sec)	Cycles	Rating
667	60	1	P

Note: Test performed on sample as 1st test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

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

Note: Test performed on sample as 2nd test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

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 3rd test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

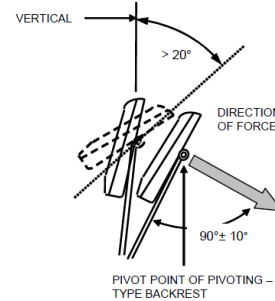
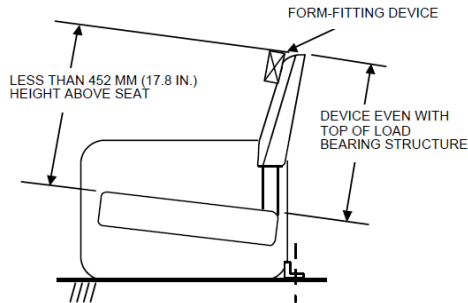
By applying a vertical force on the backrest greater than 300N the sample tends to tip backwards if not balanced with a load on the seat (a seated user).

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

Note; Test performed on sample as 4th test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

By applying a vertical force on the backrest greater than 300N the sample tends to tip backwards if not balanced with a load on the seat (a seated user).

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



Test has been performed pushing the backrest backwards

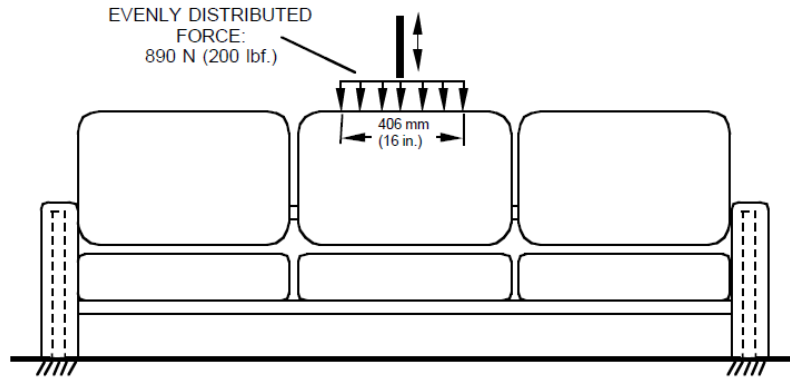
Backrest height: 620 mm

Loading pad height measured from the seat: 406 mm

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

Note: Test performed on sample as 5th test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

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

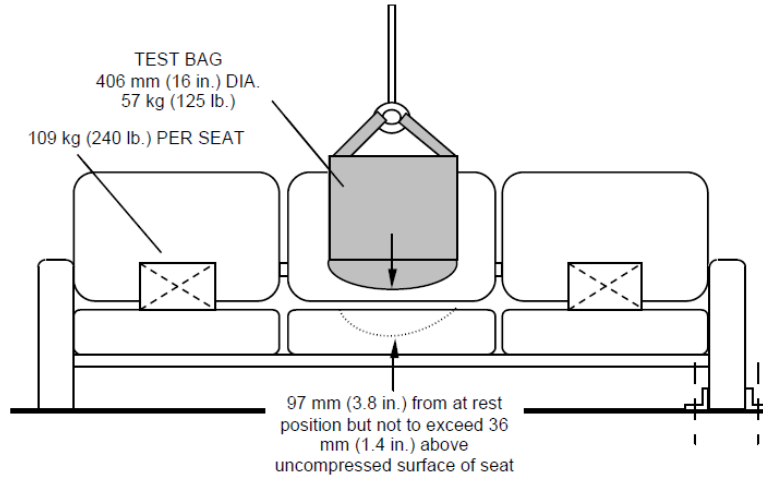


Backrest load (N)	Frequency (cycles per minute)	Cycles	Rating
890	10	10.000	P

Note: Test performed on sample as 6th test on this sample. The test has been performed on two backrest positions (2 positions). The test has been performed simultaneously since the backrest are parallel.

By applying a vertical force on the backrest greater than 300N the sample tends to tip backwards if not balanced with a load on the seat (a seated user).

