

date: 12.11.2018

reference: 18slo0476.doc

Certificate

This is to certify that the safety cups
provided by:

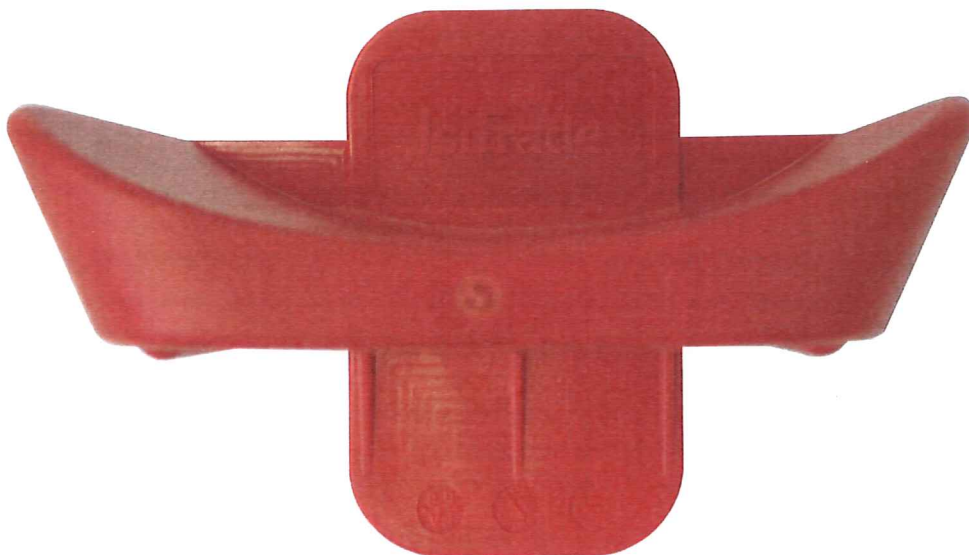
IsiTrade

Isabel Rothenberger

Eickumer Str. 123

32051 Herford

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "IsiTrade" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, November 2018

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Sebastian Lovski

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen

date: 31.01.2018

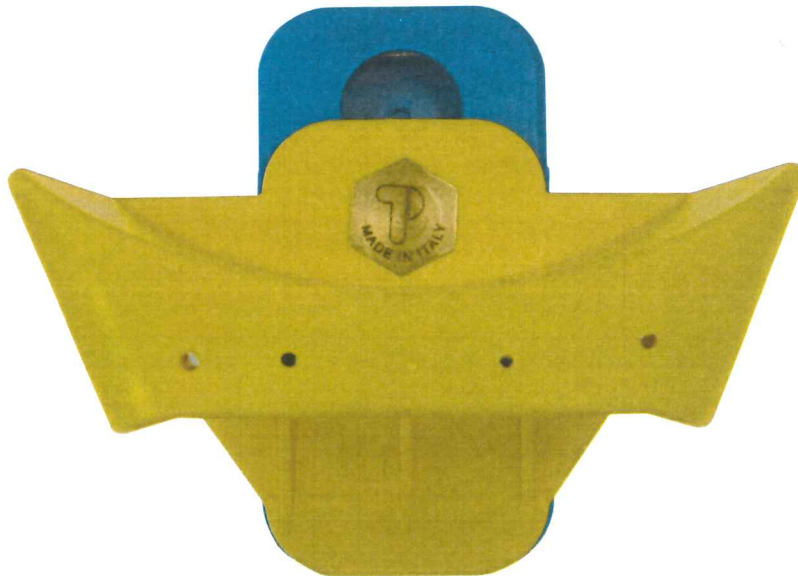
reference: 18slo0147.doc

Certificate

This is to certify that the safety cups
provided by:

Tecnoplastica Perletti Srl
Via S.Lorenzo in Cavellas 39
24060 Casazza (BG)

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "Special Support Steel H.18" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, January 2018

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Sebastian Lovski

Test of Safety – Cups: 1st delivery

Date: 31.01.2018
 Project Number: 173490
 Person in charge: SLO

1 Name and address of manufacturer:

Tecnoplastica Perletti Srl
 Via s.lorenzo in cavellas 39
 24060 Casazza (BG)
 Italia
 phone: +35 812000
 fax: +35 811750

