

Date received: 30/11/20

Date of issue: 10/02/21

Report consists of 15 test reports.

Defects before testing: None

Sample name: ZERO-G WITH ARMS

OMP S.R.L.

VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV)

**ITALIA** 

## **SAMPLE N° 301778**

Overall dimensions: 770 x 770 x 1040 (h) mm

#### List of test reports:

- 1. Dimensional requirements for office visitor chair EN 16139:2013+AC:2013
- 2. Safety requirements EN 16139:2013+AC:2013
- 3. Information for use EN 16139:2013+AC:2013
- 4. Seat and back static load test for reclining chairs EN 1728:2012+AC:2013
- 5. Vertical load on back rest EN 1728:2012+AC:2013
- 6. Arm sideways static load test EN 1728:2012+AC:2013
- 7. Arm downwards static load test EN1728:2012+AC:2013
- 8. Seat and back fatigue test for reclining chairs EN 1728:2012+AC:2013
- 9. Seat front edge durability test EN 1728:2012+AC:2013
- 10. Arm fatigue test EN 1728:2012+AC:2013
- 11. Seat impact test EN 1728:2012+AC:2013
- 12. Back impact test EN 1728:2012+AC:2013
- 13. Arm rest impact test EN 1728:2012+AC:2013
- 14. Rolling resistance of unloaded chair EN 1728:2012+AC:2013
- 15. Stability EN 1022:2018, clause 7.3



This document is part of a PDF file digitally signed by Franco Bulian on

10/02/21.

The managing director Dr. Franco Bulian



## **SAMPLE N° 301778**

Date of issue: 10/02/21

Sample weight: Not determined

Sample name: ZERO-G WITH ARMS



Side view



Bottom view



Rear view



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# TEST REPORT 301778 / 1

Revision: 0

 Date received:
 30/11/20

 Date of test:
 15/12/20

 Date of issue:
 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) ITALIA

## Dimensional requirements for office visitor chair EN 16139:2013+AC:2013

Dimensional requirements for office visitor chair, ANNEX C - EN 16139:2013+AC:2013

411 Seat height "a" (test method according to clause 6.1 of EN 1335-1:2000)

Fixed seat height:

Requirement (mm):	between 400 and 500
Measured (mm):	J .
Conformity:	1

Adjustable seat height:

Requirement (mm):	from 420 to 480 (minimum range)
Measured (mm):	371,9 / 491,5
Conformity:	Yes

412 Seat depth "b" (test method according to clause 6.2 of EN 1335-1:2000)

Requirement (mm):	between 380 and 470
Measured (mm):	451,1
Conformity:	Yes

413 Seat width "d" (test method according to clause 6.4 of EN 1335-1:2000)

<u> </u>	,
Requirement (mm):	≥ 400
Measured (mm):	466,7
Conformity:	Yes

414 Distance between arm rests "r" (test method according to clause 6.16 of EN 1335-1:2000)

Plotance between anniverse 1 (test method decorating to stades t	3.10 01 E14 1000 1.2000)
Requirement (mm):	≥ 460
Measured (mm):	517,7
Conformity:	Yes

The ± 5 mm measurement uncertainty reported in this document was determined according to UNI CEI 70098-3:2016. It is expressed as expanded uncertainty obtained by mutiplying the standard uncertainty by a coverage factor k=2, corresponding to a confidence level of approximately 95%.

The limit is included in the uncertainty interval associated with the measured value.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 2

Revision:

Date received: 30/11/20 Date of test: 15/12/20 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Safety requirements EN 16139:2013+AC:2013

