



Industrie Service

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Mehr Wert.**

Test Report

Order no.: 741841
Employee in charge: Rußmann

Client:
Otto Sport und Reitplatz GmbH
Am Umspannwerk 6
90518 Altdorf

Date of order: 1 March 2006

Order reference: Mr Otto

Purpose of order: Examination of the resilience and/or shock
absorption of equestrian flooring

Date: 19 October 2006

Our reference:
IS-ATA5-MUC/rß-kr

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Report No. 741841

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The test results refer exclusively
to the units under test..

Purpose of test:

Determination of the resilience of the riding surface and the shock absorption of a riding arena footing by conducting a compression test.

Description of the ready-to-use flooring:

Equestrian arena flooring is built up as follows:

- Riding surface (a sand-fibre-veil mixture)
- Separating layer (thermoplastic equestrian mat)
- Layer of stone chippings (base)

Test process:

The above flooring structure was laid into a tensile testing machine. The area of the indenter on the force sensor corresponds to that of two horseshoes. The compression test was carried out with a maximum load of 600 kg.

The individual elements (riding surface, separating layer, layer of stone chippings) were then examined in TÜV SÜD's Institute for Plastics for verification.

Result:

The resilience of the riding surface (sand-fibre-veil mixture) is illustrated in diagram 2 of Annex 1. The shock absorption of the equestrian flooring is illustrated in diagram 1 of Annex 1.

In its condition as delivered, the equestrian flooring settled by approx. 40 %. Compression testing was then repeated under the same conditions. In this repeat test, the flooring, which had already been compressed by a load of approx. 600 kg, settled by only 10 % to 20 %.



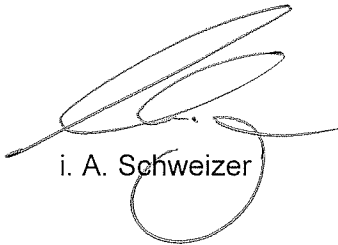
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Evaluation of results:

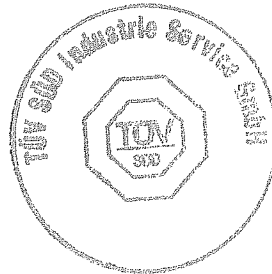
The tests described above have demonstrated that the structure of equestrian flooring described above ensures the required shock absorption effect.

Higher forces which may occur under real-life conditions can be derived from the diagrams included in Annex 1.

Institute for Plastics



i. A. Schweizer



Officially authorized expert

Signed Rußmann

Force distribution applied by two indenters on the equestrian flooring with Otto brand equestrian mats

