



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. 00005/ 23 /2014



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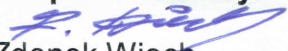
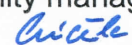
Applicant/Customer: **SEDASPORT s.r.o.**  
**Staromyjavská 1031/14**  
**907 01 Myjava**

Test item: **Chairs for ranked seating- folding model STEEL without upholstery**


Registration number of the report of receipt of test item: **05 /23/2014**

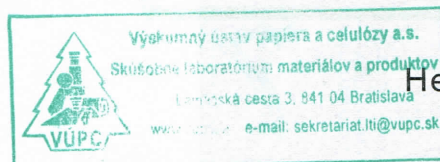
Date of delivery of test item: **June 24<sup>th</sup> 2014**

### Tests performed by:

  
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### Checked and approval by:

  
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## **SCOPE**

Range of tests was focused according to customer requirements: An assessment in accordance with **STN EN 12227: 2002. Tab. No. 1, Type of use-general, articles 6.3, 6.9 and 6.11 only.**

## **NAME OF THE TESTS**

### ***- Safety requirements for the product***

The test procedure was performed in accordance with **STN EN 12227: 2002: Furniture. Ranked seating, articles 6.3, 6.9 and 6.11.** Test methods and requirements for strength and durability.

## **1. PURPOSE OF THE TEST**

Verification of basic safety features and durability of a construction in range of tests required.

## **2. TEST SAMPLE DELIVERY**

The samples were delivered by the customer.



Fig.1: View of the packed folding seat Steel without upholstery

### **3. DATE OF RECEIPT OF THE TEST ITEM**

Subject of the test was delivered by client on June 24<sup>th</sup> 2014. Report of receipt of test item: 05/23/2014 from June 24<sup>th</sup> 2014.

### **4. SUBJECTS OF THE TESTS**

A folding seat Steel designed for ranked seating for stadiums and sports halls were delivered to the tests.

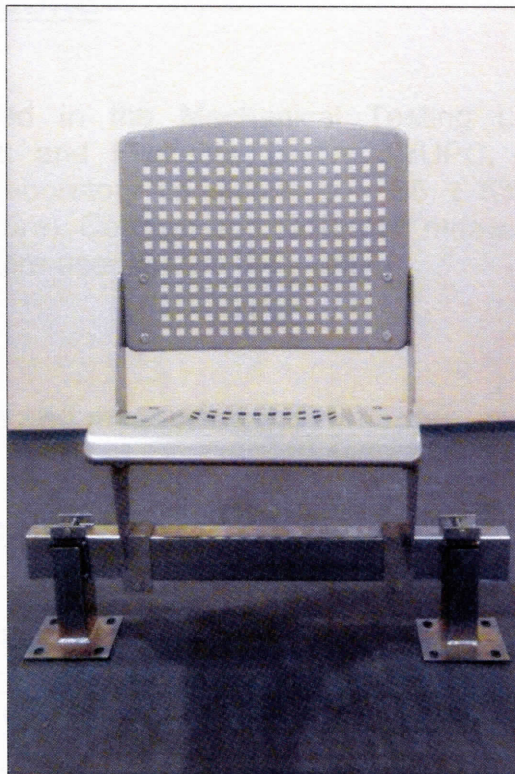


Fig.2: Front view at the folding seat Steel

Subject of the testing was made of the following materials:

- Steel anchor-leg R, L
- The construction of the seat consists of perforated steel sheet
- A finishing of metal parts is performed using powder paints.

## 5. ASSEMBLING

The chair Steel was anchored to a testing floor of a testing equipment.

## 6. START AND END DATES OF TESTS

Start date: June 26<sup>th</sup> 2014

End date: July 7<sup>th</sup> 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). Certified and calibrated measuring instruments and test equipments – weights were used for the tests only.

### List of test equipments and measuring instruments:

List of test equipments used:

Name of test equipment	Registration metrological number
Universal test equipment for test of durability and stability	SZ – 2.05/02
Universal test equipment for testing of furniture	SZ – 2.05/05
Test equipment for mass determination	SZ – 2.05/03 Certificate of calibration 0309/312.07/11

List of measuring instruments:

Name of instrument	Registration metrological number	Number of Certificate of calibration
Measuring tape	DL - 02/23	0750/312.06/14
Set loading pad	PSZ - 21/23	-

### **7.1 Safety requirements for the product**

Subject of the testing is assembled on a horizontal pad and its evaluation according **STN EN 12727:2002** is provided.

### **7.2 Construction**

The subject is placed on the floor. Overall checking of the completeness and compliance with security requirements for the construction of the chair for ranked seating are performed. All connections – welds are visually checked.

### **7.3 Edges, corners and tips**

Tests of edges, corners and sharp tips are carried out visually on the test subject according to the requirements of standard **STN EN 12727: 2002**.

### **7.4 Weight of the chair**

Number of the test subject	Model	Weight
05/23/2014/ 1	STEEL	14,25 kg



Fig.3 : Weighting of the sample

**8. Tests results**

(Tab No.1 STN EN 12727: 2002)

**8.1 Loading tests**

N° of the test subject	Test	Loading	3	Measured/Found	Type of the test	Evaluation
	Use		General			
1 STEEL	6.3. Seat and Back Static Load Test	Seat Force N	10 x 2000N	Without damage, cracks, fractures or release	AS	<u>complied</u>
		Back Force N	10 x 760N			

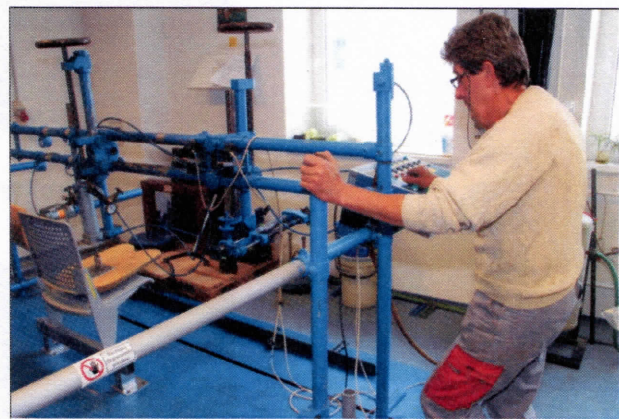
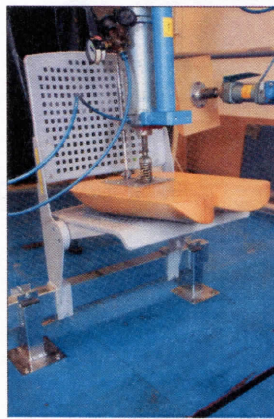
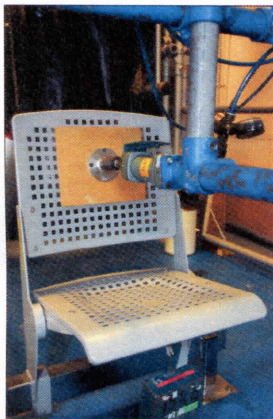


Fig 4, 5 and 6: View on static test of seat and back of the Steel

N° of the test subject	Test	Loading	3	Measured/Found	Type of the test	Evaluation
	Use		General			
1 STEEL	6.9. Seat Front Edge Durability Test	Cycle Seat Force N	150 000 cycles 950N	Without damage, cracks, fractures or release	AS	<u>complied</u>

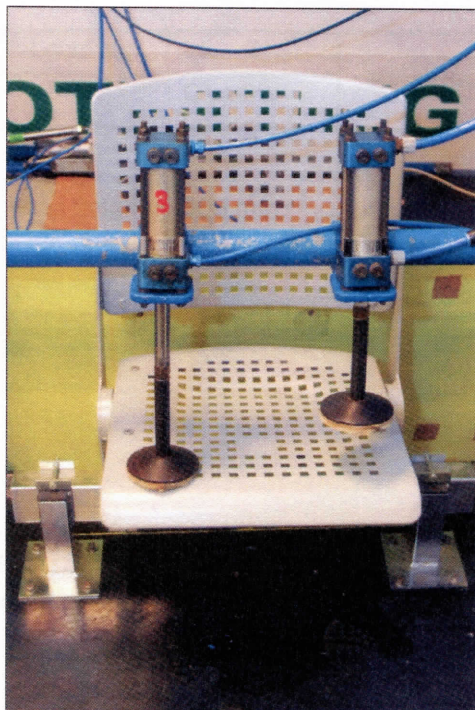


Fig.7: View of testing of the front edge of seats

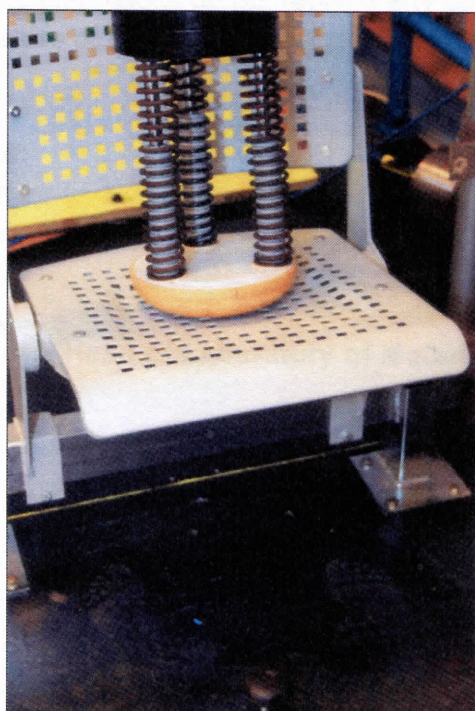


Fig.8: Impact test of the seat

N° of the test subject	Test	Loading	3	Measured/Found	Type of the test	Evaluation
	Use		General			
1 STEEL	6.11. Seat Impact Test	drop height mm	300 mm x10 times	Without damage, cracks, fractures or release	AS	<u>complied</u>

Identification of the type of test:

**AS** – test in range of accreditation of testing laboratory of VÚPC a. s., section Lignotesting

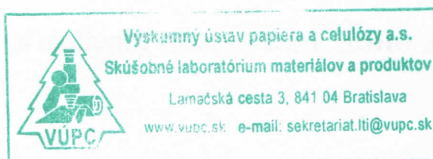
**NS** – test out of range of accreditation performed on own testing laboratory of VÚPC a. s., section Lignotesting

**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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