Label of provided safety cup: “Special Support Steel H.18”

2 Supplied samples and drawing

- | | | |
|-------------------------------------|---|-----------------------------|
| a) 3 samples of Safety Cups | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| b) 1 original strip of 30 cm length | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| c) detailed drawing | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

3 Function of the Safety Cup

- | | | |
|---|---|-----------------------------|
| a) Basic concept O.K. | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| b) Vertical parallel shifting is proved | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| c) The moving out part is easy to be
removed in its initial position | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| d) Lubrication of moveable parts is possible | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| e) Safety – Cup is corrosion resistant | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

4 Dimensions of Safety Cups

- a) Dimensions follow the specification by drawing yes no
- b) Length of shallow holding part in
pole direction is at least 80 mm yes no
- c) Material thickness is at least 5 mm
(in case of steel) yes no

5 Weight of Safety Cups

- a) Total weight: 284 g
- b) Weight of moving parts: 180 g

6 Static release force

Sample 1: 128 daN

Sample 2: 128 daN

Sample 3: 137 daN

7 Summary

Test passed yes no

8 Comments

The static release force is within the required limit of 135 ± 15 daN (popular kg).

The length of shallow holding part in pole direction is at the minimum of 80 mm.



Dr.-Ing. Dipl.-Wirt. Ing. Roland Wohlecker
Manager Structural Analysis and Benchmarking



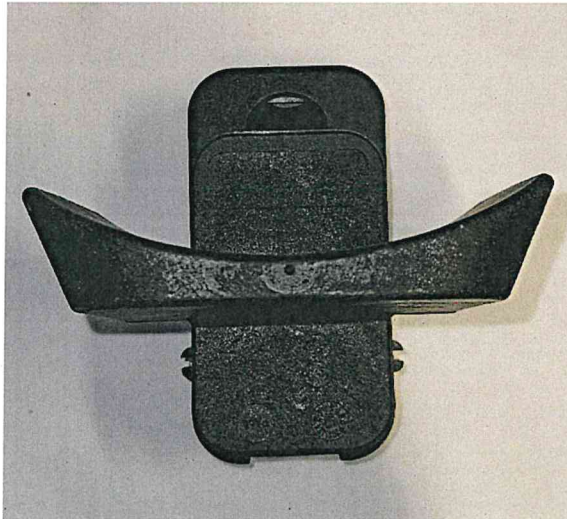
Dipl.-Ing. Sebastian Lovski
Body

Certificate

This is to certify that the safety cups
provided by:

Beck+Heun GmbH
Reinhold-Beck-Straße 2
35794 Mengerskirchen

have been tested at the Institute for Automotive Engineering (ika), RWTH Aachen University. The safety cups with the label "Beck+Heun" have fulfilled all requirements after being triggered 4 times and therefore they have been approved. The manufacturer has been instructed that all safety cups must be triggered 4 times before delivery and assures that he will follow this instruction. This certificate is only valid for this type of safety cup; any changes will require a new testing procedure.



Aachen, September 2022

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. (FH) Werner Kochems

date: 18.12.2018

reference: 18slo0484.doc

Certificate

This is to certify that the safety cups
provided by:

