TEST REPORT: 4789288706.1

APPLICANT

Name: Grupo Forma 5 SL

Address: Acueducto 12-14, Pol. Ind. Ctra de la Isla Dos Hermanas
Seville, 41703
Spain

Product: BIFMA X5.1 - Bika Chair

DATE

Sample in:	17/12/2019
Tests start:	17/12/2019
Tests end:	24/1/2020
Report issue:	24/1/2020

OVERALL DIMENSIONS:

Measured:	**Depth:**	520 mm;	**Height:**	777 mm
	Width:	490 mm	**Weight:**	4,8 kg
Nominal:	**Depth:**	ND;	**Height:**	ND;
	Width:	ND;	**Weight:**	ND;

Sample number 2747618 **Order Number:** 13163997

REFERENCE STANDARD

ANSI/BIFMA X5.1:2017 General-Purpose Office Chairs - Tests.
NOTE: clauses considered as not applicable to the product are not listed in this report.
Example of products covered by the standard: executive/management, task/secretarial, side/guest chairs, nesting folding chairs, tablet arm chairs and stools.

Sample defects before the test: NO VISIBLE DEFECTS
Tests have been performed on a temperature of 21 ± 2 °C
The tests have been performed on 1 sample as requested by the customer
The backrest tested is PIVOT: NO
The sample is classified as Type: III

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.

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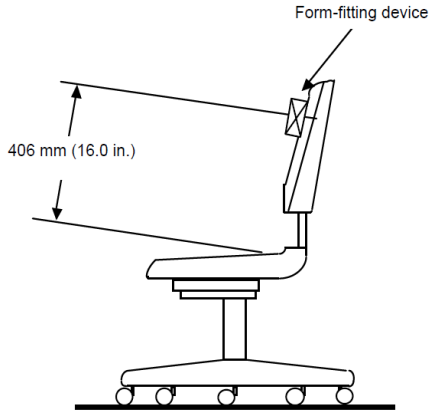
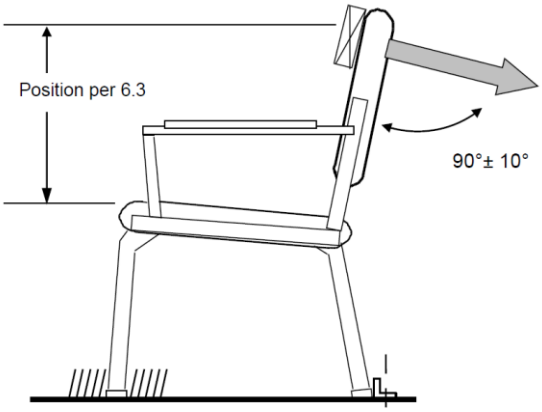
Backrest Strength Test - Static - Type III ANSI/BIFMA X5.1:2017 Par. 6





Test has been performed pushing the backrest backwards
Backrest height: 370 mm
Loading pad height measured from the seat: top of backrest

Functional Load			
Backrest force (N)	**Time of force application (sec)**	**N° cycles**	**Rating**
667	60	1	P

Note: Test performed on sample as 1st test.

Proof Load			
Backrest force (N)	**Time of force application (sec)**	**N° cycles**	**Rating**
1001	60	1	P

Note: Test performed on sample as 2nd test.

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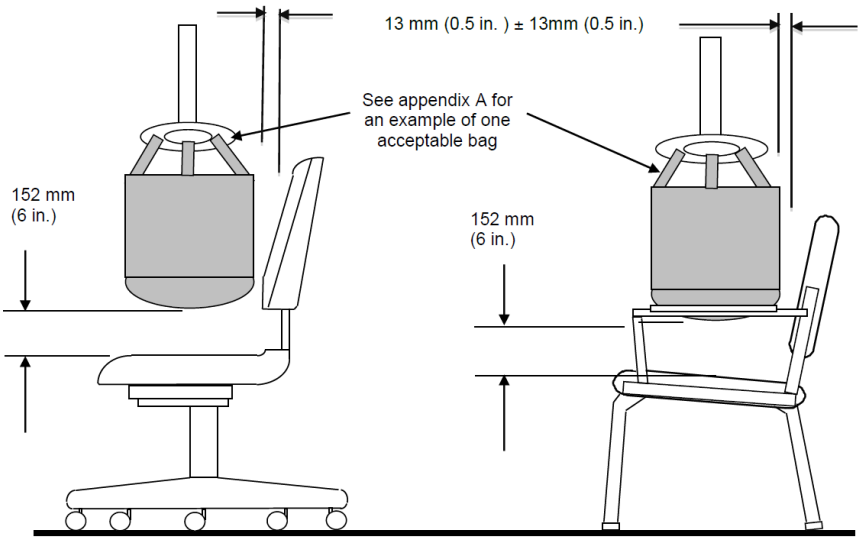
Drop Test - Dynamic ANSI/BIFMA X5.1:2017 Par. 7



