

TEST CERTIFICATE No 03a/16/S

1. Subject and scope of tests:

Conducting tests of furniture with respect to its compliance with the standards

2. Order number: RDM 03/A/16/S

3. Customer's name and address:

BEJOT Sp. z o.o.
63-112 Brodnica near Poznań
Manieczki, ul. Wybickiego 2a

4. Name and symbol of the tested product / products:

OXXO OX 290, OXXO OX W 720, OXXO OX 102, OXXO OX 4R, OXXO OX 5R

5. Date of tests: 20 December 2015 – 09 February 2016

6. Identification of product / products covered by the tests:

Technical description and product design drawing

7. List of standards according to which tests were conducted:

PN-EN 1728:2012

PN-EN 16139:2013_07

PN-EN 1022:2007

PN-EN 1335-1:2004

PN-EN 1335-3:2009

8. Test results:

The results of strength and durability tests together with the evaluation of test results are given in the following cards from 1-03a/16/S to 7-03a/16/S to test certificate No 03a/16/S.

The test results presented in the certificate relate to the examined samples exclusively. The test certificate may not be duplicated in part or in whole.

9. Evaluation of test results:

The aforesaid products are consistent with the requirements of the standards.

Head of the Furniture Testing Laboratory

[Illegible signature]

Karol Łabęda MSc Eng.

Quality Manager of the Furniture Testing Laboratory

[Illegible signature]

Robert Kłos, PhD Eng.

[Stamp: "Poznań University of Life Sciences, Department of Furniture Design, Furniture Testing Laboratory, ul. Wojska Polskiego 38/42, 60-627 Poznań, tel./fax 61 848 74 75, tel. 61 848 74 79"]

Poznań, 09 February 2015

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Card No 1 – 03a/16/S
Strength test. Furniture for seating

Name and symbol of furniture type: OXXO OX 290
Weight of furniture in N: 120
Dimensions of furniture in mm: height: 810 width: 600 depth: 630

Method: PN-EN 1728:2012

Requirements: PN-EN 16139:2013_07 – level 1

Standard point	Type of test	Test parameters	Test result
6.4	Seat and backrest static load test	Vertical force on seat 1600 N, 10 cycles Force perpendicular to backrest 560 N 10 cycles	Positive
6.5	Front seat edge static load test	Vertical force on backrest 1300 N 10 cycles	Positive
6.6	Backrest static load test with downward vertical force	Vertical force 600 N 10 cycles	Positive
6.7	Backrest static load test with forward horizontal force	Horizontal force 450 N 10 cycles	Positive
6.10	Armrest outward static load test	Horizontal force 400 N 10 cycles	Positive
6.11	Armrest downward static load test	Horizontal force 750 N 10 cycles	Positive
6.15	Front leg static load test	Horizontal force 500 N Vertical load 1000 N 10 cycles	Positive
6.16	Side leg static load test	Horizontal force 400 N Vertical load 1000 N 10 cycles	Positive
6.17	Seat and backrest fatigue test	Vertical force on seat 1000 N Force perpendicular to backrest 300 N 100,000 cycles	Positive
6.18	Front seat edge fatigue test	Vertical force on seat 800 N 50,000 cycles	Positive
6.20	Armrest fatigue test	Force at 10° Force 400 N 30,000 cycles	Positive
6.24	Seat impact test	Drop height 240 mm 10 cycles	Positive
6.25	Backrest impact test	Drop height 210 mm 10 cycles	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*
Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 2 – 03a/16/S
Stability test. Furniture for seating

Name and symbol of furniture type: OXXO OX 290
Height of seat in mm: 470

Method and requirements: PN-EN 1022:2007

Standard point	Type of test	Test parameters	Test result
6.2	Forward overbalancing, all furniture for seating	Vertical force 600 N Horizontal force 20 N 5 sec	Positive
6.5	Sideward overbalancing, all furniture for seating with armrests	Vertical force 250 + 350 N Horizontal force 20 N 5 sec	Positive
6.6	Backward overbalancing, all furniture for seating with armrests	Vertical force 600 N Horizontal force 155 N 5 sec	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*
Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 3 – 03a/16/S
Strength test. Furniture for seating

Name and symbol of furniture type: OXXO OX W 720
Weight of furniture in N: 100
Dimensions of furniture in mm: height: 790 width: 600 depth: 630

Method: PN-EN 1728:2012

Requirements: PN-EN 16139:2013_07 – level 1

Standard point	Type of test	Test parameters	Test result
6.4	Seat and backrest static load test	Vertical force on seat 1600 N, 10 cycles Force perpendicular to backrest 560 N 10 cycles	Positive
6.5	Front seat edge static load test	Vertical force on seat 1300 N 10 cycles	Positive
6.6	Backrest static load test with downward vertical force	Vertical force 600 N 10 cycles	Positive
6.7	Backrest static load test with forward horizontal force	Horizontal force 450 N 10 cycles	Positive
6.10	Armrest outward static load test	Horizontal force 400 N 10 cycles	Positive
6.11	Armrest downward static load test	Horizontal force 750 N 10 cycles	Positive
6.15	Front leg static load test	Force on seat 500 N Horizontal force 1000 N 10 cycles	Positive
6.16	Side leg static load test	Force on seat 400 N Horizontal load 1000 N 10 cycles	Positive
6.17	Seat and backrest fatigue test	Vertical force on seat 1000 N Force perpendicular to backrest 300 N 100,000 cycles	Positive
6.18	Front seat edge fatigue test	Vertical force on seat 800 N 50,000 cycles	Positive
6.20	Armrest fatigue test	Force at 10° Force 400 N 30,000 cycles	Positive
6.24	Seat impact test	Drop height 240 mm 10 cycles	Positive
6.25	Backrest impact test	Drop height 210 mm 10 cycles	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*
Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 4 – 03a/16/S
Stability test. Furniture for seating

