

Date received: 25-09-12

Date of issue: 29-10-12

Report consists of 14 test reports.

Defects before testing: None

Sample name: KOMPASS

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

## TEST REPORT N° 147404

Overall dimensions: 560 x 510 x 760 (h) mm

### List performed tests:

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



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Managing Director  
Dr. Andrea Giavon

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## TEST REPORT N° 147404

Date of issue: 29-10-12  
Sample weight: Not determined  
Sample name: KOMPASS



Side view



Rear view



Bottom view

TEST REPORT

147404 / 1

Date received: 25-09-12  
Date of test: 28-09-12  
Date of issue: 29-10-12

Sample name: KOMPASS



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 wich are lubricated: • All the parts wich 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 • 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:	<b>YES</b>

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**TEST REPORT**

**147404 / 2**

Date received: 25-09-12  
Date of test: 02-10-12  
Date of issue: 29-10-12



Sample name: KOMPASS

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	600	10	No defects

Note:

According to EN 1728:2000, back force has been reduced from 700 N to 600 N to avoid tipping.

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.

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*Managing Director  
Dr. Andrea Giavon*

## TEST REPORT

147404 / 3

Date received: 25-09-12  
Date of test: 02-10-12  
Date of issue: 29-10-12

Sample name: KOMPASS

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.

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**TEST REPORT**

**147404 / 4**

Date received: 25-09-12  
Date of test: 02-10-12  
Date of issue: 29-10-12



Sample name: **KOMPASS**

**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.

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TEST REPORT

147404 / 5

Date received: 25-09-12

Date of test: 02-10-12

Date of issue: 29-10-12

Sample name: KOMPASS



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.

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**TEST REPORT**

**147404 / 6**

Date received: 25-09-12  
Date of test: 03-10-12  
Date of issue: 29-10-12

Sample name: KOMPASS



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	280	200.000	No defects

Note:

According to EN 1728:2000, back force has been reduced from 300 N to 280 N to avoid tipping.

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

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**TEST REPORT****147404 / 7**Date received: 25-09-12  
Date of test: 16-10-12  
Date of issue: 29-10-12Sample name: **KOMPASS****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.

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## TEST REPORT

147404 / 8

Date received: 25-09-12

Date of test: 22-10-12

Date of issue: 29-10-12

Sample name: KOMPASS

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.

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**TEST REPORT**

**147404 / 9**

Date received: 25-09-12  
Date of test: 29-10-12  
Date of issue: 29-10-12



Sample name: **KOMPASS**

**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.

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**TEST REPORT**

**147404 / 10**

Date received: 25-09-12  
Date of test: 29-10-12  
Date of issue: 29-10-12



Sample name: **KOMPASS**

**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
760	1.800	10	No defects

Note:

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

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**TEST REPORT**

**147404 / 11**

Date received: 25-09-12  
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Date of issue: 29-10-12



Sample name: **KOMPASS**

**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.

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TEST REPORT

147404 / 12

Date received: 25-09-12  
Date of test: 29-10-12  
Date of issue: 29-10-12

Sample name: KOMPASS



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.

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## TEST REPORT

147404 / 13

Date received: 25-09-12

Date of test: 29-10-12

Date of issue: 29-10-12

Sample name: KOMPASS

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.

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TEST REPORT

147404 / 14

Date received: 25-09-12

Date of test: 29-10-12

Date of issue: 29-10-12

Sample name: KOMPASS



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: 169 N

**Forwards overturning**

Horizontal force : 20 N does not overturn

**Rearwards overturning**

Fixed back chair

Horizontal force : 169 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

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