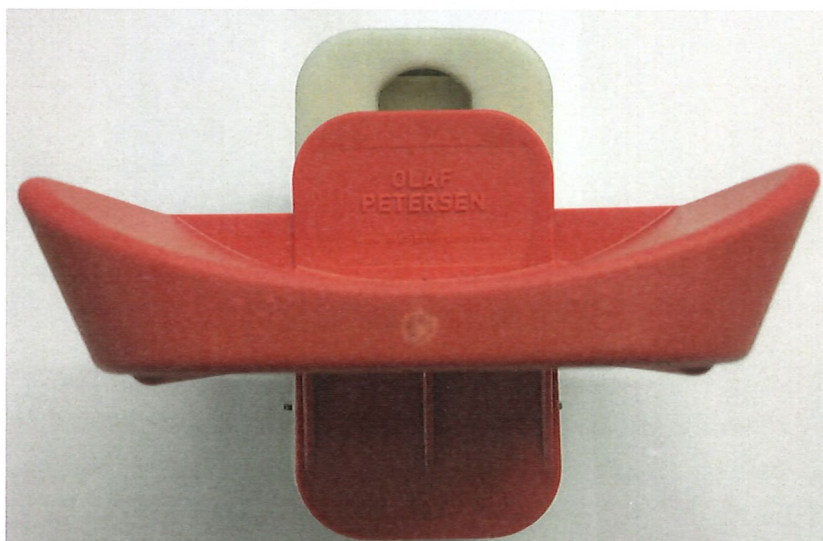
Olaf Petersen

Equestrian Jumps & Course Design


Eichbergstr. 4

82396 Paehl

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "Olaf Petersen" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, December 2018



Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director



Dipl.-Ing. Sebastian Lovski

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

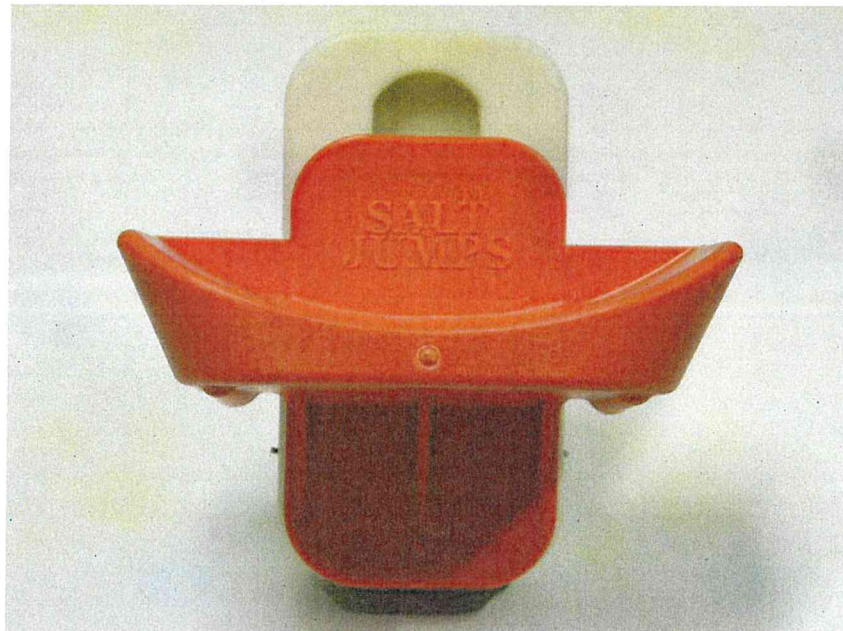
Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen

Certificate

This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG
Hagenfeldstrasse 11-13
75038 Oberderdingen

have been tested at the Institute for Automotive Engineering (ika), RWTH Aachen University. The safety cups with the label "SALT JUMPS 18" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cup; any changes will require a new testing procedure.



Aachen, December 2022

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

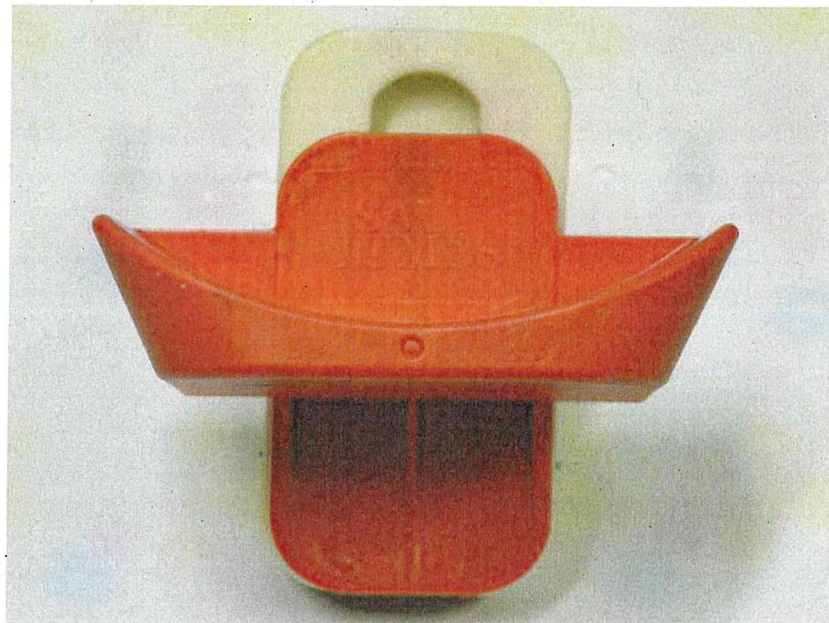
Dipl.-Ing. (FH) Werner Kochems

Certificate

This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG
Hagenfeldstrasse 11-13
75038 Oberderdingen

