

TEST REPORT: 4790866023.1

APPLICANT

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



ANSI/BIFMA X5.4 - SIGMA Tub **Product:** Chair

DATE	
Sample in:	
Tests start:	

Sample in:	16/10/2023
Tests start:	16/10/2023
Tests end:	28/11/2023
Report issue:	29/11/2023

(dd/mm/yyyy) (dd/mm/yyyy) (dd/mm/yyyy)

OVERALL DIMENSIONS:

Measured:	Depth:	770 mm;	Height:	790 mm;
	Width:	760 mm;	Weight:	48.5 kg;
Nominal	Depth:	ND;	Height:	ND;
	Width:	ND;	Weight:	ND;
Sample number	6112758	Order number: 14817801		

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 A - with arms and with backrests

Technician **Rodolfo Sala** Laboratory Manager Matteo Longoni

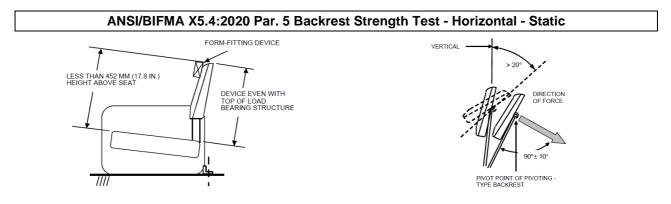


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Seating properties		
Length of the seat [mm]	Number of seating positions (nearest whole number to length divided by 771)	Single seat length (mm)
500*	1	500*

Note: *minimum width.

Tested backrest is of PIVOT type: No



Test has been performed pushing the backrest backwards Backrest height: 425 mm Loading pad height measured from the seat: Top of the backrest

Functional Load				
Backrest load (N) Time of application (sec) Cycles Ratin				
667	60	1	Р	

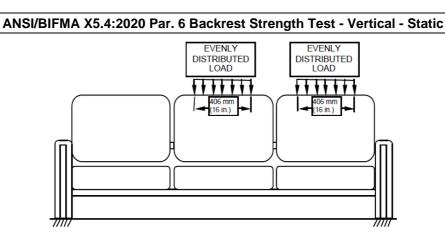
Note: Test performed on sample as 1st test on this sample.

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

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



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

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

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

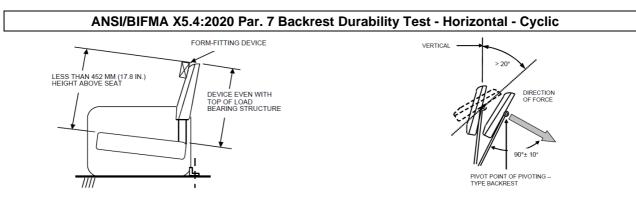
Note:; Test performed on sample as 4th test on this sample.



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Test has been performed pushing the backrest backwards Backrest height: 425 mm

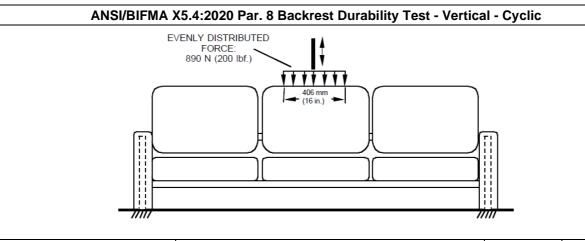
Loading pad height measured from the seat: Top of the backrest

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

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



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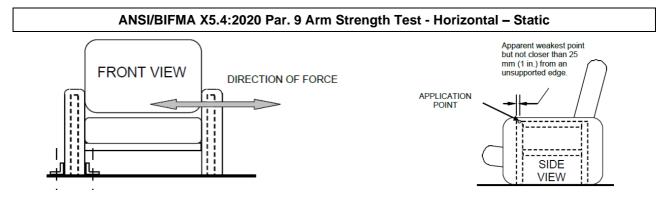


Backrest load (N)	Frequency (cycles per minute)	Frequency (cycles per minute) Cycles	
890	10	10.000	Р

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



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Distance from the backrest to loading point on the arm: 500 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	Р	
	445	Outward	60	1	Р	
	592	Inward	60	1	NA	
> 889	592	Outward	60	1	NA	

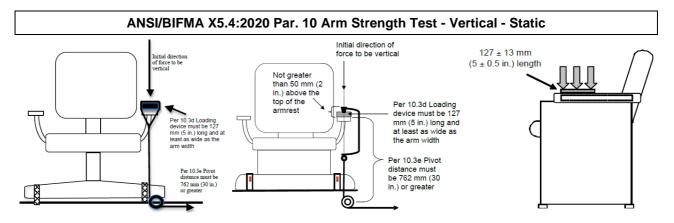
Note: Test performed on sample as 7th test on this sample.

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

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



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Distance from the backrest to the loading point: 500 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 Rat				
≤ 75	750	60	1	Р
> 75	890	60	1	NA

Note: armrest width is 75 mm (=75mm)

Test performed on sample as 9th test on this sample.

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

Note: armrest width is 75 mm (=75mm)

Test performed on sample as 10th test on this sample.