Functional Load					
Seat	**The distance between the bag and the backrest**	**Drop height (mm)**	**Weight of bag (kg)**	**N° cycles**	**Rating**
Highest position	13 mm	152	102	1	NA
Lowest Position	13 mm	152	102	1	NA
Fixed position	13 mm	152	102	1	P

Note: Test performed on sample as 3rd test.

Proof Load					
Seat	**The distance between the bag and the backrest**	**Drop height (mm)**	**Weight of bag (kg)**	**N° cycles**	**Rating**
Highest position	13 mm	152	136	1	NA
Lowest Position	13 mm	152	136	1	NA
Fixed position	13 mm	152	136	1	P

Note: Test performed on sample as 4th test.

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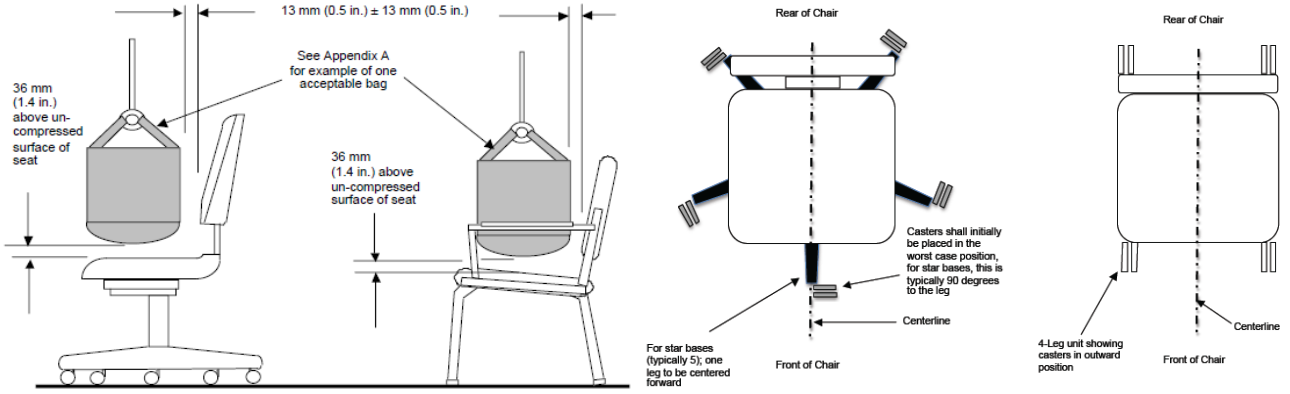
Seating Durability Tests – Cyclic ANSI/BIFMA X5.1:2017 Par. 10

Impact Test ANSI/BIFMA X5.1:2017 Par. 10.3

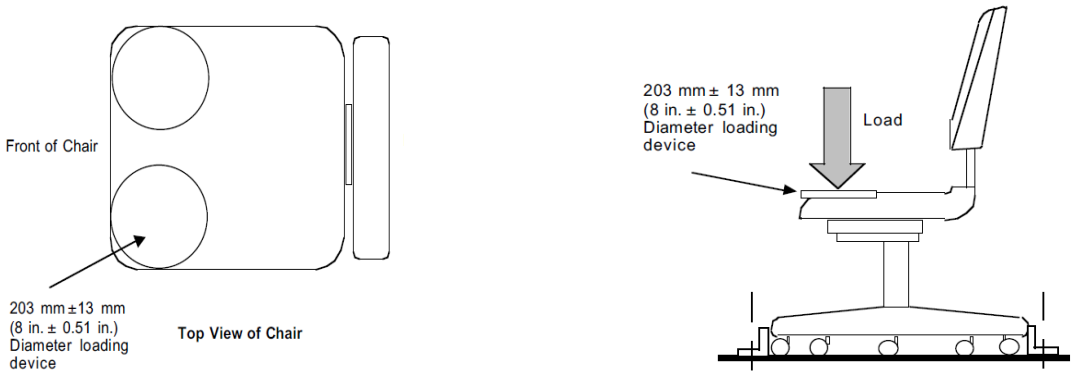


Minimum thickness of cushiony materials of seat: 0 mm
Thickness of additional foam: 50 mm (IFD al 25% di 200 N ± 22 N)
Distance between the bag and the backrest: 13 mm

Weight of bag (kg)	Height of fall (mm)	N° cycles	Frequency (cycles / minute)	Rating
57	36 mm	100.000	10	P

Note: Test performed on sample as 5th test.