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 (IFD al 25% di 200 N ± 22 N)

Distance between the bag and the backrest: 10 mm

Vertical distance between the bottom of the bag in its “at rest” position and the uncompressed surface on the seat: 36 mm (The free fall shall begin after lifting the test bag 97 mm (3.8 in.) above its “at rest” position, but not to exceed 36 mm (1.4 in.) above the uncompressed surface on the seat - as measured at the center of the seat)

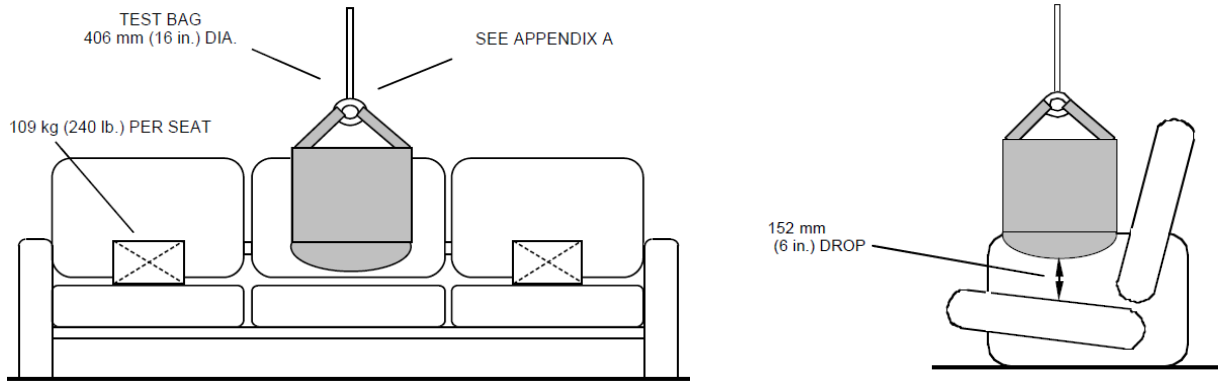
Weight of bag (kg)	Height of fall from “at rest” position (mm)	Cycles	Frequency (cycles / minute)	Rating
57	36	100.000	10	P

Note: Test performed on sample as 7th 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	P

Note: Test performed on sample as 8th test on this sample. The test was repeated since the sample is 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	2	152	102	1	P

Note: Test performed on sample as 9th 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	2	152	136	1	P

Note: Test performed on sample as 10th 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

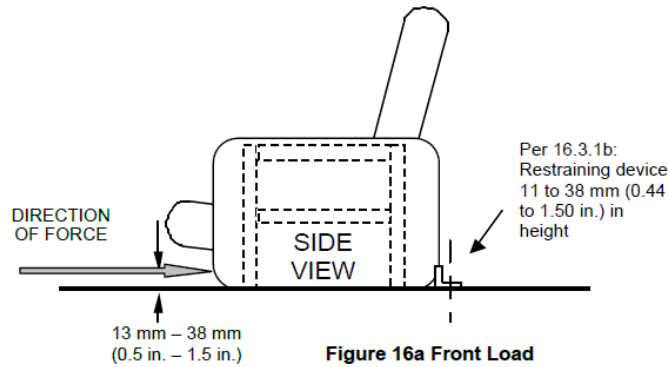


Figure 16a Front Load

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

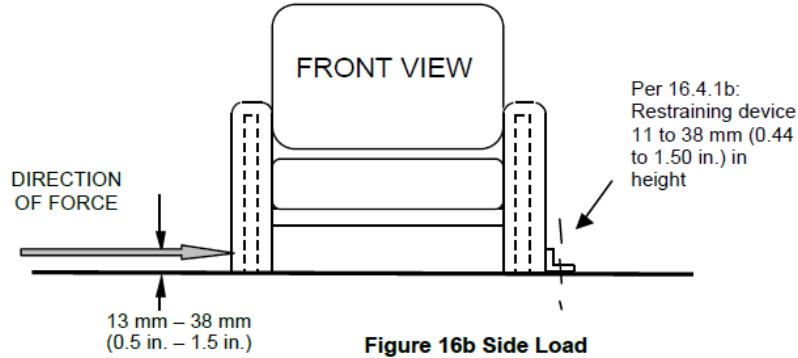
Functional load			
Horizontal force (N)	Time of application (sec)	Cycles	Rating
334	60	1	P

Note: sample with feet; Test performed on sample as 11th test on this sample.

Proof load			
Horizontal force (N)	Time of application (sec)	Cycles	Rating
503	60	1	P

Note: sample with feet; Test performed on sample as 12th test on this sample.

