

# ZAKŁAD BADAŃ I WDROŻEŃ PRZEMYSŁU MEBLARSKIEGO

Spółka z o.o.

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SIGN: BW/JK/196/16

DATE: 2016-12-30

Order from: 2016-12-13

## TEST REPORT No: 175/16/W

Safety requirements, strength and durability

### 1. Name and type of article -

Swivel chair EXPANDER (W-94)

### 2. CLIENT -

PPHU UNIQUE Karol Gniado  
Stojadła, ul. Kołbielska 27  
05-300 MINSK MAZOWIECKI

### 3. Documents identifying article -

order + technical records.

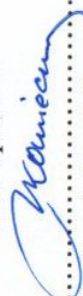
This article was tested in accordance  
with the test procedures described in:

PN-EN 1335-1:2004  
PN-EN 1335-2:2009  
PN-EN 1335-3:2009  
PN-EN 1022:2007

### TEST RESULTS:

**POSITIVE**

Test operator

  
/M Sc. (Eng.) Jacek Konieczny

PREZES ZARZĄDU

  
mgr inż. Piotr Błaszczak

## Name and type of article: Swivel chair EXPANDER (W-94)

Dimension ac. to PN-EN 1335-1:2004

Dimension in mm

| point<br>PN-EN | Dimension                                                                                        | Type C |           |          | in article |             |
|----------------|--------------------------------------------------------------------------------------------------|--------|-----------|----------|------------|-------------|
|                |                                                                                                  | min.   | max.      | min.     | max.       |             |
| SEAT           |                                                                                                  |        |           |          |            |             |
| 6.1            | seat height/*<br>- adjustment range                                                              | a      | 420<br>80 | 480<br>⊗ | 420        | 515<br>95   |
| 6.2            | seat depth                                                                                       | b      | 380       | ⊗        | -          | 450         |
| 6.3            | depth of seat surface                                                                            | c      | 380       | ⊗        | -          | 495         |
| 6.4            | seat width                                                                                       | d      | 400       | ⊗        | -          | 510         |
| 6.5            | inclination of seat surface/*<br>- adjustment range                                              | e      | -2°<br>⊗  | -7°<br>⊗ | -3°        | -12°<br>9°  |
| BACK           |                                                                                                  |        |           |          |            |             |
| 6.6            | the height of point of support<br>backs the "S" above the plane of<br>seat<br>- adjustment range | f      | ⊗<br>⊗    | ⊗<br>⊗   | 90         | 140<br>50   |
| 6.7            | height of back                                                                                   | g      | 260       | ⊗        | -          | 480         |
| 6.9            | back rest width                                                                                  | i      | 360       | ⊗        | -          | 475         |
| 6.10           | horizontal radius of the back rest                                                               | k      | 400       | ⊗        | -          | 930         |
| 6.11           | back rest inclination<br>- adjustment range                                                      | l      | ⊗         | ⊗        | 104°       | 127°<br>23° |
| ARM REST       |                                                                                                  |        |           |          |            |             |
| 6.12           | length of arm rest                                                                               | n      | 200       | ⊗        | -          | 260         |
| 6.13           | width of arm rest                                                                                | o      | 40        | ⊗        | -          | 80          |
| 6.14           | height of arm rest above the<br>seat/** (adjustable)                                             | p      | 200       | 250      | 160        | 275         |
| 6.15           | distance from the front of the arm<br>rests to the front edge of the seat                        | q      | 100       | ⊗        | 85         | 125         |
| 6.16           | clear width between the arm rest                                                                 | r      | 460       | ⊗        | 500        | 580         |
| UNDERFRAME     |                                                                                                  |        |           |          |            |             |
| 6.17           | maximum offset of the under-<br>frame (anti-stumbling-dimension)                                 | s      | ⊗         | 400      | -          | 345         |
| 6.18           | stability dimension                                                                              | t      | 195       | ⊗        | 215        | -           |

⊗ - no requirement specified,  
/ \* - standard allows for larger dimension.

SIGNED: .....  
LABORATORIUM

*The name, symbol and the type of piece of furniture: Swivel chair EXPANDER (W-94)*

SAFETY REQUIREMENTS:

| point<br>PN-EN | Test description                       | Requirement             | Test results |
|----------------|----------------------------------------|-------------------------|--------------|
| 4.1.1          | burrs, sharp edges, open ends of tubes | inadmissible            | positive     |
|                | shear and squeeze points               | inadmissible            |              |
| 4.1.2          | movable and adjustable parts           | they do not injuries    | positive     |
| 4.1.3          | connection of bearing parts            | they do not get loosen  | positive     |
| 4.1.4          | parts lubricated to assist sliding     | does not cause staining | positive     |

STABILITY:

| No | Test description                                   | Loading                                                               | Test results |
|----|----------------------------------------------------|-----------------------------------------------------------------------|--------------|
| 1  | Front edge overturning                             | mass – 27 kg                                                          | pass         |
| 2  | Forward overturning                                | vertical force 600 N<br>horizontal force 20 N                         | pass         |
| 3  | Sideways overturning for chairs with arm rests     | vertical force 250 N<br>vertical force 350 N<br>horizontal force 20 N | pass         |
| 4  | Rearwards overturning                              | vertical force 600 N<br>horizontal force 192 N                        | pass         |
|    | Rearwards overturning (with back rest inclination) | number of discs – 13<br>(130 kg) – 1 cycle                            | pass         |

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