



# TEST REPORT: 4786867557.1

## APPLICANT

**Name:** Metalmeccanica Alba S.r.l.  
**Address:** Via Boschier, 54/A, Località Ca' Rainati



**Product:** San Zenone degli Ezzelini, TV 31020 Itali

## DATE

**Sample in:** 24/3/2015  
**Tests start:** 26/3/2015  
**Tests end:** 16/4/2015  
**Report issue:** 17/4/2015

## OVERALL DIMENSIONS:

<b>Measured:</b>	<b>Depth:</b>	615 mm;	<b>Height:</b>	760 mm
	<b>Width:</b>	760 mm	<b>Weight:</b>	10,0 kg
<b>Nominal:</b>	<b>Depth:</b>	ND	<b>Height:</b>	ND
	<b>Width:</b>	ND	<b>Weight:</b>	ND
<b>Sample number</b>	2083948, 2083942	<b>Order Number:</b> 10728047		

## ANSI/BIFMA X5.1:2011 General-Purpose Office Chairs - Tests.

NOTE: the paragraphs of the standard evaluated as not applicable to the product have not been shown in this test report

**Defect before test: NO DEFECT**

Tests have been performed on a temperature of  $22 \pm 3 \text{ }^\circ\text{C}$   
Tests have been carried out on 2 samples according to Client request  
Test have been carried out on the sequence shown in this report  
The backrest tested is PIVOT: NO  
The sample is classified as Type: III

Technician  
Rodolfo Sala

Laboratory Manager  
Matteo Longoni

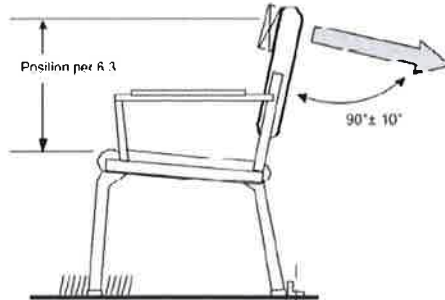
*Note: any copy, even partial, of this report, and any change or alteration to it are strictly forbidden.  
The test results listed in this report are relevant only for the tested sample. Sampling performed by the customer.*



TEST REPORT: 4786867557.1

Issued on: 17/4/2015

**Backrest Strength Test - Static - Type II & III ANSI/BIFMA X5.1:2011 Par. 6**



Test has been performed pushing the backrest backwards  
 Backrest height: 375 mm  
 Loading pad height measured from the seat: 375 mm  
 Adjustment devices have been set on the normal condition

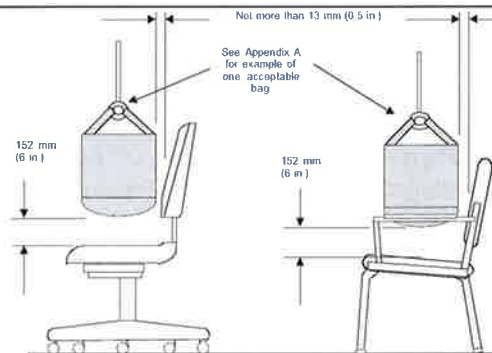
Functional load			
Backrest force (N)	Time of test (sec)	N° cycle	Rating
667	60	1	P

Note: 1st test has been performed on the sample n° 2083948.

Proof load			
Backrest force (N)	Time of test (sec)	N° cycle	Rating
1.112	60	1	P

Note: 1st test has been performed on the sample n° 2083948.

**Drop Test - Dynamic ANSI/BIFMA X5.1:2011 Par. 8**



Adjustment devices have been set on the normal condition

Functional Load				
Distance between the bag and the backrest (mm)	Height of fall (mm)	Weight of bag (kg)	N° cycle	Rating
13	152	102	1	P

Note: 3rd test has been performed on the sample n° n° 2083948.

Proof Load				
Distance between the bag and the backrest (mm)	Height of fall (mm)	Weight of bag (kg)	N° cycle	Rating
13	152	136	1	P

Note: 3rd test has been performed on the sample n° n° 2083948.

