

Date received: 20/05/15

Date of issue: 14/07/15

Report consists of 11 test reports.

Defects before testing: None

Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

SAMPLE N° 196341

Overall dimensions: 560 x 550 x 780 (h) mm

List performed tests:

1. Safety requirements EN 16139:2013+AC:2013
2. Information for use EN 16139:2013+AC:2013
3. Seat and back static load test EN 1728:2012+AC:2013
4. Vertical load on back rest EN 1728:2012+AC:2013
5. Seat and back fatigue test EN 1728:2012+AC:2013
6. Seat front edge durability test EN 1728:2012+AC:2013
7. Leg forward static load test EN 1728:2012+AC:2013
8. Leg sideways static load test EN 1728:2012+AC:2013
9. Seat impact test EN 1728:2012+AC:2013
10. Back impact test EN 1728:2012+AC:2013
11. Stability - EN 1022:2005



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Managing Director
Dr. Andrea Glavon

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SAMPLE N° 196341

Date of issue: 14/07/15
Sample weight: Not determined
Sample name: RAMA gambe metallo



Side view



Rear view



Bottom view

TEST REPORT

196341 / 1

Date received: 20/05/15
Date of test: 22/05/15
Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
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: • It shall not be possible for any movable and adjustable part of the chair to come operate unintentionally.	Movable and adjustable parts not present
Connections between parts of the structure: • It shall not be possible for any load bearing part of the seating to come loose unintentionally	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 $\geq 7 \text{ mm} \leq 18 \text{ mm}$: • Shear and squeeze points under influence of powered mechanism • Shear and squeeze points during normal use and during normal movements and actions	Mechanism not present No
Conformity to clauses 4.1 and 4.2 of standard EN 16139:2013:	YES

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TEST REPORT

196341 / 2

Date received: 20/05/15
Date of test: 14/07/15
Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
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)	Present
Instruction for operating the adjusting mechanisms, where applicable	Not applicable
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	Castors not present
Advice that only trained personnel may replace or repair seat height adjustment components with energy accumulators if the chair is fitted	Seat height adjustment not present

Conformity to clause 7 of standard EN 16139:2013:

YES

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TEST REPORT

196341 / 3

Date received: 20/05/15
Date of test: 25/05/15
Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Seat and back static load test EN 1728:2012+AC:2013

Seat and back static load test, clause 6.4

Test results:

Seat load N	Back force N	Number of cycles	Remarks
2.000	700	10	No defects

Seat front edge static load, clause 6.5

Seat load N	Number of cycles	Remarks
1.600	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 4

Date received: 20/05/15

Date of test: 25/05/15

Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

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

Vertical static load on back rest clause 6.6

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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Managing Director
Dr. Andrea Gravon

TEST REPORT

196341 / 5

Date received: 20/05/15

Date of test: 08/06/15

Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Seat and back fatigue test EN 1728:2012+AC:2013

Seat and back fatigue test, clause 6.17

Test results:

Seat force N	Back force N	Number of cycles	Remarks
1.000	300	200.000	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 6

Date received: 20/05/15

Date of test: 19/06/15

Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

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

Seat front edge durability test clause 6.18

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 7

Date received: 20/05/15

Date of test: 03/07/15

Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Leg forward static load test EN 1728:2012+AC:2013

Leg forward static load test clause 6.15

Test results:

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
620	1.800	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 8

Date received: 20/05/15
Date of test: 03/07/15
Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
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Leg sideways static load test EN 1728:2012+AC:2013

Leg sideways static load test clause 6.16

Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
550	1.800	10	No defects

Note:

According to EN 1728:2012, horizontal force has been reduced from 760 N to 550 N, to avoid tipping.

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 9

Date received: 20/05/15
Date of test: 03/07/15
Date of issue: 14/07/15



Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Seat impact test EN 1728:2012+AC:2013

Seat impact test clause 6.24

Test results:

Mass of impactor kg	Height of drop mm	Number of drops	Remarks
25	300	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 10

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Sample name: RAMA gambe metallo

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VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Back impact test EN 1728:2012+AC:2013

Back impact test clause 6.25

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L2 - extreme.

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TEST REPORT

196341 / 11

Date received: 20/05/15

Date of test: 03/07/15

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Sample name: RAMA gambe metallo

KRISTALIA S.R.L.
VIA CALDERANO 5
33070 BRUGNERA (PN)
ITALIA

Stability - EN 1022:2005

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 157 N

Forwards overturning

Horizontal force : 20 N does not overturn

Rearwards overturning

Fixed back chair

Horizontal force : 157 N does not overturn

Tilting chair in the rearmost position

Loading discs on the seat : /

Sideways overturning for chairs with arms

Horizontal force : /

Sideways overturning for chairs without arms

Horizontal force : 20 N does not overturn

Forwards overturning for chairs with footrest

Horizontal force : /

Test passed

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