Front Corner Load-Ease Test – Cyclic – Off-center ANSI/BIFMA X5.11:2017 Par. 10.4



The test has been performed for 20,000 cycles on a corner of the board and then to 20,000 cycles on the opposite corner

Seating load (N)	N° cycles	Frequency (cycles / minute)	Rating
890	40.000	10	P

Note: Test performed on sample as 6th test.

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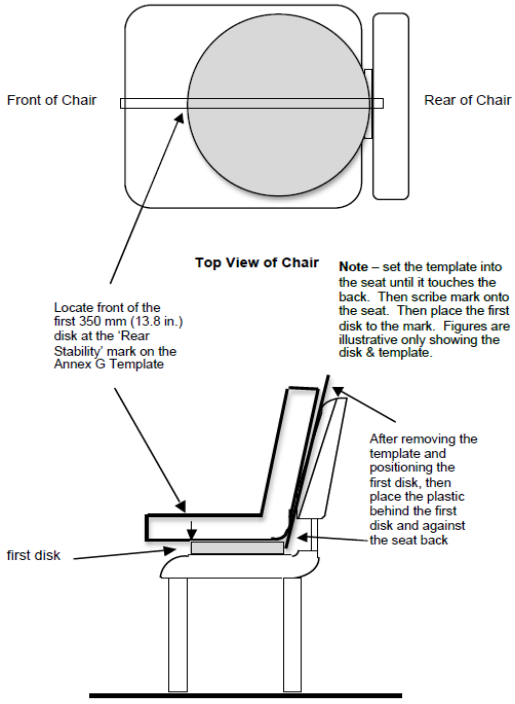
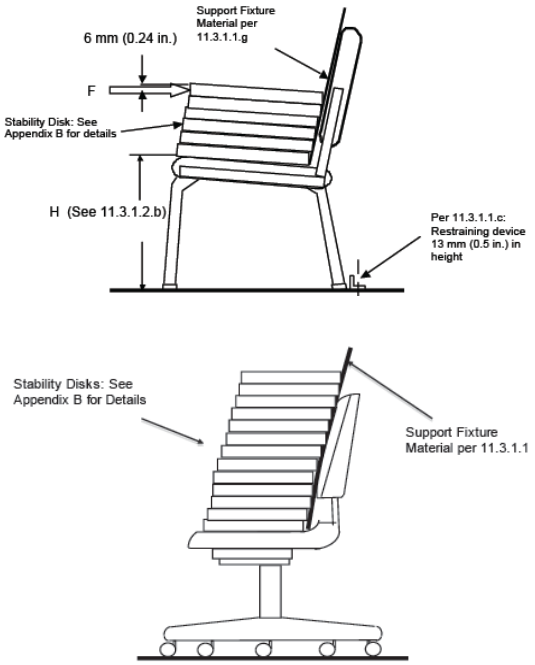
Stability Test ANSI/BIFMA X5.1:2017 Par. 11

Rear Stability ANSI/BIFMA X5.1:2017 Par. 11.3





Force has been applied : on top of the weight

Type III:

Applied discs on seat	Horizontal force (N)	Loading point	Rating
6	148	On top of the weight	P

Note: The horizontal force was determined by the following formula: F = 0,1964 (1195 - H), when H found is: 440 mm.
Test performed on sample as 7th test.