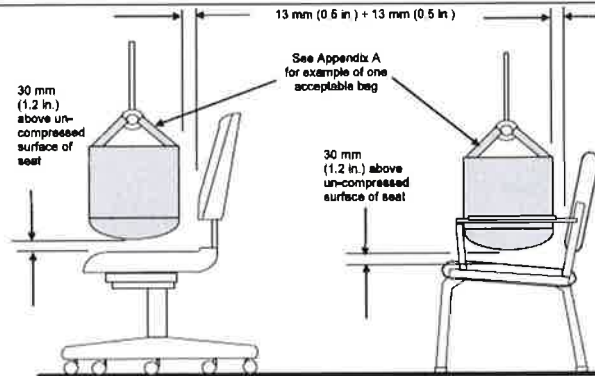


TEST REPORT: 4786867557.1

Issued on: 17/4/2015

Seating Durability Tests – Cyclic ANSI/BIFMA X5.1:2011 Par. 11

Impact Test ANSI/BIFMA X5.1:2011 Par. 11.3



Adjustment devices have been set on the normal condition

Minimum thickness of cushiony materials of seat: 0 mm

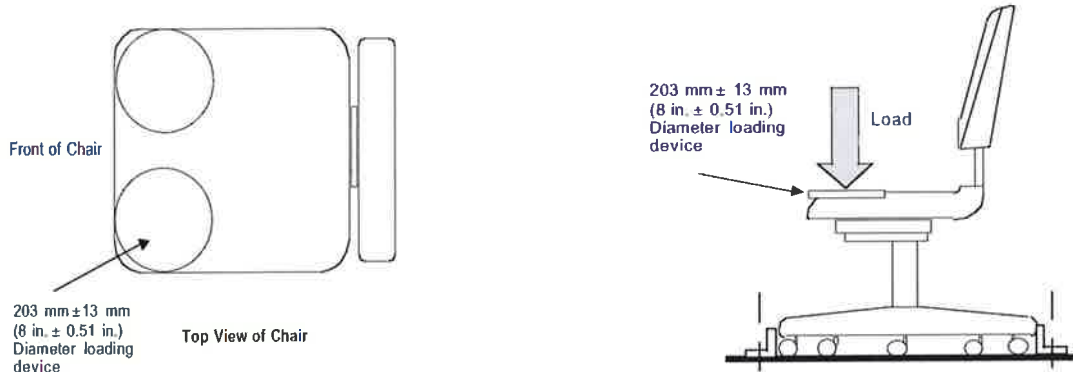
Thickness of additional foam: 50 mm (IFD at 25% di 200 N ± 22 N)

Distance between the bag and the backrest: 13 mm

Weight of bag (kg)	Height of fall (mm)	N° cycle	Cycle frequency (cycle / minute)	Rating
57	30	100.000	10	P

Note: 1st test has been performed on the sample n° 2083942.

Front Corner Load-Ease Test – Cyclic – Off-center ANSI/BIFMA X5.1:2011 Par. 11.4



Test has been performed for 40.000 cycles alternating on front chair (20.000 cycles on each corner)

The armrests have not been removed

Adjustment devices have been set on the normal condition

Seating force (N)	N° cycle	Frequency (cycle / minute)	Rating
734	40.000	12	P

Note: 2<sup>nd</sup> test has been performed on the sample n° 2083942.

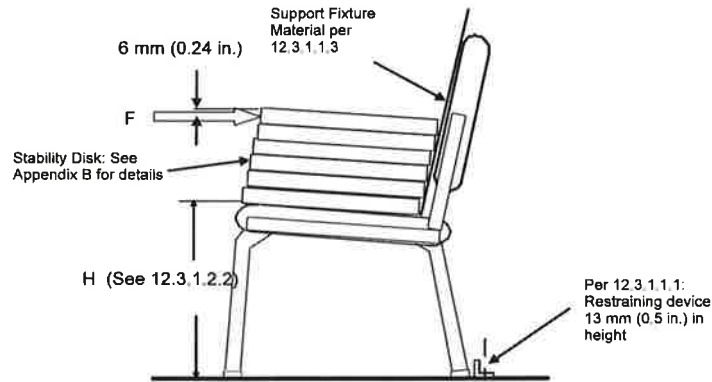


TEST REPORT: 4786867557.1

Issued on: 17/4/2015

Stability Tests ANSI/BIFMA X5.1:2011 Par. 12

Rear Stability ANSI/BIFMA X5.1:2011 Par. 12.3



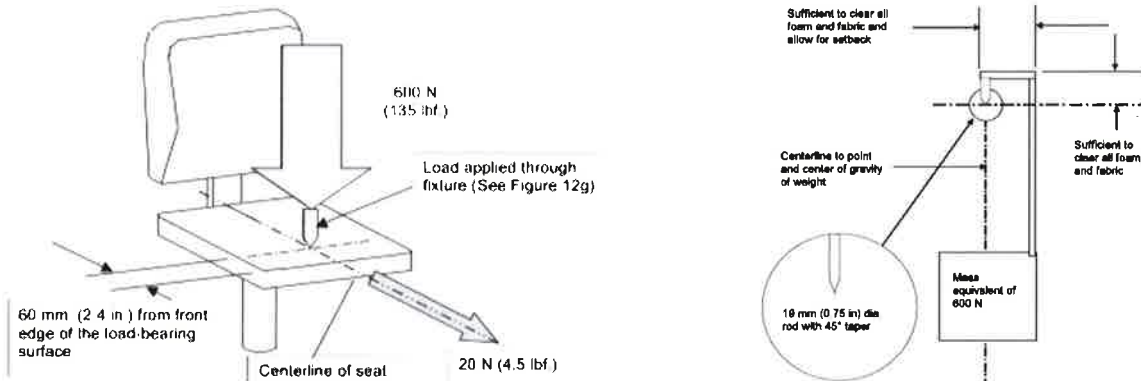
Test has been performed pushing the backrest backwards  
Force of overturning has been applied: top of the disk

