

Date received: 08/03/19

Date of issue: 09/05/19

Report consists of 13 test reports.

Defects before testing: None

Sample name: SPLIT chair metal frame - for education

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

SAMPLE N° 267905

Overall dimensions: 490 x 460 x 780 (h) mm

List of test reports:

1. Chairs for school: dimensions EN 1729-1:2015
2. Chairs for school: marking EN 1729-1:2015
3. Chairs for school.: instructions EN 1729-1:2015
4. Chairs for educational institutions: general safety requirements EN 1729-2:2012+A1:2015
5. Chairs for schools: stability EN 1729-2:2012+A1:2015
6. Chairs for educational institutions: Seat and back static load test EN 1729-2:2012+A1:2015
7. Chairs for educational institutions: Seat and back fatigue test EN 1729-2:2012+A1:2015
8. Chairs for educational institutions - Seat front edge fatigue test EN 1729-2:2012+A1:2015
9. Chairs for educational institutions - Leg sideways static load test EN 1729-2:2012+A1:2015
10. Chairs for educational institutions. Leg forward static load test EN 1729-2:2012+A1:2015
11. Chairs for educational institutions - Seat impact test EN 1729-2:2012+A1:2015
12. Chairs for educational institutions: back impact test EN 1729-2:2012+A1:2015
13. Chairs for educational institutions: drop test EN 1729-1:2012+A1:2015



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Managing Director
Dr. Andrea Giavon

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SAMPLE N° 267905

Date of issue: 09/05/19
Sample weight: Not determined
Sample name: SPLIT chair metal frame - for education



Side view



Rear view



Bottom view

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TEST REPORT

267905 / 1

Revision: 0
Date received: 08/03/19
Date of test: 02/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for school: dimensions EN 1729-1:2015

Chairs for school: dimensions EN 1729-1:2015 annex A

Size mark: 6

Dimensions in mm

Test results:

Symbols	Dimensions	Value requested	Value measured	Conformity
h8	Height of the seat	(460 ± 10)	459	Yes
t4	Effective depth of the seat	(420 ± 25)	424	Yes
b3	Width of the seat	min 380	398	Yes
h7	Height of the backrest	min 100	> 100	Yes
b4	Width of the backrest	min 330	396	Yes
r2	Radius of the backrest	min 300	> 300	Yes
α	Inclination of the seat (°)	da -5° a 7°	-1,3°	Yes
γ	Angle between seat and backrest (°)	da 95° a 110°	95°	Yes
o	Width of armrest	min 20	/	/
p	Height of armrest above the seat	(230 -20/+10)	/	/
q	Distance from backrest to the front of armrest	max 275	/	/
r	Width between armrests	da 460 a 510	/	/
n	Length of armrest	min 80	/	/
x	Distance between Point S and back of the seat pad	max 50	22	Yes
e	Height of raised edges	max 25	18	Yes

Conformity to the annex A of the standard EN 1729-1:2015:

YES

Unless otherwise specified, measurement uncertainties expanded to a confidence level of about 95% are ±2 mm for linear measures, ±1° for angles.

The measurement uncertainties stated in this document have been determined according to UNI CEI 70098-3:2016. They were estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally k=2.

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TEST REPORT

267905 / 2

Revision: 0
Date received: 08/03/19
Date of test: 07/05/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for school: marking EN 1729-1:2015

Chairs for school: marking EN 1729-1:2015 clause 5

Information checked	Remarks
a) Size mark or color code or both, as specified in annex A of the standard EN 1729-1:2006	Present
b) Marking on adjustable chairs of the size marks covered	Present
c) Name and/or trade name and/or mark and address of the manufacturer or his or her authorised representative in full or abbreviated form	Present
d) Year and month of production	Present
Tall chairs: chairs shall also be marked with a reference where to find information on the table height they are intended to be used with.	Not applicable

Conformity to clause 5 of standard EN 1729-1:2015:	YES
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TEST REPORT

267905 / 3

Revision: 0
Date received: 08/03/19
Date of test: 09/05/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for school.: instructions EN 1729-1:2015

Chairs for school: instruction EN 1729-1:2015 clause 6

Information checked	Remarks
Shall be submitted in the official languages(s) of the country where the furniture is sold	Italian and English languages

Shall include the following informations:

a) Size mark: size mark identification shall be referenced to this European standard (EN 1729-1:2015);	Present
b) Maintenance instructions: including informazion on surface finish properties, maitenance and cleaning;	Present
c) Installation instructions for multi-size furniture: instructions on how to adjust the furniture to fit a specific group of pupils;	Not applicable
d) Adjustability information: instructions for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognise correct setting and therefore a good posture.	Not applicable
e) Warning concerning the hazard when working with gas lifts: "Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only."	Gas cylinder not present

Conformity to clause 6 of standard EN 1729-1:2015:	YES
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TEST REPORT

267905 / 4

Revision: 0
Date received: 08/03/19
Date of test: 03/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions: general safety requirements EN 1729-2:2012+A1:2015

Chairs for school: safety requirements EN 1729-2:2012+A1:2015, clause 4

Requirement	Remarks
a) Edges of the seat, back rest and arm rests, which are in contact with the user when sitting in the chair: minimum 2 mm radius	Yes
b) Edges on the handles: minimum 2 mm radius in the direction of the force applied	Not present
c) All other edges and corners with which the user may come into contact with during normal use shall be smooth, rounded or chamfered and shall have no burrs.	Yes
d) Accessible moving parts operated by powered mechanism: distance not permitted > 8 mm and ≤ 25 mm	Not present
e) With the exception of setting up folder chairs, there shall be no accessible gaps ≤ 8 mm or ≥ 25 mm created during normal movements and actions	Yes
f) Adjustment controls shall not operate inadvertently or accidentally	Yes
g) Open ends: capped or otherwise closed	Yes
h) Parts shall not be detachable without the use of an appropriate tool	Yes
i) Parts which are lubricated shall be covered in order to avoid staining	Not present

