

Date received: 12/11/19

Date of issue: 27/01/20

Report consists of 11 test reports.

Defects before testing: None

Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

SAMPLE N° 281098

Overall dimensions: 640 x 570 x 840 (h) mm

List of test reports:

1. Seating durability test - Cyclic - ANSI-BIFMA X5.1-2017/10
2. Structural durability test - Cyclic ANSI BIFMA X5.1-2017/24
3. Back durability test - Cyclic-Type II and III ANSI-BIFMA X5.1-2017/15
4. Arm durability test - cyclic ANSI-BIFMA X5.1-2017/20
5. Drop test - Dynamic - ANSI- BIFMA X5.1-2017/7
6. Arm strength test-Vertical-Static ANSI-BIFMA X5.1-2017/12
7. Arm strength test - Horizontal-Static ANSI-BIFMA X5.1-2017/13
8. Leg strength test-Front application ANSI-BIFMA X5.1-2017/17
9. Leg strength test- Side application ANSI-BIFMA X5.1-2017/17
10. Backrest strength test - Static ANSI-BIFMA X5.1-2017/6
11. Stability test ANSI-BIFMA X5.1-2017/11



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*Managing Director
Dr. Andrea Giavon*

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SAMPLE N° 281098

Date of issue: 27/01/20
Sample weight: Not determined
Sample name: TIMBER armchair

TEST REPORT

281098 / 1

Revision: 0
Date received: 12/11/19
Date of test: 14/11/19
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Seating durability test - Cyclic - ANSI-BIFMA X5.1-2017/10

Type of chair: Type III

Seat impact test

Height of drop: 36 mm above the uncompressed seat surface

Test results:

Mass of drop kg	Number of drops	Remarks
57	100.000	No defects

Front corner load-ease test - cyclic -off-center

Test results:

Seat load N	Number of cycles	Remarks
890	20.000	No defects

The test results comply with the requirements in clause 10.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 2

Revision: 0
Date received: 12/11/19
Date of test: 28/11/19
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Structural durability test - Cyclic ANSI BIFMA X5.1-2017/24


Type of chair: Type III

Test results:

Seat load kg	Horizontal Force N	Number of cycles	Remarks
109	334	25.000	No defects

The test results comply with the requirements in clause 24.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

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Revision: 0
Date received: 12/11/19
Date of test: 11/12/19
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Back durability test - Cyclic-Type II and III ANSI-BIFMA X5.1-2017/15

Type of chair: Type III

Test results:

Number of cycles	Seat load kg	Force application points on the backrest	Backrest force N	Remarks
80.000	109	Center of the backrest	334	No defects
20.000	109	102 mm right from the center	334	No defects
20.000	109	102 mm left from the center	334	No defects

The test results comply with the requirements in clause 15.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

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Revision: 0
Date received: 12/11/19
Date of test: 24/12/19
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Arm durability test - cyclic ANSI-BIFMA X5.1-2017/20

Type of chair: Type III

Seat height: /

Armrest positioning: /

Test results:

Load on arm rest N	Number of cycles	Remarks
400	60.000	No defects

The test results comply with the requirements in clause 20.4 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 5

Revision: 0
Date received: 12/11/19
Date of test: 31/12/19
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Drop test - Dynamic - ANSI- BIFMA X5.1-2017/7

Type of chair: Type III

Height of drop: 152 mm above the uncompressed seat surface

Test results:

Bag weight kg	Number of drops	Remarks
102	1	No defects
136	1	No defects

The test results comply with the requirements in clause 7.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 6

Revision: 0
Date received: 12/11/19
Date of test: 21/01/20
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Arm strength test-Vertical-Static ANSI-BIFMA X5.1-2017/12

Type of chair: Type III

Test results:

Vertical load N	Time of application	Remarks
750	1'	No defects
1.125	15"	No defects

The test results comply with the requirements in clause 12.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 7

Revision: 0
Date received: 12/11/19
Date of test: 21/01/20
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Arm strength test - Horizontal-Static ANSI-BIFMA X5.1-2017/13

Type of chair: Type III

Test results:

Horizontal load N	Time of application	Remarks
445	1'	No defects
667	15"	No defects

The test results comply with the requirements in clause 13.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 8

Revision: 0
Date received: 12/11/19
Date of test: 21/01/20
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Leg strength test-Front application ANSI-BIFMA X5.1-2017/17

Type of chair: Type III

Test results:

Leg	Applied load N	Load application points mm	Time of application minutes	Remarks
Right leg	334	38 from the bottom and 25 from the edge	1	No defects
Left leg	334	38 from the bottom and 25 from the edge	1	No defects

Leg	Applied load N	Load application points mm	Time of application minutes	Remarks
Right leg	503	38 from the bottom and 25 from the edge	1	No defects
Left leg	503	38 from the bottom and 25 from the edge	1	No defects

The test results comply with the requirements in clause 17.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 9

Revision: 0
Date received: 12/11/19
Date of test: 21/01/20
Date of issue: 27/01/20



CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Sample name: TIMBER armchair

Leg strength test- Side application ANSI-BIFMA X5.1-2017/17

Type of chair: Type III

Test results:

Leg	Applied load N	Load application points mm	Time of application minutes	Remarks
Front leg	334	38 from the bottom and 25 from the edge	1	No defects
Rear leg	334	38 from the bottom and 25 from the edge	1	No defects

Leg	Applied load N	Load application points mm	Time of application minutes	Remarks
Front leg	503	38 from the bottom and 25 from the edge	1	No defects
Rear leg	503	38 from the bottom and 25 from the edge	1	No defects

The test results comply with the requirements in clause 17.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT
281098 / 10

Revision: 0
Date received: 12/11/19
Date of test: 23/01/20
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Backrest strength test - Static ANSI-BIFMA X5.1-2017/6

Type of chair: Type III

Test results:

Back load N	Time of application (minutes)	Remarks
667	1	No defects
1.001	1	No defects

The test results comply with the requirements in clause 6.5 of ANSI-BIFMA X5.1-2017

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TEST REPORT

281098 / 11

Revision: 0
Date received: 12/11/19
Date of test: 24/01/20
Date of issue: 27/01/20



Sample name: TIMBER armchair

CANTARUTTI S.R.L.
VIA MAGGIORE 14
33040 PREMARIACCO (UD)
ITALIA

Stability test ANSI-BIFMA X5.1-2017/11

Type of chair: Type III

Clause 11.3.1

Rear stability for chair type III

Seat load:	60	kg	
Minimum force required :	142	N	Does not overturn
Measured force:	168	N	

Clause 11.3.2

Rear stability for chair type I and II

Loading discs on the seat: /

Clause 11.4

Front stability

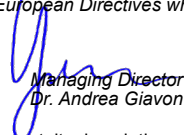
Vertical load:	61	kg	
Minimum force required:	20	N	Does not overturn
Measured force:	> 30	N	

The test results comply with the requirements in clause 11.3.1.3 and 11.4.4 of ANSI-BIFMA X5.1-2017

Unless otherwise specified, measurement uncertainty expanded to a confidence level of about 95% is ± 2 N.

The measurement uncertainties stated in this document have been determined according to UNI CEI 70098-3:2016. They were estimated as expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally k=2.

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