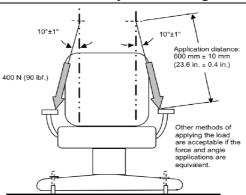


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ANSI/BIFMA X5.4:2020 Par. 13 Arm Durability Test for Single Seat Units - Angular – Cyclic



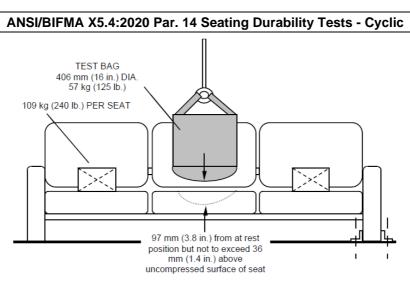
Distance between the inner edge of the armrest and the loading point: < 25 mm **Angle inclination of force:** 10

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

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



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Minimum thickness of cushiony materials of seat: >50 mm Thickness of additional foam: 0 mm (IFD al 25% di 200 N \pm 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	Р

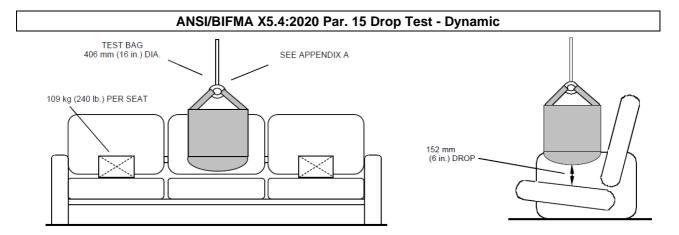
Note: Test performed on sample as 12th test on this sample.



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

Note: Test performed on sample as 13th test on this sample.

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	Р

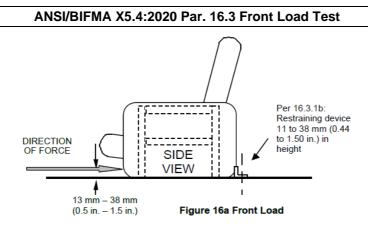
Note: Test performed on sample as 14th test on this sample.



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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)



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

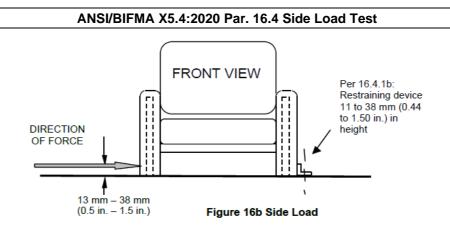
Note: Test performed on sample as 18th test on this sample.

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

Note: Test performed on sample as 19th test on this sample.



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

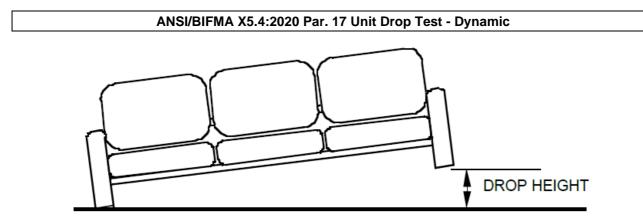
Note: Test performed on sample as 20th test on this sample.

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

Note: Test performed on sample as 21th test on this sample.



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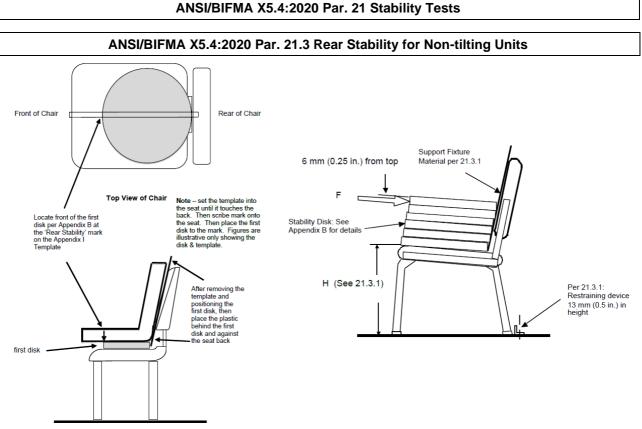


Sample weight (kg)	Drop height (mm)	Cycles	Side	Rating
< 45	180	1	Left	NA
	100	1	Right	NA
45 00	120 -	1	Left	Р
45 - 90		1	Right	Р
× 00 126	60	1	Left	NA
> 90 – 136	60	1	Right	NA
> 136	Non applicabile	-	-	NA

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



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Force has been applied : On top of disks

Applied discs on seat	Horizontal force (N)	Loading point	Rating
6	151	On top of disks	Р

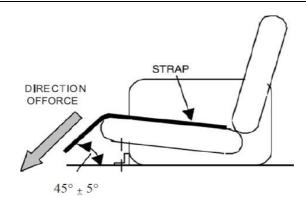
Note: The horizontal force was determined by the following formula: F = 0,1964 (1195 - H), when H found is: 425 mm.

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



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

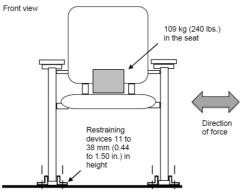


Width of the belt used for the test: 50 mm

Applied force - Downward (N)	Rating
200	Р

Note: Test performed on sample as 16th 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	Р

Note: Test performed on sample as 17th 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.
- *II* = The rating of test CANNOT BE EXPRESSED, see details in test report

END OF TEST REPORT