

Date received: 26-04-12

Date of issue: 27-07-12

Report consists of 15 test reports.

Defects before testing: None

Sample name: JOKO with armrests

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

## TEST REPORT N° 141225

Overall dimensions: 580 x 550 x 800 (h) mm

### List performed tests:

1. Non-domestic seating. Safety requirements EN 15373:2007
2. Non-domestic seating. Information for use EN 15373:2007
3. Seat and back static load test EN 1728:2000
4. Non-domestic seating. Vertical load on back rest EN 15373:2007
5. Arm sideways static load test EN 1728:2000
6. Arm downwards static load test EN1728:2000
7. Seat and back fatigue test EN 1728:2000
8. Seat front edge durability test EN 1728:2000
9. Arm fatigue test EN 1728:2000
10. Leg forward static load test EN 1728:2000
11. Leg sideways static load test EN 1728:2000
12. Seat impact test EN 1728:2000
13. Back impact test EN 1728:2000
14. Arm impact test EN 1728:2000
15. Stability - EN 1022:2005



*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 stated, sampling has been carried out by the orderer.

## TEST REPORT N° 141225

Date of issue: 27-07-12  
Sample weight: Not determined  
Sample name: JOKO with armrests



Side view



Rear view



Bottom view

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 stated, sampling has been carried out by the orderer.

## TEST REPORT

141225 / 1

Date received: 26-04-12  
Date of test: 14-05-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Non-domestic seating. Safety requirements EN 15373:2007

Non-domestic seating. Safety requirements EN 15373:2007 - clauses 5.1 and 5.2

Statement checked	Remarks
Corner and edges in contact with the users: • 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 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 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 part 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 • Shear and squeeze points created by the weight of the user during normal movements and actions	Mechanism not present  No  No
Conformity to clauses 5.1 and 5.2 of standard EN 15373:2007:	YES

*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 Glavon

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 stated, sampling has been carried out by the orderer.

# TEST REPORT

141225 / 2

Date received: 26-04-12  
Date of test: 27-07-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Non-domestic seating. Information for use EN 15373:2007

### Non-domestic seating. Information for use EN 15373:2007 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	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	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 15373:2007:

**YES**

*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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 3**

Date received: 26-04-12

Date of test: 15-05-12

Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Seat and back static load test EN 1728:2000

### Seat and back static load test, clause 6.2.1

#### Test results:

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

### Seat front edge static load, clause 6.2.2

Seat load N	Number of cycles	Remarks
2.000	10	No defects

#### Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 Glavón*

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 stated, sampling has been carried out by the orderer.



## TEST REPORT

**141225 / 4**

Date received: 26-04-12  
Date of test: 15-05-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Non-domestic seating. Vertical load on back rest EN 15373:2007

Non-domestic seating: vertical static load on back rest - Annex A, clause A.2 EN 15373:2007

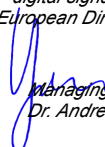
### Test results:

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 15373:2007, level 3 - severe.

*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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 5**

Date received: 26-04-12  
Date of test: 15-05-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Arm sideways static load test EN 1728:2000

Arm sideways static load test, clause 6.5

Test results:

Horizontal force N	Number of applications	Remarks
900	10	No defects

Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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*  
*D. 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 stated, sampling has been carried out by the orderer.

**TEST REPORT**

**141225 / 6**

Date received: 26-04-12  
Date of test: 15-05-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

**Arm downwards static load test EN1728:2000**

Arm downwards static load test, clause 6.6

**Test results:**

Vertical force N	Number of applications	Remarks
1.000	10	No defects

**Note:**

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 stated, sampling has been carried out by the orderer.



## TEST REPORT

**141225 / 7**

Date received: 26-04-12  
Date of test: 24-05-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Seat and back fatigue test EN 1728:2000

Seat and back fatigue test, clause 6.7

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 15373:2007, level 3 - severe.

*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.*

*Mapping 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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 8**

Date received: 26-04-12  
Date of test: 11-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Seat front edge durability test EN 1728:2000

Seat front edge durability test, clause 6.8

Test results:

Points of application	Seat force N	Number of cycles	Remarks
80 mm back from the front edge	1.000	100.000	No defects

Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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*

## TEST REPORT

**141225 / 9**

Date received: 26-04-12  
Date of test: 18-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Arm fatigue test EN 1728:2000

Arm fatigue test, clause 6.10

Test results:

Load on arm rest N	Number of cycles	Remarks
400	100.000	No defects

Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 Giaven*

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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 10**

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Leg forward static load test EN 1728:2000

Leg forward static load test, clause 6.12

### 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 15373:2007, level 3 - severe.

*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 Glavon*

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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 11**

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Leg sideways static load test EN 1728:2000

Leg sideways static load test, clause 6.13

Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
700	1.800	10	No defects

Note:

According to EN 1728:2000, horizontal force has been reduced from 760 N to 700 N, to avoid tipping.

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 12**

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Seat impact test EN 1728:2000

Seat impact test, clause 6.15

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 15373:2007, level 3 - severe.

*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 Giaron*



# TEST REPORT

141225 / 13

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Back impact test EN 1728:2000

Back impact test, clause 6.16

Test results:

Angle °	Mass of impactor kg	Number of cycles	Remarks
68	6,5	10	No defects

Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 stated, sampling has been carried out by the orderer.

## TEST REPORT

**141225 / 14**

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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

## Arm impact test EN 1728:2000

Arm impact test, clause 6.17

Test results:

Angle °	Mass of impactor kg	Number of cycles	Remarks
68	6,5	10	No defects

Note:

The test has been carried out according to table 1 of EN 15373:2007, level 3 - severe.

*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 stated, sampling has been carried out by the orderer.

TEST REPORT

141225 / 15

Date received: 26-04-12  
Date of test: 26-06-12  
Date of issue: 27-07-12



Sample name: JOKO with armrests

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: 170 N

**Forwards overturning**

Horizontal force : 20 N does not overturn

**Rearwards overturning**

Fixed back chair

Horizontal force : 170 N does not overturn

**Tilting chair in the rearmost position**

Loading discs on the seat : //

**Sideways overturning for chairs with arms**

Horizontal force : 20 N does not overturn

**Sideways overturning for chairs without arms**

Horizontal force : //

**Forwards overturning for chairs with footrest**

Horizontal force : //

Test passed

*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*