have been tested at the Institute for Automotive Engineering (ika), RWTH Aachen University. The safety cups with the label "SALT JUMPS 20" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cup; any changes will require a new testing procedure.



Aachen, December 2022

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. (FH) Werner Kochems



ika RWTH Aachen University Steinbachstraße 7 52074 Aachen

Philippe Maynier
Fédération Equestre Internationale
HM King Hussein I Building
Chemin des Délices 9
1006 Lausanne

Switzerland

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fax (office)

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our reference
phone

email
date

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Dipl.-Ing. Birger Klaus Queckenstedt
BQ, 11bq0018.docx
+49 241 80 25607

queckenstedt@ika.rwth-aachen.de
2011-02-21

Certification of safety cups

Dear Mr Maynier,

Safety System AB from Sweden asked us to test their safety cups. We have done the FEI approval testing to receive the certificate. In addition to the test of the static release force, the safety cups were inspected visually.

After these tests the safety cups received the certificate. A copy of the certificate is added to this letter.

If you have any questions, don't hesitate to contact me.

Kind regards,

p.p.
Dipl.-Ing. Daniel Wegener
Group Leader Vertical Dynamics and Durability

p.p.
Dipl.-Ing. Birger Klaus Queckenstedt
Chassis Department

date: 18.02.2011

reference: 11bq0029.docx

Certificate

This is to certify that the safety cups
provided by:

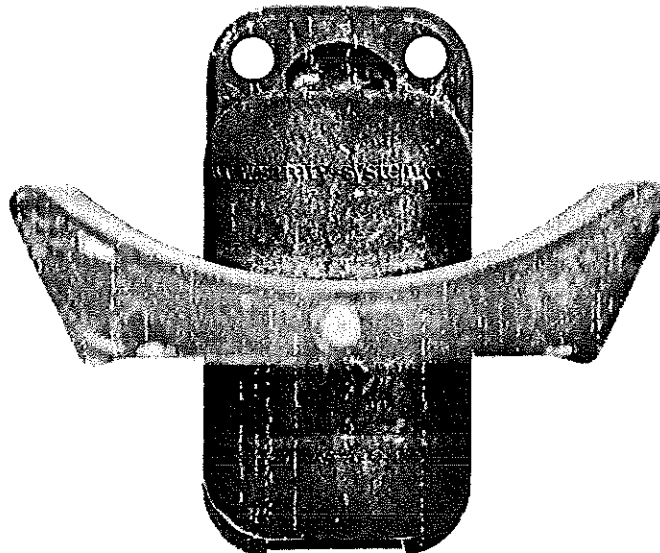
Safety-System AB

Tillinge Tibble

745 94 Enköping

Sweden

have been tested at the Institut für Kraftfahrzeuge Aachen. The safety cups with the label
"www.safety-system.com" have fulfilled all requirements and therefore they have been
approved. This certificate is only valid for this type of safety cups; any changes will require a
new testing procedure.



Aachen, February 2011

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Birger Queckenstedt
Chassis Department

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen

date: 19.01.2011

reference: 11bq0011.docx

Certificate

This is to certify that the safety cups
provided by:

Tecnoplastica Perletti srl

Via S. L. Cavellas, 39


24060 Casazza (BG)

Italy

have been tested at the Institut für Kraftfahrzeuge Aachen. The safety cups with the label
"Tecnoplastica Perletti" have fulfilled all requirements and therefore they have been
approved. This certificate is only valid for this type of safety cups; any changes will require a
new testing procedure.



