

Report ID: 369749
Date of sample receipt: 02/05/24
Date of issue: 31/05/24

CERANTOLA S.P.A.
VIA GIORGIONE 2-ZONA IND.LE
31037 RAMON DI LORIA (TV)
ITALIA

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

SAMPLE N° 369749

Overall dimensions: 570 x 560 x 810 (h) mm

List of test reports:

1. Safety requirements EN 16139:2013+AC:2013
2. Information for use EN 16139:2013+AC:2013
3. Seat and back static load test and seat front edge static load test EN 1728:2012+AC:2013
4. Vertical load on back rest EN 1728:2012+AC:2013
5. Arm sideways static load test EN 1728:2012+AC:2013
6. Arm downwards static load test EN 1728:2012+AC:2013
7. Vertical upwards static load on arm rests EN 1728:2012+AC:2013
8. Seat and back fatigue test 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. Leg forward static load test EN 1728:2012+AC:2013
12. Leg sideways static load test EN 1728:2012+AC:2013
13. Seat impact test EN 1728:2012+AC:2013
14. Back impact test EN 1728:2012+AC:2013
15. Arm rest impact test EN 1728:2012+AC:2013
16. Stability - EN 1022:2005
17. Stability EN 1022:2023, clause 7.3



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The deputy director
Dr. Paolo Tirelli

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SAMPLE N° 369749

Date of issue: 31/05/24

Sample weight: Not determined

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM



Side view



Rear view



Bottom view

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TEST REPORT

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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 $\geq 8 \text{ mm} \leq 25 \text{ mm}$: • 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+AC:2013:

YES

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Date of test: 06/05/24
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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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 (Valuated only English and Italian languages)	Present
Information regarding the intended use (Annex B of EN 16139:2013+AC: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+AC:2013:

YES

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clauses 6.4 and 6.5 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

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

Test results:

Seat load N	Back force N	Number of cycles	Remarks
1.600	560	10	No defects

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

Seat load N	Number of cycles	Remarks
1.300	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.6 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Seat load N	Downwards force N	Number of applications	Remarks
1.300	600	10	No defects

The test results comply with the requirements of clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.10 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Horizontal force N	Number of applications	Remarks
400	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.11 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Vertical force N	Number of applications	Remarks
750	5	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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TEST REPORT

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Vertical upwards static load on arm rests EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clauses 6.13.1 and 6.13.2 and in accordance to the test parameters of EN 16139:2013+AC:2013, tabella 1

Stacking seating clause 6.13.2, EN 1728:2012+AC:2013

Number of stacking seating declared by the customer: 4

Maximum load: 25 kg

Test results:

Number of lifting cycles	Time of application s	Remarks
10	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Date of test: 16/05/24
Date of issue: 31/05/24



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ITALIA

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.17 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Seat load N	Back force N	Number of cycles	Remarks
1.000	300	100.000	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Date of issue: 31/05/24



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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.18 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Points of application	Seat force N	Number of cycles	Remarks
100 mm back from the front and sides edges	800	50.000	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Date of test: 28/05/24
Date of issue: 31/05/24



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ITALIA

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Arm fatigue test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.20 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Force on arm rest N	Number of cycles	Remarks
400	30.000	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.15 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
500	1.000	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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ITALIA

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.16 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
400	1.000	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Seat impact test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.24 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	240	seat loading point (A)	10	No defects
25	240	on the longitudinal axis, 100 mm from the front seat edge	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Back impact test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.25 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Angle °	Mass of impactor kg	Number of cycles	Remarks
38	6,5	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

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

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.25 and in accordance to the test parameters of EN 16139:2013+AC:2013, table 1

Test results:

Angle °	Mass of impactor kg	Number of cycles	Remarks
38	6,5	10	No defects

The test results comply with the requirements in clause 5 of standard EN 16139:2013+AC:2013, level 1

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Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Stability - EN 1022:2005

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 162 N

Forwards overturning

Horizontal force : 20 N does not overturn

Rearwards overturning

Fixed back chair

Horizontal force : 162 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 : /

The test result complies with the requirements of EN 1022:2005

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ITALIA

Sample name: CHAIR RE-AL 2 - FOUR LEGS CHAIR WITH ARMRESTS IN POWDER-COATED ALUMINIUM

Stability EN 1022:2023, clause 7.3

Type of chair: fixed geometry

Positioning of chair components: as specified in Table 2 of EN 1022:2023

Loads and masses according to table B1 of EN 1022:2023, annex B

Forwards overturning

Forwards overturning, clause 7.3.1	:	20 N	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	:	20 N	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: 162 N	:	162 N	does not overturn
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Tilting seating, clause 7.4.2	:	/	
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Reclining seating with leg rest, clause 7.4.3	:	/	
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Reclining seating without leg rest, clause 7.4.4	:	/	
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Rearwards stability test for rocking chairs, clause 7.4.5	:	/	
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The test results comply with the requirements in clause 7.2 of standard EN 1022:2023

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The deputy director
Dr. Paolo Tirelli

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