

Date received: 29/12/20

Date of issue: 08/02/21

Report consists of 16 test reports.

Defects before testing: None

Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

## SAMPLE N° 303214

Overall dimensions: 740 x 750 x 800 (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 EN 1728:2012+AC:2013
4. Vertical load on back rest EN 1728:2012+AC:2013
5. Arm downwards static load test EN1728:2012+AC:2013
6. Arm sideways static load test EN 1728:2012+AC:2013
7. Seat and back fatigue test EN 1728:2012+AC:2013
8. Seat front edge durability test EN 1728:2012+AC:2013
9. Arm fatigue test EN 1728:2012+AC:2013
10. Leg forward static load test EN 1728:2012+AC:2013
11. Leg sideways static load test EN 1728:2012+AC:2013
12. Seat impact test EN 1728:2012+AC:2013
13. Back impact test EN 1728:2012+AC:2013
14. Arm rest impact test EN 1728:2012+AC:2013
15. Stability - EN 1022:2005
16. Stability EN 1022:2018, clause 7.3



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Managing Director  
Dr. Franco Bulian

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## SAMPLE N° 303214

Date of issue: 08/02/21  
Sample weight: Not determined  
Sample name: ROYCE armchair



Side view



Rear view



Bottom view

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TEST REPORT

303214 / 1

Revision: 0  
Date received: 29/12/20  
Date of test: 05/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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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**TEST REPORT**

**303214 / 2**

Revision: 0  
Date received: 29/12/20  
Date of test: 08/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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	English language
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:	<b>YES</b>
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**TEST REPORT**

**303214 / 3**

Revision: 0  
Date received: 29/12/20  
Date of test: 05/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

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

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

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

Note:

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

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**TEST REPORT**

**303214 / 4**

Revision: 0  
Date received: 29/12/20  
Date of test: 05/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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
1.300	600	10	No defects

Note:

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

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**TEST REPORT**

**303214 / 5**

Revision: 0  
Date received: 29/12/20  
Date of test: 05/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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
750	5	No defects

Note:

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

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**TEST REPORT**

**303214 / 6**

Revision: 0  
Date received: 29/12/20  
Date of test: 05/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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
400	10	No defects

Note:

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

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**TEST REPORT**

**303214 / 7**

Revision: 0  
Date received: 29/12/20  
Date of test: 11/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

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

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

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

Test results:

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

Note:

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

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**TEST REPORT**

**303214 / 8**

Revision: 0  
Date received: 29/12/20  
Date of test: 21/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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	50.000	No defects

Note:

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

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**TEST REPORT**

**303214 / 9**

Revision: 0  
Date received: 29/12/20  
Date of test: 26/01/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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	30.000	No defects

Note:

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

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**TEST REPORT**  
**303214 / 10**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

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

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

Leg forward static load test clause 6.15, EN 1728:2012+AC:2013

Test results:

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

Note:

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

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**TEST REPORT**

**303214 / 11**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

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

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

Leg sideways static load test clause 6.16, EN 1728:2012+AC:2013

Test results:

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

Note:

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

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**TEST REPORT**  
**303214 / 12**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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	240	point A	10	No defects
25	240	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 1.

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**TEST REPORT**  
**303214 / 13**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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
38	6,5	10	No defects

Note:

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

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**TEST REPORT**  
**303214 / 14**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**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
38	6,5	10	No defects

Note:

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

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**TEST REPORT**  
**303214 / 15**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

**Stability - EN 1022:2005**

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 186 N

**Forwards overturning**

Horizontal force : 20 N does not overturn

**Rearwards overturning**

Fixed back chair

Horizontal force : 186 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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**TEST REPORT**  
**303214 / 16**

Revision: 0  
Date received: 29/12/20  
Date of test: 02/02/21  
Date of issue: 08/02/21



Sample name: ROYCE armchair

SP01 D.O.O.  
LETALISKA CESTA 3D  
1000 LJUBLJANA  
SI - SLOVENIA

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

Type of chair: fixed 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: 186 N : does not overturn

Tilting seating, clause 7.4.2 : /  
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.

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