#### Safety requirements clause 4

Statement checked	Remarks
Corner and edges in contact with the users:	
Absence of sharp edges and corners	Yes
Edges on the handles:	
Absence of sharp edges and corners in the direction of the force	Handles not present
Other edges:	
Absence of sharp edges and corners	Yes
Accessible hollow components:	
The ends of hollow components are closed or capped	Yes
Movable and adjustable parts:	
<ul> <li>It shall not be possible for any movable and adjustable part of the chair to come operate unintentionally.</li> </ul>	Movable and adjustable parts not present
Connections between parts of the structure:	
<ul> <li>It shall not be possible for any load bearing part of the seating to come loose unintentionally</li> </ul>	No
Parts which are lubricated:	
All the parts which are lubricated shall be designed to protect users	Lubricated parts not present
Shear and squeeze points between movable parts ≥ 8 mm ≤ 25 mm:	
Shear and squeeze points under influence of powered mechanism	Mechanism not present
<ul> <li>Shear and squeeze points during normal use and during normal movements and actions</li> </ul>	No
Conformity to clauses 4.1 and 4.2 of standard EN 16139:2013+AC:2013:	YES

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 3

Revision:

Date received: 30/11/20 Date of test: 10/02/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Information for use EN 16139:2013+AC:2013

## Information for use clause 7

Statement checked	Remarks
Information for use in the language of the country in which the chair will be delivered to the end user	Italian language
Information regarding the intended use (Annex B of EN 16139:2013+AC:2013)	Present
Instruction for operating the adjusting mechanisms, where applicable	Present
Assembly instructions, where applicable	Not applicable
Instruction for the care and the maintenance of the chair	Present
Information on the choice of castors in relation to the floor surface if the chair is fitted	Present
Advice that only trained personnel may replace or repair seat height adjustment components with energy accumulators if the chair is fitted	Present

Conformity to clause 7 of standard EN 16139:2013+AC:2013:	YES
-----------------------------------------------------------	-----

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 4

Revision:

Date received: 30/11/20 Date of test: 17/12/20 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Seat and back static load test for reclining chairs EN 1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Seat and back static load test for reclining chair clause 6.4, EN 1728:2012+AC:2013

Inclination of the back rest measured: 70°

#### Test results:

Seat load N	Back force N	Back rest position	Number of cycles	Remarks
2000	650	vertical	5	No defects
1800	550	reclined	5	No defects

#### Note:

According to EN 1728:2012+AC:2013, back force has been reduced from 700 N to 650 N and from 680 N to 550 N to avoid tipping.

Seat front edge static load, clause 6.5, EN 1728:2012+AC:2013

Seat load N	Number of cycles	Remarks
1.600	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian 0:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 5

Revision:

Date received: 30/11/20 Date of test: 22/12/20 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Vertical load on back rest EN 1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Vertical static load on back rest clause 6.6, EN 1728:2012+AC:2013

#### Test results:

Seat load N	Downwards force N	Number of applications	Remarks
1.800	900	10	No defects

## Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 6

Revision:

Date received: 30/11/20 Date of test: 22/12/20 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Arm sideways static load test EN 1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Arm sideways static load test clause 6.10, EN 1728:2012+AC:2013

#### Test results:

Horizontal force N	Number of applications	Remarks
900	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT**

Revision:

Date received: Date of test:

301778 / 7 30/11/20 22/12/20 Date of issue: 10/02/21 Sample name: ZERO-G WITH ARMS OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Arm downwards static load test EN1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Arm downwards static load test clause 6.11, EN 1728:2012+AC:2013

#### Test results:

Vertical force N	Number of applications	Remarks
900	5	No defects

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 8

Revision:

Date received: 30/11/20 Date of test: 04/01/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Seat and back fatigue test for reclining chairs EN 1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Seat and back fatigue test for reclining chairs clause 6.17, EN 1728:2012+AC:2013

Inclination of the back rest measured: 70

Test results:

Seat force N	Back force N	Back rest position	Number of cycles	Remarks
1.000	300	Vertical	100.000	No defects
930	340	Reclined	100.000	No defects

200.000 Total cycles carried out:

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian 0.