Name and symbol of furniture type: OXXO OX W 720
Height of seat in mm: 460

Method and requirements: PN-EN 1022:2007

Standard point	Type of test	Test parameters	Test result
6.2	Forward overbalancing, all furniture for seating	Vertical force 600 N Horizontal force 20 N 5 sec	Positive
6.5	Sideward overbalancing, all furniture for seating with armrests	Vertical force 250 N + 350 N Horizontal force 20 N 5 sec	Positive
6.6	Backward overbalancing, all furniture for seating with armrests	Vertical force 600 N Horizontal force 155 N 5 sec	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*
Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 5 – 03a/16/S
Strength test. Furniture for seating

Name and symbol of furniture type: OXXO OX 102
Weight of furniture in N: 130
Dimensions of furniture in mm: height: 830 width: 600 depth: 600

Method: PN-EN 1335-3:2009

Requirements: PN-EN 16139:2013_07, PN-EN 1022:2007

Standard point	Type of test	Test parameters	Test result
7.1.2	Stability test. Forward overbalancing	Vertical load 60 kg Horizontal force 20 N	Positive
7.1.5	Stability test. Sideward overbalancing	Vertical load on seat 35 kg on armrests 25 kg Horizontal force 20 N	Positive
7.1.7	Stability test. Backward overbalancing. Furniture with reclining backrest	Load 13 rings (130 kg)	Positive
7.2.1	Front seat edge static load test	Vertical force on seat 1600 N 10 cycles	Positive
7.2.2	Seat and backrest static load test	Vertical force on seat 1600 N, 10 cycles Force perpendicular to backrest 560 N 10 cycles	Positive
7.2.3	Armrest downward static load test	Vertical force 900 N 10 cycles	Positive
7.2.4	Armrest downward static load test. Front armrest edge test	Vertical force 450 N 5 cycles	Positive
7.2.5	Armrest outward static load test	Horizontal force 400 N 10 cycles	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*

Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 6 – 03a/16/S
Strength test. Furniture for seating

Name and symbol of furniture type: OXXO OX 102

Continued

Method: PN-EN 1335-3:2009

Requirements: PN-EN 16139:2013_07, PN-EN 1022:2007

7.3.1	Seat fatigue test. In point A	Vertical force on seat 1500 N 120,000 cycles	Positive
7.3.1	Seat and backrest fatigue test. In points C-B	Vertical force on seat 1200 N 100,000 cycles Force perpendicular to backrest 320 N 100,000 cycles	Positive
7.3.1	Seat and backrest fatigue test. In points J-E	Vertical force on seat 1200 N 20,000 cycles Force perpendicular to backrest 320 N 20,000 cycles	Positive
7.3.1	Seat and backrest fatigue test. In points D-G	Vertical force on seat 1200 N 20,000 cycles Force perpendicular to backrest 320 N 20,000 cycles	Positive
7.3.2	Armrest fatigue test	Vertical force 300 N 50,000 cycles	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*

Robert Kłos, PhD Eng. *[Illegible signature]*

Card No 7 – 03a/16/S
Determination of functional dimensions. **Furniture for seating**

Name and symbol of furniture type: OXXO OX 102

Method and requirements: PN-EN 1335-1:2004

Standard point	Name of component	Dimensions	Measurement result
6.1	Height of seat, a	Min. 465 mm Max. 595 mm	Positive
6.2	Depth of seat, b	470 mm	Positive
6.3	Depth of seat surface, c	440 mm	Positive
6.4	Width of seat, d	470 mm	Positive
6.5	Inclination of seat, e	-3°	Positive
6.6	Height of back support points above seat level, f	160 mm	Positive
6.7	Height of backrest pillow, g	400 mm	Positive
6.8	Height of upper backrest edge above seat level, h	400 mm	Positive
6.9	Width of backrest, i	400 mm	Positive
6.10	Curvature radius of backrest, k	400 mm	Positive
6.11	Adjustment range of backrest inclination, l	-	Positive
6.12	Usable length of armrests, n	350 mm	Positive
6.13	Usable width of armrest, o	25 mm	Positive
6.14	Usable width of armrests above seat, p	from 160 mm to 280	Positive
6.15	Distance from usable armrest front to front seat edge, q	30 mm	Positive
6.16	Width of clearance between armrests, r	530 mm	Positive

Tests carried out by:

Karol Łabęda, MSc Eng. *[Illegible signature]*
Robert Kłos, PhD Eng. *[Illegible signature]*