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



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 13th test on this sample.

Proof load			
Horizontal force (N)	Time of application (sec)	Cycles	Rating
503	60	1	P

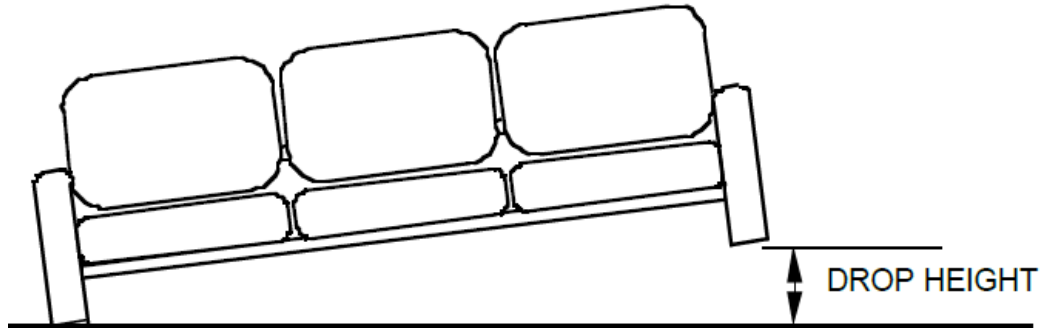
Note: Test performed on sample as 14th test on this sample.



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

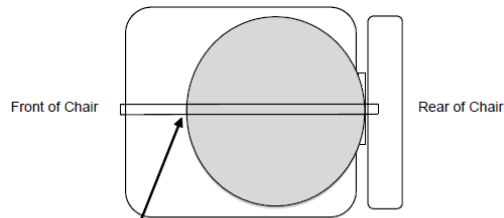


Sample weight (kg)	Drop height (mm)	Cycles	Side	Rating
< 45	180	1	Left	P
		1	Right	P
45 - 90	120	1	Left	NA
		1	Right	NA
> 90 – 136	60	1	Left	NA
		1	Right	NA
> 136	Non applicabile	-	-	NA

Note: Test performed on both sides of the sample. Test performed on sample as 15th test on this sample.

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

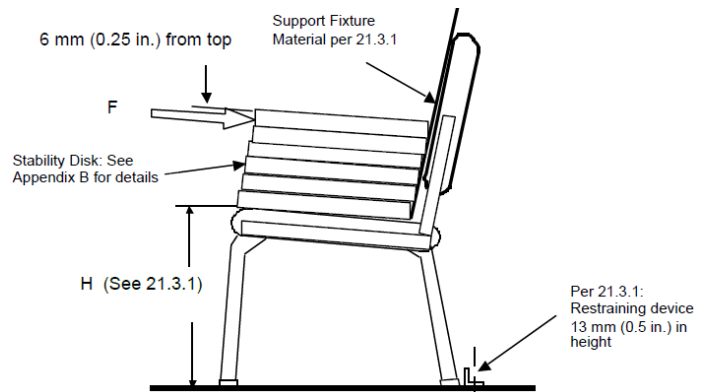
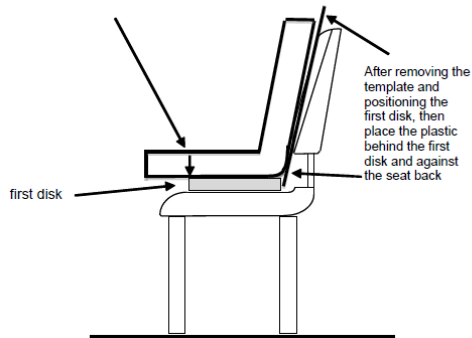
ANSI/BIFMA X5.4:2020 Par. 21.3 Rear Stability for Non-tilting Units



Top View of Chair

Locate front of the first disk per Appendix B at the 'Rear Stability' mark on the Appendix I Template

Note – set the template into the seat until it touches the back. Then scribe mark onto the seat. Then place the first disk to the mark. Figures are illustrative only showing the disk & template.

