Date received: 04/06/19
Date of issue: 17/07/19
Report consists of 7 test reports.
Defects before testing: None
Sample name: Sedia TIPI con base in metallo

SAMPLE N° 272669

Overall dimensions: 560 x 520 x 770 (h) mm

List of test reports:
2. Backrest strength test - Static ANSI-BIFMA X5.1-2017/6
3. Drop test - Dynamic - ANSI-BIFMA X5.1-2017/7
4. Leg strength test-Front application ANSI-BIFMA X5.1-2017/17
5. Leg strength test-Side application ANSI-BIFMA X5.1-2017/17
7. Seating durability test - Cyclic - ANSI-BIFMA X5.1-2017/10

This document is validated by digital signature and time stamping in accordance with the Italian laws and the European Directives which regulate the electronic signature systems.

Managing Director
Dr. Andrea Giavon

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.
<table>
<thead>
<tr>
<th>Sample number:</th>
<th>Sample name:</th>
<th>Sample weight:</th>
<th>Date of issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>272669</td>
<td>Sedia TIP con base in metallo</td>
<td>Not determined</td>
<td>17/07/19</td>
</tr>
</tbody>
</table>

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.
<table>
<thead>
<tr>
<th>Stability test ANSI-BIFMA X5.1-2017/11</th>
</tr>
</thead>
</table>

**Test Sample:** Sedia TIPI con base in metallo

<table>
<thead>
<tr>
<th>Date received:</th>
<th>04/06/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of test:</td>
<td>14/06/19</td>
</tr>
<tr>
<td>Date of issue:</td>
<td>17/07/19</td>
</tr>
</tbody>
</table>

**Type of chair:** Type III

**Clause 11.3.1**

Rear stability for chair type III

- Seat load: 60 kg
- Minimum force required: 141 N
  - Does not overturn
- Measured force: 180 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: > 25 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.
TEST REPORT
272669 / 2

Revision: 0
Date received: 04/06/19
Date of test: 17/06/19
Date of issue: 17/07/19
Sample name: Sedia TIPI con base in metallo

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

Type of chair: Type III

Test results:

<table>
<thead>
<tr>
<th>Back load</th>
<th>Time of application (minutes)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>667</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>1.001</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

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

This document is validated by digital signature and time stamping in accordance with the Italian laws and the European Directives which regulate the electronic signature systems.

Managing Director
Dr. Andrea Giavon

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.
TEST REPORT
272669 / 3

Revision: 0
Date received: 04/06/19
Date of test: 17/06/19
Date of issue: 17/07/19
Sample name: Sedia TIPI con base in metallo

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:

<table>
<thead>
<tr>
<th>Bag weight kg</th>
<th>Number of drops</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>136</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

The test results comply with the requirements in clause 7.5 of ANSI-BIFMA X5.1-2017
TEST REPORT
272669 / 4

Revision: 0
Date received: 04/06/19
Date of test: 18/06/19
Date of issue: 17/07/19
Sample name: Sedia TIPI con base in metallo

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

Type of chair: Type III

Test results:

<table>
<thead>
<tr>
<th>Leg</th>
<th>Applied load N</th>
<th>Load application points mm</th>
<th>Time of application minutes</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right leg</td>
<td>334</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>Left leg</td>
<td>334</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leg</th>
<th>Applied load N</th>
<th>Load application points mm</th>
<th>Time of application minutes</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right leg</td>
<td>503</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>Left leg</td>
<td>503</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

The test results comply with the requirements in clause 17.5 of ANSI-BIFMA X5.1-2017
TEST REPORT
272669 / 5

Revision: 0
Date received: 04/06/19
Date of test: 18/06/19
Date of issue: 17/07/19
Sample name: Sedia TIPI con base in metallo

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

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

Type of chair: Type III

Test results:

<table>
<thead>
<tr>
<th>Leg</th>
<th>Applied load N</th>
<th>Load application points mm</th>
<th>Time of application minutes</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front leg</td>
<td>334</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>Rear leg</td>
<td>334</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leg</th>
<th>Applied load N</th>
<th>Load application points mm</th>
<th>Time of application minutes</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front leg</td>
<td>503</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
<tr>
<td>Rear leg</td>
<td>503</td>
<td>38 from the bottom and 25 from the edge</td>
<td>1</td>
<td>No defects</td>
</tr>
</tbody>
</table>

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

This document is validated by: digital signature and time stamping in accordance with the Italian laws and the European Directives which regulate the electronic signature systems.

Managing Director
Dr. Andrea Giavon

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.
## TEST REPORT

**272669 / 6**

<table>
<thead>
<tr>
<th>Revision:</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date received:</td>
<td>04/06/19</td>
</tr>
<tr>
<td>Date of test:</td>
<td>18/06/19</td>
</tr>
<tr>
<td>Date of issue:</td>
<td>17/07/19</td>
</tr>
<tr>
<td>Sample name:</td>
<td>Sedia TIPI con base in metallo</td>
</tr>
</tbody>
</table>

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

#### Type of chair: Type III

#### Test results:

<table>
<thead>
<tr>
<th>Seat load (kg)</th>
<th>Horizontal Force (N)</th>
<th>Number of cycles</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>109</td>
<td>334</td>
<td>25,000</td>
<td>No defects</td>
</tr>
</tbody>
</table>

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

---

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise required by standards and technical specifications or agreed with the customer, any declarations of conformity made by CATAS are based on the comparison between results and reference values, where the confidence intervals of the measures are not taken into account. Unless otherwise stated, sampling is made by the customer; in this case the test results are referred to the sample as received.
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:

<table>
<thead>
<tr>
<th>Mass of drop kg</th>
<th>Number of drops</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>57</td>
<td>100.000</td>
<td>No defects</td>
</tr>
</tbody>
</table>

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

Test results:

<table>
<thead>
<tr>
<th>Seat load N</th>
<th>Number of cycles</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>890</td>
<td>20.000</td>
<td>No defects</td>
</tr>
</tbody>
</table>

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