Conformity to clause 4 par. a, b, c, d, e, f, g, h, i of standard EN 1729-2:2012+A1:2015:	YES
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TEST REPORT

267905 / 5

Revision: 0
Date received: 08/03/19
Date of test: 03/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for schools: stability EN 1729-2:2012+A1:2015

Chairs for school: stability EN 1729-2:2012 clause 5.2

Test methods: EN 1022:2005 and EN 1335-3:2009

Measured seat height: 459 mm

Size mark: 6
Seat load: 600 N

Forwards overturning: clause 5.2.2

Minimum horizontal force	:	20 N	
Horizontal force measured	:	20 N	does not overturn

Sideways overturning of chair without armrests: clause 5.2.3.1

Minimum horizontal force	:	20 N	
Horizontal force measured	:	20 N	does not overturn

Sideways overturning of chair with armrests: clause 5.2.3.2

Seat load	:	/
Armrest load	:	/
Minimum horizontal force	:	/
Horizontal force measured	:	/

Rearwards overturning: clause 5.2.4

Minimum horizontal force	:	180 N	
Horizontal force measured	:	180 N	does not overturn

Chairs with backrest inclination: clause 5.2.5

Number of discs	:	/
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Conformity to clause 4, par. K of standard EN 1729-2:2012:

YES

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TEST REPORT

267905 / 6

Revision: 0
Date received: 08/03/19
Date of test: 03/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions: Seat and back static load test EN 1729-2:2012+A1:2015

Chairs for school: seat and back static load EN 1729-2:2012+A1:2015 clause 5.3.2

Test method: EN 1728:2012 clause 6.4

Measured seat height: 459 mm

Size mark: 6

Test results:

Seat load N	Back load N	Number of cycles	Remarks
2.000	650	10	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

Note:

According to EN 1728:2012, back force has been reduced from 700 N to 650 N to avoid tipping.

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TEST REPORT
267905 / 7

Revision: 0
Date received: 08/03/19
Date of test: 03/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions: Seat and back fatigue test EN 1729-2:2012+A1:2015

Chairs for school: seat and back durability EN 1729-2:2012+A1:2015 clause 5.3.3

Test method: EN 1728:2012 par. 6.17

Measured seat height: 459 mm

Size mark: 6

Test results:

Seat load N	Back load N	Number of cycles	Remarks
1.250	300	100.000	No defects

Conformity to clause 4 par I of standard EN 1729-2:2012+A1:2015:	YES
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TEST REPORT

267905 / 8

Revision: 0
Date received: 08/03/19
Date of test: 12/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions - Seat front edge fatigue test EN 1729-2:2012+A1:2015

Chairs for school: seat front edge durability EN 1729-2:2012+A1:2015 clause 5.3.4

Test method: EN 1728:2012 clause 6.18

Measured seat height: 459 mm

Size mark: 6

Test results:

Seat load N	Points of application	Number of cycles	Remarks
800	80 mm back from front and side edges	50.000	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

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TEST REPORT

267905 / 9

Revision: 0
Date received: 08/03/19
Date of test: 30/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions - Leg sideways static load test EN 1729-2:2012+A1:2015

Chairs for school: sideways static load EN 1729-2:2012+A1:2015 clause 5.3.5

Test method: EN 1728:2012 clause 6.16

Measured seat height: 459 mm

Size mark: 6

Test results:

Sideways horizontal force N	Balancing seat load N	Number of cycles	Remarks
460	1.600	10	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

Note:

According to EN 1728:2012, horizontal force has been reduced from 600 N to 460 N, to avoid tipping.

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TEST REPORT
267905 / 10

Revision: 0
Date received: 08/03/19
Date of test: 30/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions. Leg forward static load test EN 1729-2:2012+A1:2015

Chairs for school: forward static load EN 1729-2:2012+A1:2015 clause 5.3.6

Test method: EN 1728:2012 clause 6.15

Measured seat height: 459 mm

Size mark: 6

Test results:

Forward horizontal force N	Balancing seat load N	Number of cycles	Remarks
600	1.600	10	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

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TEST REPORT

267905 / 11

Revision: 0
Date received: 08/03/19
Date of test: 30/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions - Seat impact test EN 1729-2:2012+A1:2015

Chairs for school: seat impact EN 1729-2:2012+A1:2015 clause 5.3.7

Test method: EN 1728:2012 clause 6.24

Measured seat height: 459 mm

Size mark: 6

Test results:

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

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

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TEST REPORT
267905 / 12

Revision: 0
Date received: 08/03/19
Date of test: 30/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions: back impact test EN 1729-2:2012+A1:2015

Chairs for school: back impact EN 1729-2:2012+A1:2015 clause 5.3.8

Test method: EN 1728:2012 clause 6.25

Measured seat height: 459 mm

Size mark: 6

Test results:

Mass of impactor kg	Height of drops mm	Number of drops	Remarks
6,5	620	10	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015:

YES

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TEST REPORT
267905 / 13

Revision: 0
Date received: 08/03/19
Date of test: 30/04/19
Date of issue: 09/05/19



Sample name: SPLIT chair metal frame - for education

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

Chairs for educational institutions: drop test EN 1729-1:2012+A1:2015

Chairs for school: drop test EN 1729-2:2012+A1:2015 clause 5.3.10

Test method: EN 1728:2012 clause 6.27.3

Measured seat height: 459 mm

Size mark: 6

Test results:

Height of drops mm	Number of drops	Remarks
600	10	No defects

Conformity to clause 4 par. I of standard EN 1729-2:2012+A1:2015

YES

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