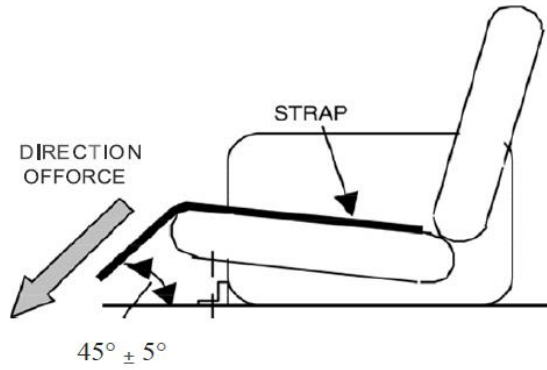


Force has been applied : On top of disks

Applied discs on seat	Horizontal force (N)	Loading point	Rating
6	154	On top of disks	P

Note: The horizontal force was determined by the following formula: $F = 0,1964 (1195 - H)$, when H found is: 410 mm. Test performed on sample as 16th test on this sample.

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

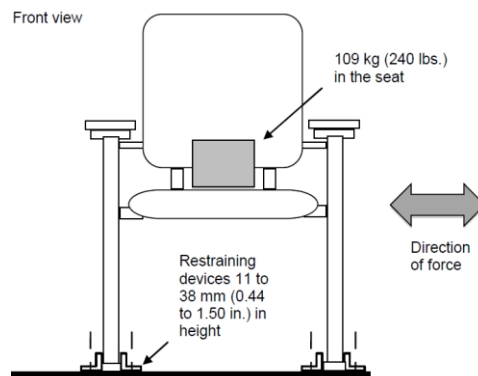


Width of the belt used for the test: 75 mm

Applied force - Downward (N)	Rating
153	P

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

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



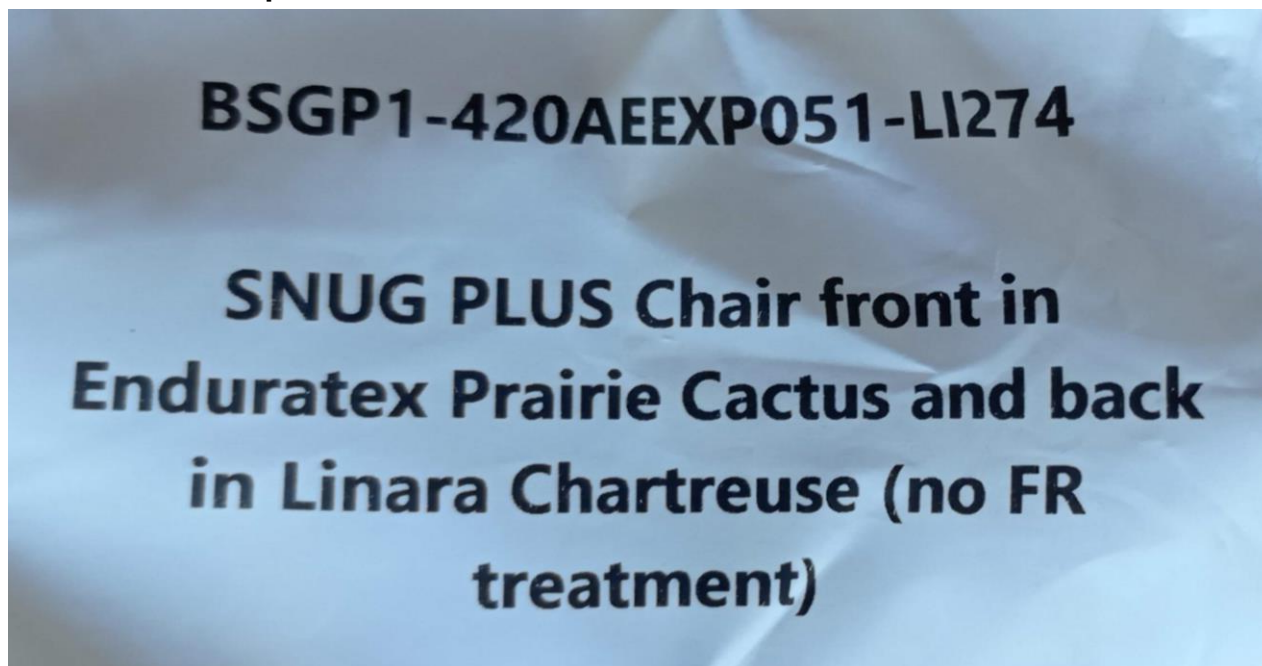
Load (kg)	Horizontal force (N)	Cycles	Frequency (cycles per minute)	Rating
109	334	25.000	10	P

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



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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