ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СВИДЕТЕЛЬСТВО ◆ CERTIFICADO ◆ CERTIFICAT

Certificate

No: AL 96 11 26681 001

TÜV PRODUCT SERVICE

Saferider Australia Pty Ltd.

1 Earlville Qld Australia 4870
Australia

with production facilities
26680

is authorized to label the following products with the
certification mark A,B or L
as shown in the certification mark list. See also notes overleaf.

Product: **Steigbügel**

Model: **Saferider**

Parameters:
Sicherheitsauslösung: ca. 100 N
Auslösemechanismus: Kugelverrastet
Gewicht: 620 g
Masse innen: Breite: 117 mm
Höhe: 95 mm

The product meets the requirements of the Equipment Safety Law and was tested according to:

DIN 7923 (Druckmanuskript)
und Prüfprogramm der TÜV PS

Report No: 01255600201

Released with the above certificate number by the certification body of TÜV PRODUCT SERVICE GMBH.

Department: MUCMED3 / fi
Date: 11-19-1996

Translation of the German original.

(34)

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Technical Report No. 01.255.6.022.01

January 8, 1997

Client:	Saferider Australia Pty. Ltd. Mr. Zillmer 1, Earlville Old Australia 4870
Manufacturing place:	Walter Deritend a.s. Radlicki 227/107 Cz-15801 Praha 5
Test object:	Saferider safety stirrups
Test specifications:	
Purpose of examination:	Test according to recognized technical principles in accordance with the German Equipment Safety Law
Test result:	positive

TÜV Product Service GmbH
Rehabilitation, Sports and Leisure Equipment
Ridlerstraße 31
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Phone: +49/89/50084-185; Fax: -316

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1 Purpose of the examination

The Saferider safety stirrups were to be tested on behalf of Saferider Australia in accordance with the essential requirements of the German Equipment Safety Law

2 Testing

The examination was carried out in the laboratories of TÜV Product Service GmbH, Munich and in the department for mounted police of the Bavarian State police. Testing was based on generally recognized technical principles, in particular the following standards:
- DIN 3100 - General principles for the safety design of technical products
- DIN-EN 7923 (not published) - Riding sports equipment, saddle attachment and feet mounts
- DIN/ISO 9462 - Alpine ski bindings

3 Description of the safety stirrup

A release mechanism has been integrated in a classically shaped stirrup. An inner stirrup in two parts combined with the outer stirrup forms a spring pincer release system. If the foot moves backwards the inner stirrup turns in the opposite direction to the outer stirrup. This turning causes the outer stirrup to be released so that the inner stirrup falls into two pieces. If the rider falls from the horse a fixed stirrup/saddle is thus prevented. It is impossible for the rider to get caught in the stirrup and to be dragged along by the horse.
The inside measurement of the stirrup are:

Width (foot support)	117 mm
Height (of the inner stirrup)	95 mm
Weight	620 gm

4 Testing and results of testing

4.1. Measurements and weight

The measurements were tested in accordance with the withdrawn standard DIN 7923. The stirrup with the release mechanism weighs 620 gm. The standard requires a minimum weight of 330 gm.

The stirrup strap eye of 35 mm is big enough.

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4.2. Strength test of stirrup according to DIN 7923:

4.2.1. Static test according to DIN 7923 item 7.1.3.1.

A tensile test was performed. The test sample was loaded with a load of 10 000 N. After the test no deformation or break was detected on the stirrup. The release mechanism functioned perfectly.

4.2.2. Test of the impact strength

The test was performed in accordance with DIN 7923 item 7.1.3.2..No breaks, fractures or other damage could be detected after testing.

4.3. Dirt resistance

A dirt test in accordance with DIN ISO 9264 was performed on the stirrup system. The test lasted 24 hours. The release mechanism was completely functional after the test (see attachment no. 1).

4.4. Release mechanism

The safety release operates when the stirrup is tilted at 90° to the stirrup strap. The tilting force required is 100 N if the mechanism is dry. No change in the tilting force was detected in the event of moisture or corrosion (see attachment 1). As demonstrated in the static test it is not possible for the safety mechanism to be inadvertently opened (without tilting of the stirrup).

4.4.1. Endurance test

An endurance test was carried out to test the long term resistance to wear of the two test samples. A total of 100 cycles were run through - a cycle includes tilting of 90° and the complete opening of the safety mechanism. No impairment of performance could be detected after the test (see attachment no. 1)

4.4.5 Type designation

There is no type designation on the stirrup. We would recommend that a type designation be marked beside the company logo.

5. Practical test

The practical suitability was tested by the department for mounted police of the Bavarian state police. Two pairs of stirrups were tested during training, cross country, jumping and patrols for a period of three months. No unintentional release of the safety system was established. The stirrup was judged to be functional and suitable for use. The officers found fault with the stirrup since it was two narrow for their uniform boots. It would be desirable to enlarge the width (foot rest) by approx. 15 mm to approx. 130 mm. In addition the riding instructor Mr Späth urgently advised that a stirrup foot rest covering of rubber or a similar material be supplied to prevent slipping in wet or cold weather. The height of the inner stirrup would then have to be increased by the height of the foot rest.

6. Assembly and operating instructions

The assembly and operating instructions are adequate. The assembly instructions that are important for the functioning are well described and illustrated. The written explanation about how to put the stirrup together again after it has been released are backed up with illustrations. When the operating instructions are reprinted the complete address of the manufacturer or his representative in the EU are to be included. Until this time we recommend that a sticker with the address be stuck into the instructions.

7. Production facility inspection

The initial inspection of the production facility of the Saferider stirrup took place at the company Walter Deritend, Radlicka 227/107, CR-15801 Prague on 24.09.96. The company has been certified according to EN ISO 9002 of 1994 by Lloyd's Register Quality Assurance. The quality system used during the manufacture of the stirrup complies with the regulations of the above standard. In order to clearly specify the quality of casting (surface quality) the test sample no. 4 was laid down as the limit sample for the maximum surface damage, marked with the manufacturer's company and put in safekeeping.

8. Summary:

The safety stirrup submitted by Saferider Australia was tested in accordance with the requirements of the Equipment Safety Law. In view of the results the safety stirrup can be labelled with the TÜV Product Service GmbH GS mark in accordance with the certificate no. AL 96 11 26681 001

TÜV PRODUCT SERVICE GMBH
Rehabilitation, Sports and Leisure Equipment

Klaus Schneider, Dipl.-Ing.

Project Manager

Herbert Fischer

Attachment No. 1

Table No. 1

Test sample no.	Release direction	Release conditions clean/dry	humid	dirty
3	A	100.2 N	98.0 N	...
3	B	87.3 N	...	...
4	A	78.0 N	...	...
4	B	67.5 N	...	...
1	A	122.0 N	...	125.5 N
2	A	...125.0 N	...	129.0 N

Release direction A = backwards turn
Release direction B = forwards turn