Applied discs on seat (N)	Horizontal force (N)	Loading point	Rating
6	106	6 mm from the top of the disk	P

Note: 5<sup>th</sup> test has been performed on the sample n° 2083942.

The horizontal force has been determined by the following formula:  $F = 0,1964 (1195 - H)$ , where H is: 393 mm

Front Stability ANSI/BIFMA X5.1:2011 Par. 12.4



Load seat (N)	Loading point (mm)	Horizontal force (N)	Rating
600	60	20	P

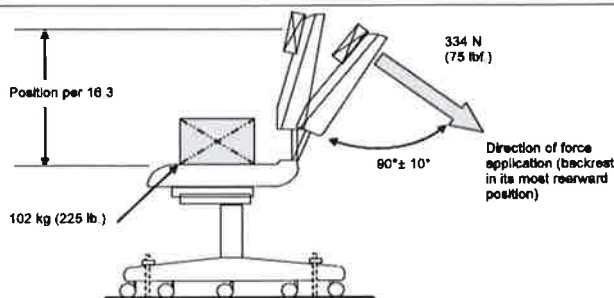
Note: 6<sup>th</sup> test has been performed on the sample n° 2083942.



**TEST REPORT: 4786867557.1**

**Issued on: 17/4/2015**

**Backrest Durability Test - Cyclic - Type II and III ANSI/BIFMA X5.1:2011 Par. 16**



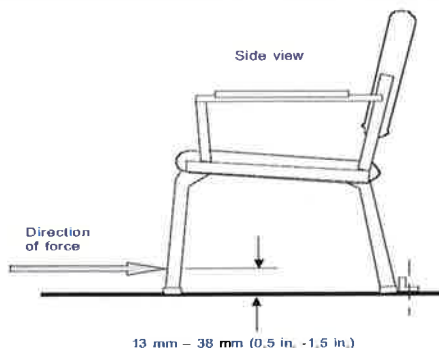
Test has been performed pushing the backrest backwards  
**Backrest height: 375 mm**  
**Loading pad height measured from the seat: 375 mm**  
**Adjustment devices have been set on the normal condition**  
**Cycle frequency: 12 cycle / minute**  
**Backrest width at the point of load: 380 mm**

Backrest width < 406 mm			
Seating load (kg)	Backrest force (N)	N° cycle	Rating
102	334	120.000	P

**Note:** 1st test has been performed on the sample n° 2083948.

**Leg Strength Test - Front and Side Application ANSI/BIFMA X5.1:2011 Par. 18**

**Front Load Test ANSI/BIFMA X5.1:2011 Par. 18.3**



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): 32 mm**  
**Distance between the load pad from the outer edge of the leg: 15 mm**  
**Adjustment devices have been set on the normal condition**

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

**Note:** 3<sup>rd</sup> test has been performed on the sample n° 2083942.

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

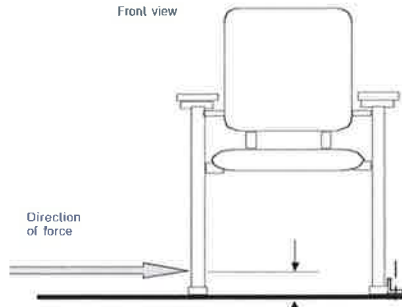
**Note:** 3<sup>rd</sup> test has been performed on the sample n° 2083942.



TEST REPORT: 4786867557.1

Issued on: 17/4/2015

Side Load Test ANSI/BIFMA X5.1:2011 Par. 18.4



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): 35 mm
Distance between the load pad from the outer edge of the leg: 15 mm
Adjustment devices have been set on the normal condition

Table with 4 columns: Horizontal force (N), Time of test (sec), N° cycle, Rating. Row 1: 334, 60, 1, P.

Note: 4th test has been performed on the sample n° 2083942.

Table with 4 columns: Horizontal force (N), Time of test (sec), N° cycle, Rating. Row 1: 503, 60, 1, P.

Note: 4th test has been performed on the sample n° 2083942.

Legend:

- 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