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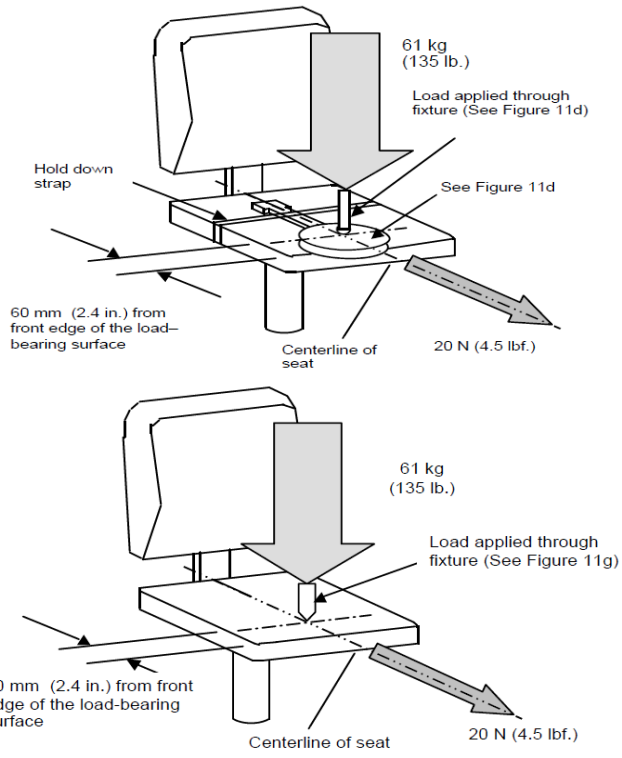
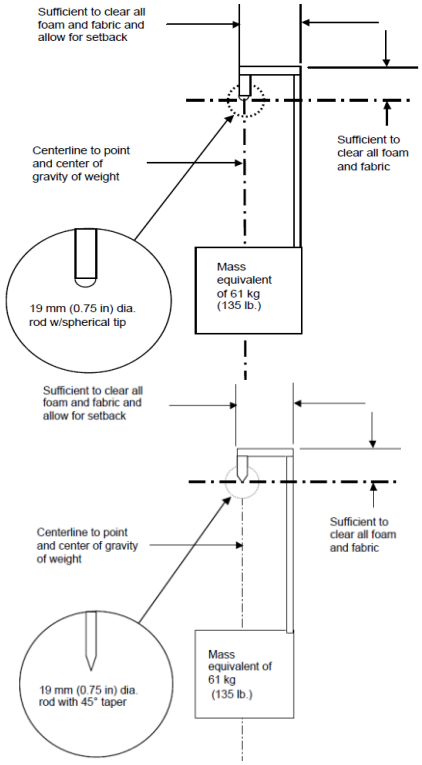
Front Stability ANSI/BIFMA X5.1:2017 Par. 11.4





Load seat (kg)	Loading point (mm)	Horizontal force (N)	Rating
61	60	20	P

Note: Test performed on sample as 8th test.

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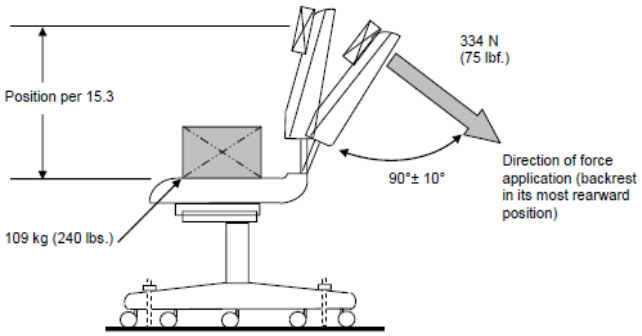
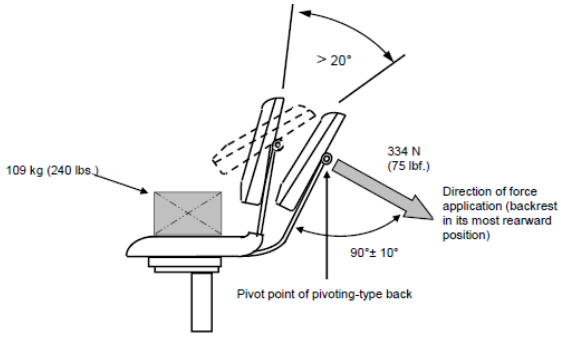
Backrest Durability Test - Cyclic - Type II and III ANSI/BIFMA X5.1:2017 Par. 15





Test has been performed pushing the backrest backwards
Backrest height: 370 mm
Frequency: 15 cycles per minute
Width of the backrest: 430 mm

Width of the backrest > 406 mm				
Loading point on backrest	**Load (kg)**	**Backrest force (N)**	**N° cycles**	**Rating**
Centrally	109	334	80.000	P
102 mm to the right of the vertical centerline.	109	334	20.000	P
102 mm to the left of the vertical centerline.	109	334	20.000	P

Note: Test performed on sample as 9th test.