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 9

Revision:

Date received: 30/11/20 Date of test: 21/01/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Seat front edge durability test EN 1728:2012+AC:2013

## Test performed according to EN 16139:2013+AC:2013

Seat front edge durability test clause 6.18, EN 1728:2012+AC:2013

## Test results:

Points of application	Seat force N	Number of cycles	Remarks
100 mm back from the front and sides edges	800	100.000	No defects

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 10

Revision:

Date received: 30/11/20 Date of test: 28/01/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Arm fatigue test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Arm fatigue test clause 6.20, EN 1728:2012+AC:2013

#### Test results:

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

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 11

Revision:

Date received: 30/11/20 Date of test: 02/02/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Seat impact test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Seat impact test clause 6.24, EN 1728:2012+AC:2013

#### Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	300	point A	10	No defects
25	300	100 mm from the front seat edge	10	No defects

## Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 12

Revision:

Date received: 30/11/20 Date of test: 02/02/21 Date of issue: 10/02/21

Sample name:



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Back impact test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Back impact test clause 6.25, EN 1728:2012+AC:2013

#### Test results:

Angle	Mass of impactor kg	Number of cycles	Remarks
48	6,5	10	No defects

Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

# **TEST REPORT** 301778 / 13

Revision:

Date received: 30/11/20 Date of test: 02/02/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) **ITALIA** 

## Arm rest impact test EN 1728:2012+AC:2013

### Test performed according to EN 16139:2013+AC:2013

Arm rest impact test clause 6.26, EN 1728:2012+AC:2013

#### Test results:

Angle	Mass of impactor kg	Number of cycles	Remarks
48	6,5	10	No defects

#### Note:

The test results comply with the requirements in clause 5 of EN 16139:2013+AC:2013, level 2.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e:



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

## TEST REPORT

301778 / 14

Revision: 0

 Date received:
 30/11/20

 Date of test:
 05/02/21

 Date of issue:
 10/02/21

Sample name: ZERO-G WITH ARMS



OMP S.R.L. VIA CA' LEONCINO, 2 31030 CASTELLO DI GODEGO (TV) ITALIA

## Rolling resistance of unloaded chair EN 1728:2012+AC:2013

Rolling resistance of unloaded chair clause 6.30

Type of castors: W

Test surface: steel floor
Test speed: 50 mm/s

Seat height: lowest position

Test results:

Measured resistance of castors N	Minimum allowed resistance N	Remarks
18,3	12	No defects

Unless otherwise specified, measurement uncertaintie expanded to a confidence level of about 95% are ±2,0 N.

The measurement uncertainties stated in this document have been determined according to UNI CEI ENV 13005:2000. They were estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally k=2.

The limit is included in the uncertainty interval associated with the measured value.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian



Testing site: via Antica, 24/3 33048 San Giovanni al Natisone (UD) tel. +39 0432 747211 lab@catas.com

OMP S.R.L.

**ITALIA** 

VIA CA' LEONCINO, 2

31030 CASTELLO DI GODEGO (TV)



LAB N° 0027 L Membro degli MRA EA, IAF e ILAC

## **TEST REPORT** 301778 / 15

Revision:

Date received: 30/11/20 Date of test: 05/02/21 Date of issue: 10/02/21

Sample name: ZERO-G WITH ARMS



## **Stability EN 1022:2018, clause 7.3**

Type of chair: tilting geometry

Positioning of chair components: as specified in Table 1 of EN 1022:2018

Loads and masses according to table B1 of EN 1022:2018, annex B

Forwards overturning

Forwards overturning, clause 7.3.1 : does not overturn

Forwards overturning for seating with foot rest, clause 7.3.2

Corner stability, clause 7.3.3 : does not overturn

Sideways overturning

Sideways overturning, all seating without arm rests, clause 7.3.4

Seating with arm rests, clause 7.3.5.2 : does not overturn

Seating with raised side edges, clause 7.3.5.3

Rearwards overturning

Rearwards overturning all seating with back rests, clause 7.3.6

Minimum force required: 142 N : does not overturn

Tilting seating, clause 7.4.2 : does not overturn

Reclining seating with leg rest, clause 7.4.3 Reclining seating without leg rest, clause 7.4.4 Rearwards stability test for rocking chairs, clause 7.4.5

The test results comply with the requirements in clause 7.2 of EN 1022:2018.

This test report is part of a PDF file digitally signed by Franco Bulian

on 10/02/21.

The managing director Dr. Franco Bulian e: