



VÝSKUMNÝ ÚSTAV PAPIERA A CELULÓZY a.s.
PULP AND PAPER RESEARCH INSTITUTE
Qualified laboratory of CEPI-CTS
STN EN ISO 9001 : 2009
Sekcia Lignotesting
Skúšobné laboratórium materiálov a produktov

Mechanical Testing Laboratory

TEST REPORT No. 00006/ 23 /2014



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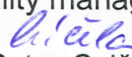
Applicant/Customer: **SEDASPORT s.r.o.**
Staromyjavská 1031/14
907 01 Myjava

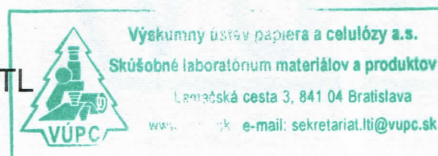
Test item: **Chairs for ranked seating- model KARAT**

Registration number of the report of receipt of test item: **06 /23/2014**


Date of delivery of test item: **July 14th 2014**

Tests performed by:


Zdenek Wiech
Quality manager of MPTL

Peter Cvičela
Technician



Checked and approval by:


Ing. Vladimír Ihnát, PhD.
Head of Material and Products
Testing Laboratory

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SCOPE

Range of tests was focused according to customer requirements: An assessment in accordance with **STN EN 12227: 2002. Table No. 1, Type of use-general, articles 6.14.** According to the requirements of foreign client, the customer requires to perform a testing up to 350,000 cycles.

1. PURPOSE OF THE TEST

Verification of a functionality of the folding mechanism of the seat during long-term use.

2. TEST SAMPLE DELIVERY

The samples were delivered by the customer.

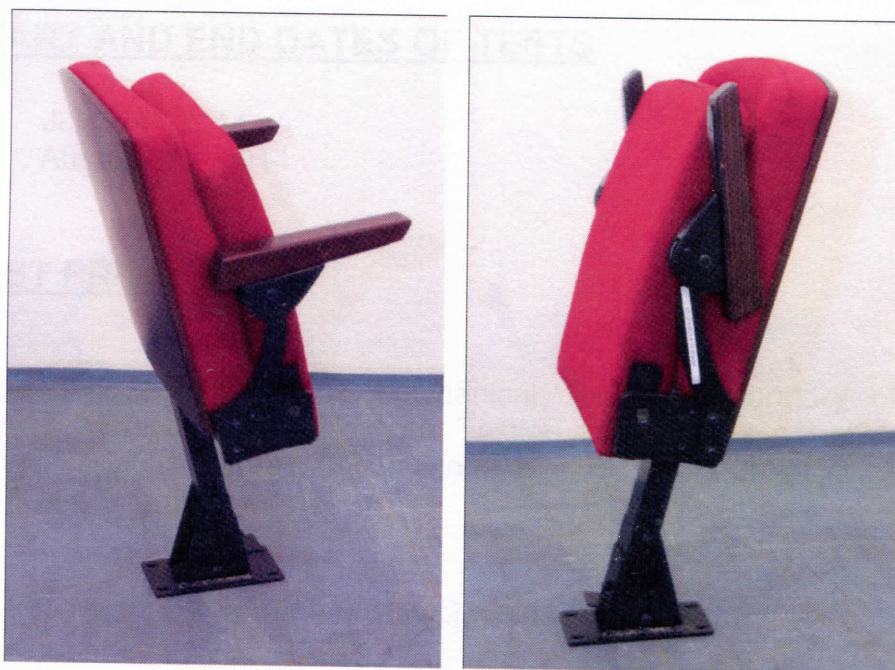


Fig.1-2: View on the sample of the folding seat KARAT

3. DATE OF RECEIPT OF THE TEST ITEM

Subject of the test was delivered by client. Report of receipt of test item: 06/23/2014 from July 14th 2014.

4. SUBJECTS OF THE TESTS

The folding seat, model KARAT – sample, where all tests given in Test report No. 00001/23/2014 dated from February 2nd 2014 were carried out, was delivered to the test.

Subject of the testing was made of the following materials:

- Steel anchor feet, folding metal leg with possibility of armrest attachment
- Seat and backrest part of the chair is made of molded plywood, polyurethane foam and upholstery
- Metal parts are finished with powder paint.

5. ASSEMBLING

The chair KARAT was anchored to a testing floor of a testing equipment according to a design drawing.