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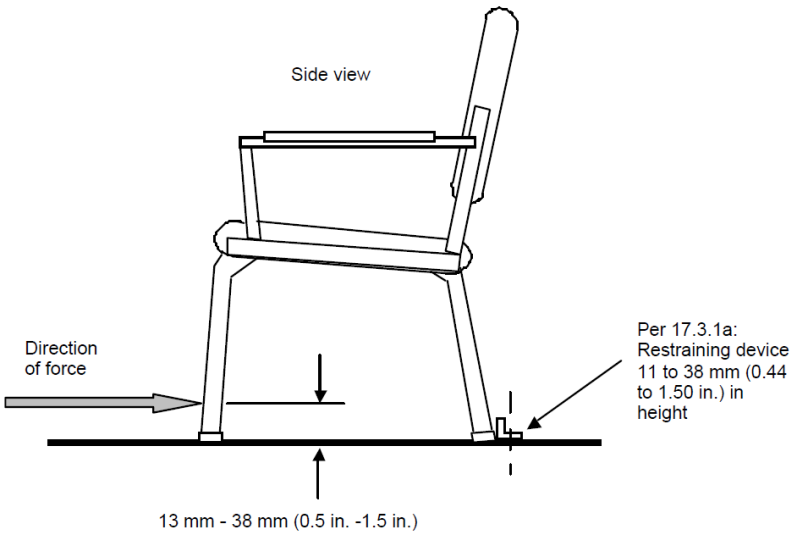
Leg Strength Test - Front and Side Application ANSI/BIFMA X5.1:2017 Par. 17

Front Load Test ANSI/BIFMA X5.1:2017 Par. 17.3



Load is applied to inwards and parallel to the axis between 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: < 25 mm

Functional Load			
Horizontal force (N)	**Time of test (sec)**	**N° cycle**	**Rating**
334	60	1	P

Note: Test performed on sample as 13th test.

Proof load			
Horizontal force (N)	**Time of test (sec)**	**N° cycle**	**Rating**
503	60	1	P

Note: Test performed on sample as14th test. After proof load test we found a loosening and leaking of the front fastening screws of the upper surface of the seat to the frame, such easing is not a structural failure and the sample supports the test load until the end of the test cycle.

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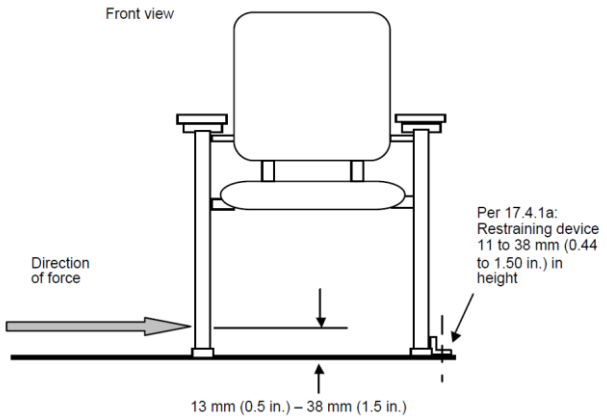
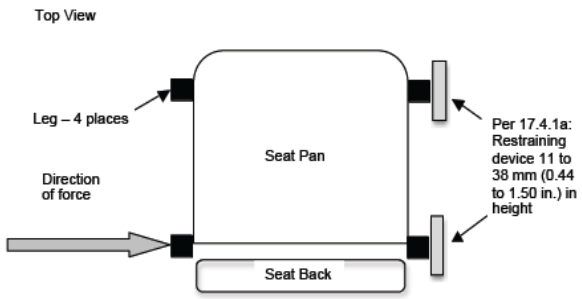
Side Load Test ANSI/BIFMA X5.1:2017 Par. 17.4





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

Functional Load			
Horizontal force (N)	**Time of test (sec)**	**N° cycle**	**Rating**
334	60	1	P

Note: Test performed on sample as10th test..

Proof load			
Horizontal force (N)	**Time of test (sec)**	**N° cycle**	**Rating**
503	60	1	P

Note: Test performed on sample as11th test.

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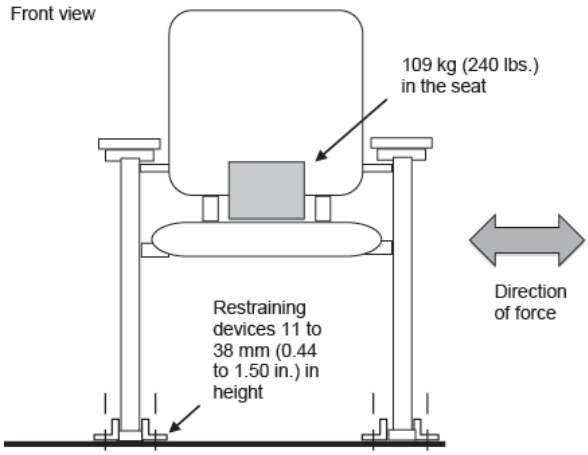
Structural Durability Test – Cyclic ANSI/BIFMA X5.1:2017 Par. 24



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

Note: Test performed on sample as12th test.

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