

Date received: 02/03/20

Date of issue: 28/04/20

Report consists of 5 test reports.

Defects before testing: None

Sample name: HART armchair

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

SAMPLE N° 287592

Overall dimensions: 580 x 510 x 790 (h) mm

List of test reports:

1. Structural durability test - Cyclic ANSI BIFMA X5.1-2017/24
2. Seating durability test - Cyclic - ANSI-BIFMA X5.1-2017/10
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. Stability test ANSI-BIFMA X5.1-2017/11



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Managing Director
Dr. Andrea Giavon

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SAMPLE N° 287592

Date of issue: 28/04/20
Sample weight: Not determined
Sample name: HART armchair

TEST REPORT

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Revision: 0
Date received: 02/03/20
Date of test: 06/03/20
Date of issue: 28/04/20



Sample name: HART 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

287592 / 2

Revision: 0
Date received: 02/03/20
Date of test: 16/03/20
Date of issue: 28/04/20



Sample name: HART 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

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Revision: 0
Date received: 02/03/20
Date of test: 27/03/20
Date of issue: 28/04/20



Sample name: HART 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

287592 / 4

Revision: 0
Date received: 02/03/20
Date of test: 06/04/20
Date of issue: 28/04/20



Sample name: HART 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

287592 / 5

Revision: 0
Date received: 02/03/20
Date of test: 22/04/20
Date of issue: 28/04/20



Sample name: HART 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:	> 160	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:	> 40	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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