

Date received: 27/10/17

Date of issue: 28/12/17

Report consists of 17 test reports.

Defects before testing: None

Sample name: THOMAS stool

## SAMPLE N° 240468

Overall dimensions: 520 x 470 x 950 (h) mm

### List performed tests:

1. Safety requirements EN 16139:2013+AC:2013
2. Seat and back static load test EN 1728:2012+AC:2013
3. Vertical load on back rest EN 1728:2012+AC:2013
4. Foot rest static load test 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. Foot rest durability test EN 1728:2012+AC:2013
12. Leg forward static load test EN 1728:2012+AC:2013
13. Leg sideways static load test EN 1728:2012+AC:2013
14. Seat impact test EN 1728:2012+AC:2013
15. Back impact test EN 1728:2012+AC:2013
16. Arm rest impact test EN 1728:2012+AC:2013
17. Stability - EN 1022:2005



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Managing Director  
Dr. Andrea Giavon

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## SAMPLE N° 240468

Date of issue: 28/12/17  
Sample weight: Not determined  
Sample name: THOMAS stool



Side view



Rear view



Bottom view

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## TEST REPORT

**240468 / 1**

Date received: 27/10/17

Date of test: 03/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



## 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 $\geq 7 \text{ mm} \leq 18 \text{ mm}$ : • 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:	<b>YES</b>

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## TEST REPORT

**240468 / 2**

Date received: 27/10/17

Date of test: 03/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Seat and back static load test, clause 6.4

Test results:

Seat load N	Back force N	Number of cycles	Remarks
1.600	500	10	No defects

Note:

According to EN 1728:2012, back force has been reduced from 560 N to 500 N to avoid tipping.

Seat front edge static load, clause 6.5

Seat load N	Number of cycles	Remarks
1.300	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 3**

Date received: 27/10/17

Date of test: 14/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Vertical static load on back rest clause 6.6

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 4**

Date received: 27/10/17

Date of test: 14/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



### Foot rest static load test EN 1728:2012+AC:2013

Foot rest static load test, clause 6.8

Test results:

Force on foot rest N	Number of cycles	Remarks
1.300	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

240468 / 5

Date received: 27/10/17

Date of test: 14/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Arm sideways static load test clause 6.10

Test results:

Horizontal force N	Number of applications	Remarks
400	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 6**

Date received: 27/10/17

Date of test: 14/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Arm downwards static load test clause 6.11

Test results:

Vertical force N	Number of applications	Remarks
750	5	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 7**

Date received: 27/10/17

Date of test: 14/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Vertical upwards static load on arm rests clause 6.13

Stacking seating clause 6.13.2

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

240468 / 8

Date received: 27/10/17

Date of test: 23/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Seat and back fatigue test, clause 6.17

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 9**

Date received: 27/10/17

Date of test: 30/11/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Seat front edge durability test clause 6.18

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 10**

Date received: 27/10/17

Date of test: 05/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



### Arm fatigue test EN 1728:2012+AC:2013

Arm fatigue test clause 6.20

Test results:

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

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

240468 / 11

Date received: 27/10/17

Date of test: 13/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



### Foot rest durability test EN 1728:2012+AC:2013

Foot rest durability test clause 6.21

#### Test results:

Force on footrest N	Number of cycles	Remarks
1.000	50.000	No defects

#### Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 12**

Date received: 27/10/17

Date of test: 19/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Leg forward static load test clause 6.15

#### Test results:

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
330	1.000	10	No defects

#### Note:

According to EN 1728:2012, horizontal force has been reduced from 500 N to 330 N, to avoid tipping.

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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# TEST REPORT

**240468 / 13**

Date received: 27/10/17

Date of test: 19/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Leg sideways static load test clause 6.16

### Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
220	1.000	10	No defects

### Note:

According to EN 1728:2012, horizontal force has been reduced from 400 N to 220 N, to avoid tipping.

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 14**

Date received: 27/10/17

Date of test: 19/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



## Seat impact test EN 1728:2012+AC:2013

Seat impact test clause 6.24

Test results:

Mass of impactor kg	Height of drop mm	Number of drops	Remarks
25	240	10	No defects

Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 15**

Date received: 27/10/17

Date of test: 20/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



## Back impact test EN 1728:2012+AC:2013

Back impact test clause 6.25

### Test results:

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

### Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 16**

Date received: 27/10/17

Date of test: 20/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



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

Arm rest impact test clause 6.26

### Test results:

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

### Note:

The test has been carried out according to table 1 of EN 16139:2013, level L1 - general.

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## TEST REPORT

**240468 / 17**

Date received: 27/10/17

Date of test: 20/12/17

Date of issue: 28/12/17

Sample name: THOMAS stool



## Stability - EN 1022:2005

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 80 N

### Forwards overturning

Horizontal force : 20 N does not overturn

### Rearwards overturning

Fixed back chair

Horizontal force : 80 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 : 20 N does not overturn

Test passed

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