



centro ricerche-sviluppo
laboratorio prove settore legno-arredo

CATAS S.p.A.
C.F. - P.IVA:
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Reg. Impr. Ud 20663
R.E.A. Ud 198012
Cap.Soc.: € 842.850 i.v.

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Date received: 06-12-07

Date of issue: 29-02-08

Report consists of 8 attached sheets.

Sample name: Breda 6700

Beta kantoorstoelefabriek bv

Minervum 7198

4817 ZN Breda

TEST REPORT N° 88520

List performed tests

1. Office work chair: dimensions EN 1335-1:2000
2. General design requirements -EN 1335-2:2000 -Clause 4.1
3. Seat and back fatigue test - EN 1335-3:2000 - Clause 7
4. Arm rests fatigue test EN 1335-3:2000- Clause 9.1
5. Static load on the arm rest EN 1335-3:2000-Clause 9.2
6. Office chairs - Stability - EN 1335-3:2000 Clause 5
7. Fatigue test of castors EN 1335-3:2000 - Clause 6.2
8. Rolling resistance - EN 1335-3:2000 - Clause 6.1



Head of Department
Paolo Balutto

Managing Director
Dott. Andrea Giayon

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TEST REPORT

88520 / 1

Date received: 06-12-07
Date of test: 06-12-07
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstolenfabriek bv
Minervum 7198
4817 ZN Breda

Office work chair: dimensions EN 1335-1:2000

1. General features

1.1 Seat

depth: adjustable with horizontal movement
 adjustable with backrest inclination
 fixed

inclination: fixed
 adjustable

1.2 Backrest

height: fixed
 adjustable
 adjustable lumbar support

inclination: fixed
 adjustable

1.3 Seat and back synchronized

Yes

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TEST REPORT **88520 / 1**
Date of issue: 29-02-08
Sample name: Breda 6700

Type of chair: A

Test Results:

All linear dimensions are in mm

| symbol | Parameter | requirement | measured | conformity |
|-------------------|---|-------------|--------------|------------|
| SEAT | | | | |
| a | seat height | 400 to 510 | 397 to 517 | yes |
| | adjustment range | 120 min | 120 | yes |
| b | seat depth | 400 to 420 | 400 to 535 | yes |
| | adjustment range | 50 min | 135 | yes |
| c | depth of seat surface | 380 min | 473 | yes |
| d | seat width | 400 min | 501 | yes |
| e | inclination of seat surface | -2° to - 7° | - 1° to - 9° | yes |
| | adjustment range | 6° min | 8° | yes |
| BACK REST | | | | |
| f | height of the back supporting point "S" | 170 to 220 | 170 to 240 | yes |
| | adjustment range | 50 min | 70 | yes |
| g | height of the back pad - adjustable in height | 220 min | 502 | yes |
| | height of the back pad - non adjustable in height | 260 min | // | // |
| h | height of the upper edge of the back rest | 360 min | 558 | yes |
| i | back rest width | 360 min | 481 | yes |
| k | horizontal radius of the back rest | 400 min | > 400 | yes |
| l | back rest inclination (adjustment range) | 15° min | 22° | yes |
| ARM REST | | | | |
| n | length of arm rest | 200 min | 244 | yes |
| o | width of arm rest | 40 min | 59 | yes |
| p | height of armrest - adjustable | 200 to 250 | 192 to 293 | yes |
| | height of armrest - non adjustable | 200 ÷ 250 | // | // |
| q | distance from the front of the arm rest to the front edge of the seat | 100 min | 131 | yes |
| r | clear width between the arm rests | 460 ÷ 510 | 473 | yes |
| UNDERFRAME | | | | |
| s | maximum offset of the underframe | 415 max | 387 | yes |
| t | stability dimension | 195 min | 252 | yes |

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TEST REPORT
88520 / 2

Date received: 06-12-07
Date of test: 11-12-07
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstoelefabriek bv
Minervum 7198
4817 ZN Breda

General design requirements -EN 1335-2:2000 -Clause 4.1

| Requirements | Remarks |
|--|---------|
| a) Parts in contact by user: Distance of accessible movable parts shall be either ≤ 8 mm e ≥ 25 mm in any position during movement. | Yes |
| b) Corners and edges in contact by user: Minimum radius of corners and edges: 2 mm | Yes |
| c) Edges of handles: Minimum radius of handle edges: 2 mm | Yes |
| d) All other edges: Rounded or chamfered: | Yes |
| e) Ends of hollow components: Closed or capped | Yes |
| f) It shall be possible to operate the adjusting devices from sitting position in the chair: | Yes |
| g) It shall not be possible for any load bearing part to come loose unintentionally: | Yes |
| h) Lubricated parts: All parts wich are lubricated shall be protected | Yes |