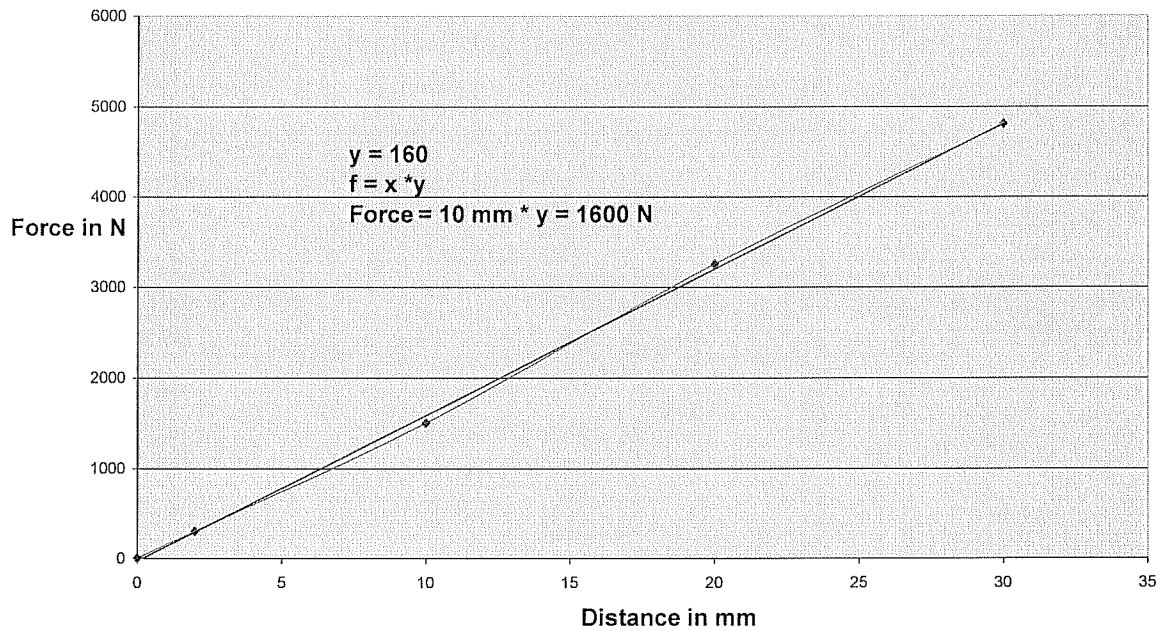


Diagram 1

Shock absorption effect of the equestrian flooring

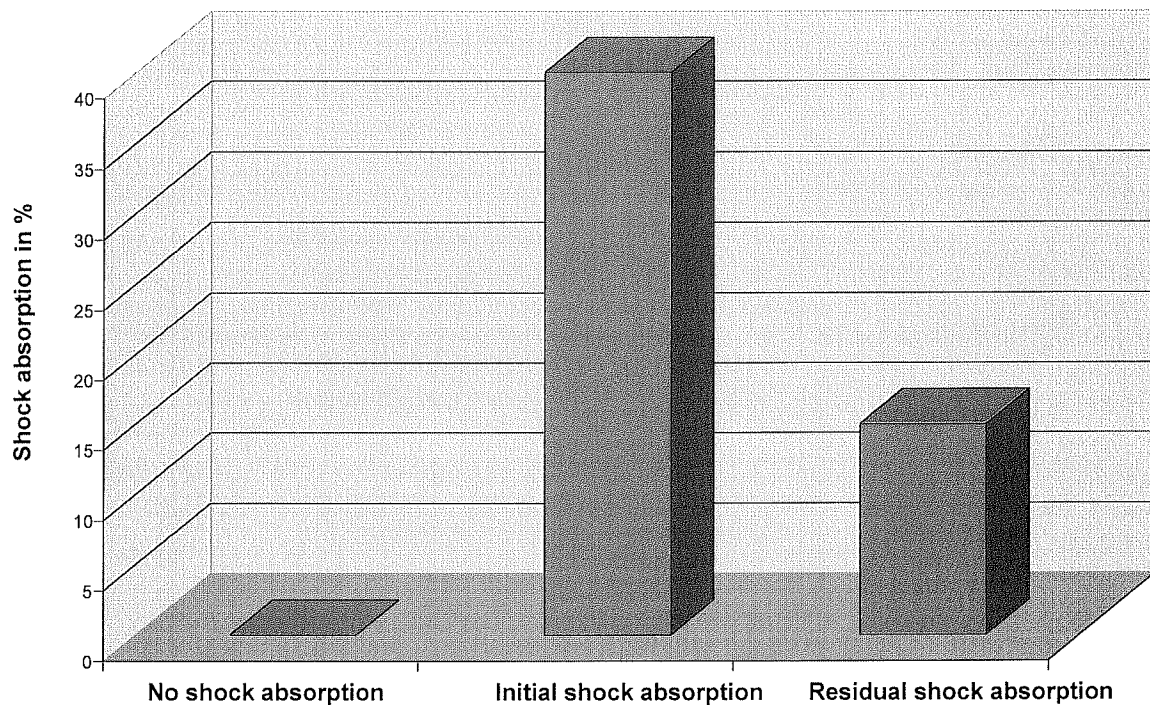


Diagram 2