6. START AND END DATES OF TESTS

Start date: July 14th 2014
End date: August 25th 2014

7. TEST PROCEDURE

The sample was tested in the Mechanical Testing Laboratory of accredited Laboratory of Materials and Products Testing, VÚPC, a.s., Bratislava, section Lignotesting in related laboratory conditions $\varphi = 55 \pm 5\%$ (relative humidity) and $T = 23 \pm 2 \text{ }^\circ\text{C}$ (temperature).

List of test equipments and measuring instruments:

List of test equipments used:

Name of test equipment	Registration metrological number
Universal test equipment for testing of furniture	SZ – 2.05/05

7.1 Construction

Overall checking of the completeness and compliance with security requirements for the construction of the chair for ranked seating are performed. All screw connections and welds are visually checked.

8. TESTS RESULTS

8.1 Loading tests

N° of the test subject	Test	Loading	3	Measured/Found	Type of the test	Evaluation
	Use		General			
1 Karat	6.14 Tipping Seat Operation Test	cycles	(50000 according to standard) 350 000 cycles	Without damage, cracks, fractures or release. Without loss of functionality of the folding mechanism of the seat and the foot anchoring mechanism.	AS	<u>complied</u>

The seat part of the chair is a folding part of the chair unlike the backrest, so this part was tested. It was tested up to 350 000 cycles, exceeding a limit of the standard, according to the customer requirement.

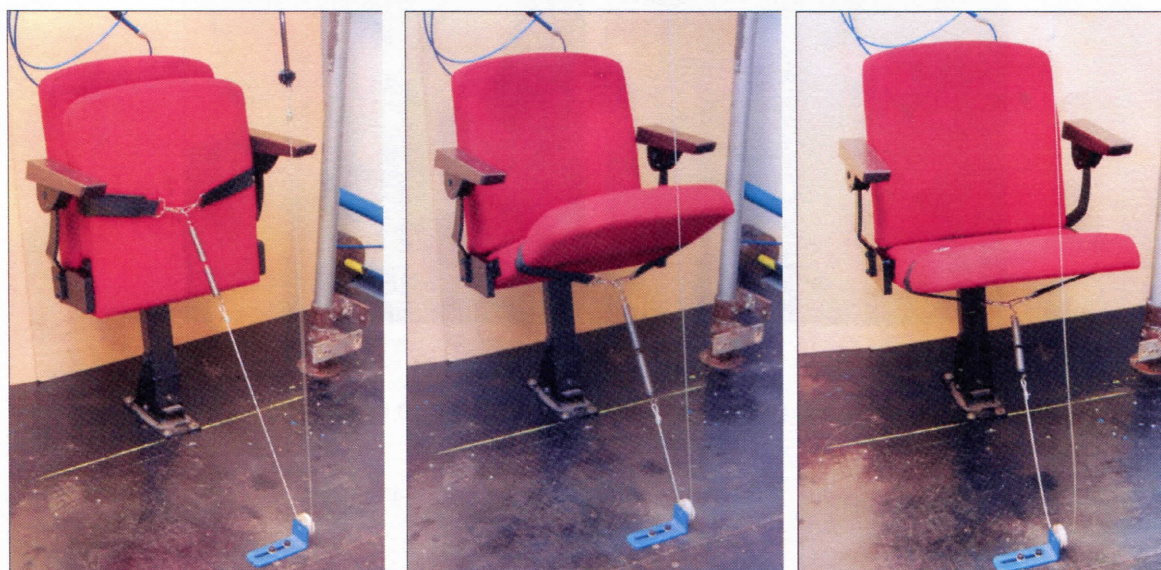


Fig.: 3. - 5. View on the test of chair KARAT

The functionality of the folding mechanism and locking mechanism of the chair has been verified after the test on chair of ranking seating. No disruption was appeared.