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TEST REPORT

88520 / 3

Date received: 06-12-07
Date of test: 11-12-07
Date of issue: 29-02-08
Sample name: Breda 6700



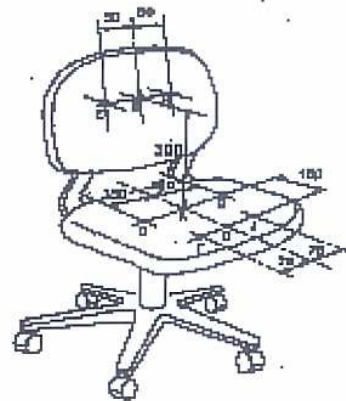
Beta kantoorstoelefabriek bv

Minervum 7198

4817 ZN Breda

Seat and back fatigue test - EN 1335-3:2000 - Clause 7

Seat height: highest position
Seat inclination: horizontal
Back rest in height: highest position
Back rest in depth: rearmost position
Position of castors (points A; D - G): perpendicular to the base arms
Position of castors (ponte C-B;J-E;F-H): see clause. 4.1 - fig.
Tension of mechanism spring: minimum



Test results:

| Number of cycles | Loading point | Forza applicata N | Back rest inclination mechanism | Remarks |
|------------------|---------------|-------------------|---------------------------------|------------|
| 120.000 | A | 1.500 | Unlocked | No defects |
| 80.000 | C B | 1200 320 | Unlocked | No defects |
| 20.000 | J E | 1200 320 | Unlocked | No defects |
| 20.000 | F H | 1200 320 | Unlocked | No defects |
| 20.000 | D G | 1100 1100 | Unlocked | No defects |

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TEST REPORT

88520 / 4

Date received: 06-12-07
Date of test: 14-01-08
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstoelenfabriek bv

Minervum 7198

4817 ZN Breda

Arm rests fatigue test EN 1335-3:2000- Clause 9.1

Seat height: lowest position

Armrest positioning: highest

Test results:

| Load on arm rest N | Number of cycles | Remarks |
|--------------------|------------------|------------|
| 400 | 60.000 | No defects |

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TEST REPORT**88520 / 5**Date received: 06-12-07
Date of test: 21-01-08
Date of issue: 29-02-08
Sample name: Breda 6700

Beta kantoorstolenfabriek bv

Minervum 7198

4817 ZN Breda

Static load on the arm rest EN 1335-3:2000-Clause 9.2Seat height: lowest position
Armrest positioning: highest

Test results:

| Load on the arm rest | Number of cycles | Remarks |
|----------------------|------------------|------------|
| 750 | 5 | See note |
| 900 | 5 | No defects |

Note: after the functional load of 750 N the chair does not overbalance.

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TEST REPORT

88520 / 6

Date received: 06-12-07
Date of test: 22-01-08
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstoelefabriek bv

Minervum 7198

4817 ZN Breda

Office chairs - Stability - EN 1335-3:2000 Clause 5

Minimum horizontal force for rearwards overturning of fixed back chair: 192 N

Chairs with back rest inclination: no overturning with 13 discs of 10 Kg.

Positioning of chair components: as specified in Table 2 of EN 1335-3

Forwards overturning

Horizontal force : 20 N does not overturn

Front edge overturning

Horizontal force : 27 kg does not overturn

Rearwards overturning

Fixed back chair

Horizontal force : //

Chair with back rest inclination

Loading discs on the seat : 13 does not overturn

Sideways overturning for chairs with arms

Horizontal force : 20 N does not overturn

Sideways overturning for chairs without arms

Horizontal force : //

Note: The test has been carried out after the functional load on the arm rest.

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TEST REPORT

88520 / 7

Date received: 06-12-07
Date of test: 22-01-08
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstoelefabriek bv
Minervum 7198
4817 ZN Breda

Fatigue test of castors EN 1335-3:2000 - Clause 6.2

Type of castors: W

Movement of rotating table: from 0° to 180° and back

Rotation speed: 6 min -1

Pause: at each change of direction the table stands still for 2 s

The seat is loaded for 60 s and unloaded for 30 s

Seat height: lowest position

Test results:

| Seat load kg | Duration of test h | Remarks |
|-----------------|--------------------------|------------|
| 75 | 100 | No defects |

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TEST REPORT

88520 / 8

Date received: 06-12-07
Date of test: 28-01-08
Date of issue: 29-02-08
Sample name: Breda 6700



Beta kantoorstoelefabriek bv
Minervum 7198
4817 ZN Breda

Rolling resistance - EN 1335-3:2000 - Clause 6.1

Type of castors: W
Test surface: steel floor
Test speed: 50 mm/s
Seat height: lowest position

Test results:

| Measured resistance before the fatigue test of castors N | Measured resistance after the fatigue test of castors N | Minimum allowed resistance N |
|---|--|---------------------------------|
| 17,5 | 13,2 | 12 |

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