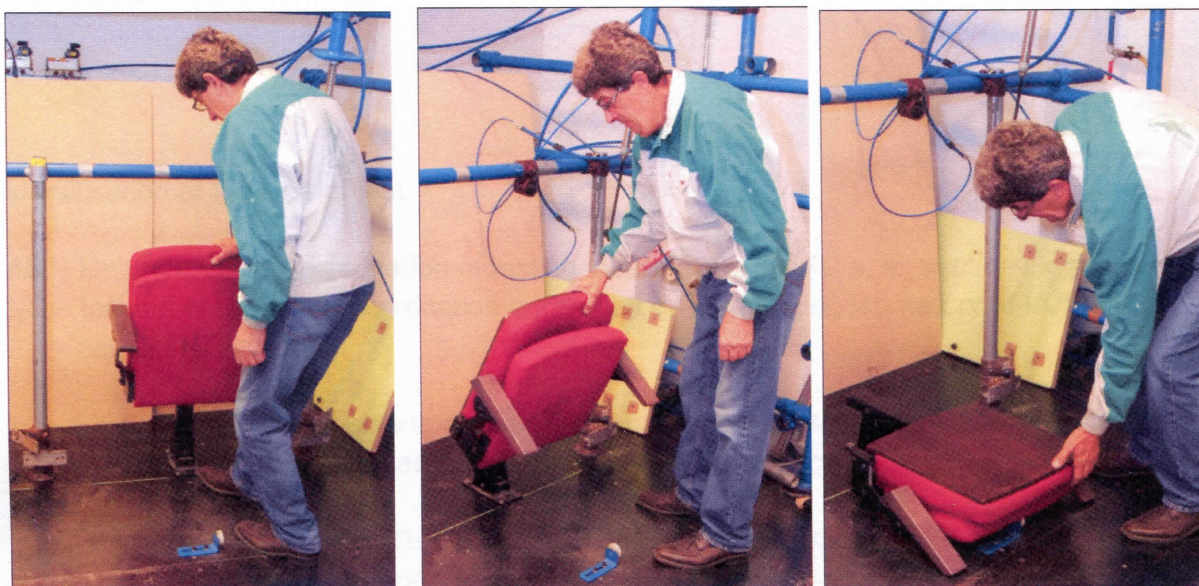


Fig.: 6. – 8. Verification of a functionality of the folding mechanism

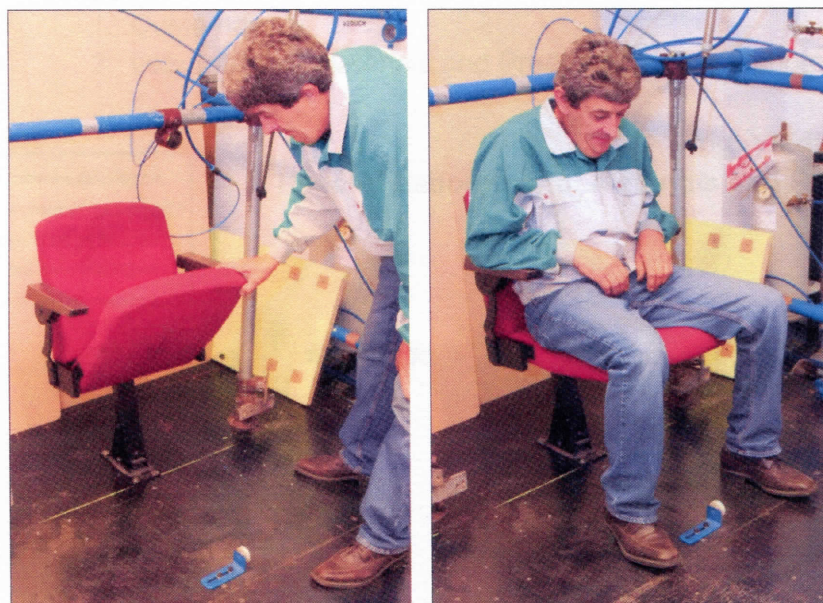


Fig.: 9. – 10. Verification of a functionality of the folding mechanism after the test

The test report states the examination beyond the requirements of standard STN EN 12727: 2002.

All tests according to STN EN 12727: 2002 are given in Test report No. 00001/23/2014 dated from 21/02/2014.

Identification of the type of test:

- AS** – test in range of accreditation of testing laboratory of VÚPC a. s., section Lignotesting
NS – test out of range of accreditation performed on own testing laboratory of VÚPC a. s., section Lignotesting

Note: Uncertainties of instruments and measurement were taken into account when an evaluation comes into force.

Warning: The test results do not replace any other documents required by the authorities of the state supervision in accordance with relevant regulations.

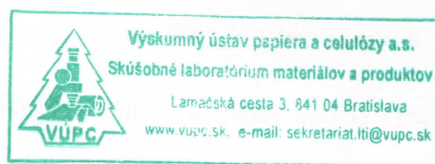
Copy sent to:

1. Customer
2. Laboratory of Materials and Products Testing Lignotesting



Ing. Vladimír Ihnát, PhD.

Head of Laboratory of Materials and Products Testing



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Test report No. 00006/23/2014

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