Aachen, January 2011


Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director


Dipl.-Ing. Birger Queckenstedt
Chassis Department

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen

ika RWTH Aachen University Steinbachstraße 7 52074 Aachen

Tecnoplastica Perletti srl
Via S. L. Cavellas, 39
24060 Casazza (BG)

Italy

Institut für Kraftfahrzeuge
Steinbachstraße 7
D-52074 Aachen
Germany

phone (office)
fax (office)

name
our reference
phone

email
date

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office@ika.rwth-aachen.de
www.ika.rwth-aachen.de

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+49 241 80 22147

Dipl.-Ing. Birger Klaus Queckenstedt
BQ, 11bq0018.docx
+49 241 80 25607

queckenstedt@ika.rwth-aachen.de
2011-01-27

Certification of safety cups

Dear Sir or Madam,

You have sent us three samples of your safety cups with the label "Tecnoplastica Perletti – Made in Italy". We have done the FEI approval testing to receive the FEI certificate. In addition to the test of the static release force, the safety cups were inspected visually.

The release force is at the lower limit of the required force of 135 ± 15 daN (popular kg). The length of the shallow holding part in pole direction is at the minimum of 80 mm. Furthermore, there were no noticeable problems detected in the visual inspection.

After these tests the safety cups you sent us received the certificate. The certificate and the test report are added to this letter. Additionally we will send a copy of the certificate to the Fédération Equestre Internationale (FEI). Any technical changes will require a new testing procedure.

If you have any questions, don't hesitate to contact me.

Best regards,



p.p.
Dipl.-Ing. Daniel Wegener
Group Leader Vertical Dynamics and Durability



p.p.
Dipl.-Ing. Birger Klaus Queckenstedt
Chassis Department

Test of Safety – Cups:

Date: 19.01.2011
Project Number: 103251
Person in charge: BQ

1 Name and address of manufacturer (optional label):

Tecnoplastica Perletti s.r.l.
Via S. L. Cavellas 39
24060 Casazza, Italy
phone: +39-35-812000
fax: +39-35-811750

Label of provided safety cup: TECNOPLASTICA PERLETTI – MADE IN ITALY

2 Supplied samples and drawing

- a) 3 samples of Safety Cups yes no
- b) 1 original strip of 30 cm length yes no
- c) detailed drawing yes no

3 Function of the Safety Cup

- a) Basic concept O.K. yes no
- b) Vertical parallel shifting is proved yes no
- c) The moving out part is easy to be removed in its initial position yes no
- d) Lubrication of moveable parts is possible yes no
- e) Safety – Cup is corrosion resistant yes no

4 Dimensions of Safety Cups

- a) Dimensions follow the specification by drawing yes no
- b) Length of shallow holding part in
pole direction is at least 80 mm yes no
- c) Material thickness is at least 5 mm
(in case of steel) yes no

5 Weight of Safety Cups

- a) Total weight: 219 g
- b) Weight of moving parts: 130 g

6 Static release force

Sample 1: 120 daN

Sample 2: 120 daN

Sample 3: 120 daN

7 Summary

Test passed yes no

8 Comments

The static release force is within the required limit of 135 ± 15 daN (popular kg).
The length of shallow holding part in pole direction is at the minimum of 80 mm.



Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director



Dipl.-Ing. Birger Queckenstedt
Chassis Department

date: 16.03.2012

reference: 12ri0033.doc

Certificate

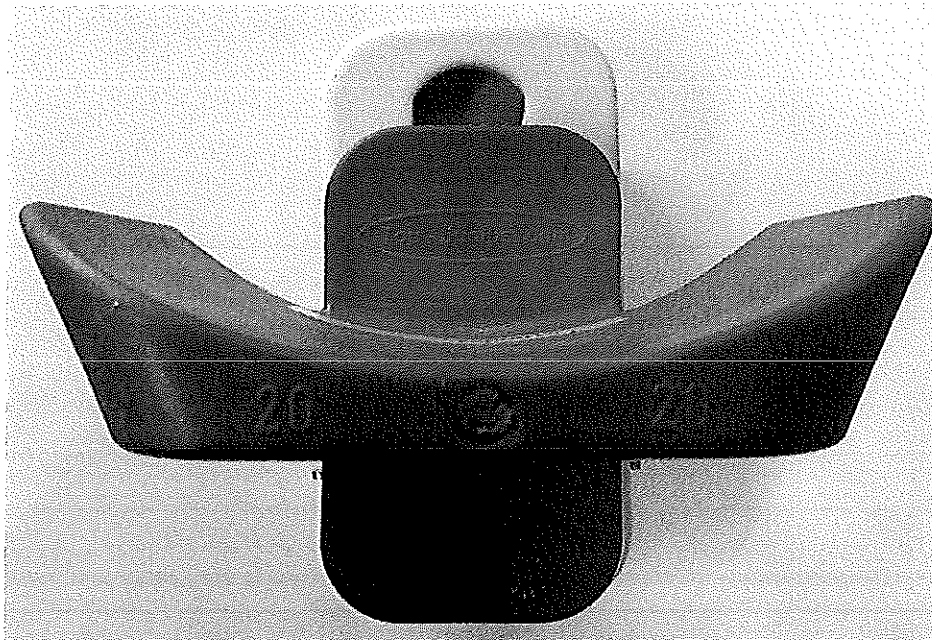
This is to certify that the safety cups
provided by:

Top-Jumps BVBA

Vekestraat 44

1910 - Kampenhout - Belgium

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "Top-Jumps" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, March 2012

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Matthias Rittinger
Chassis

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

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ika RWTH Aachen University Steinbachstraße 7 52074 Aachen

Fédération Equestre Internationale

Philippe Maynier

HM King Hussein I Building

Chemin des Délices 9

1006 Lausanne

Switzerland

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+49 241 80 22147

Dipl.-Ing. Matthias Rittinger
RI, 12ri0034.doc
+49 241 80 25607

rittinger@ika.rwth-aachen.de
2012-03-20

Certification of safety cups

Dear Mr. Maynier,

Mrs. Moens from Belgium asked us to test the safety cups with the label "Top-Jumps". We have done the FEI approval testing to receive the certificate. In addition to the test of the static release force, the safety cups were inspected visually.

After these tests the safety cups received the certificate. A copy of the certificate is added to this letter.

If you have any questions, don't hesitate to contact me.

Best regards



p.p.

Dipl.-Ing. Daniel Wegener

Manager Vertical Dynamics and Durability



p.p.

Dipl.-Ing. Matthias Rittinger

Chassis

date: 27.04.2011

reference: 11bq0081.docx

Certificate

This is to certify that the safety cups
provided by:

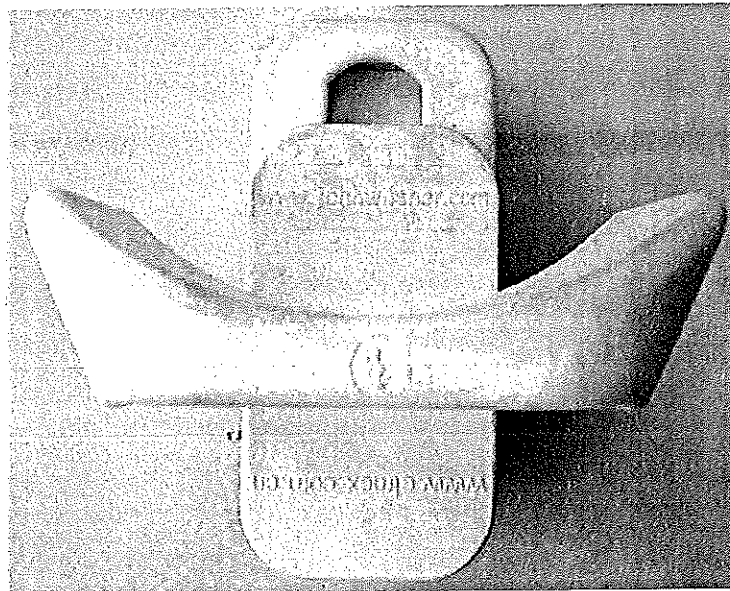
John Wilsher

P.O. Box 8418 East

Mount Gambier. 5291

South Australia

have been tested at the Institut für Kraftfahrzeuge Aachen. The safety cups with the label "www.johnwilsher.com" - "www.elmex.com.cn" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, April 2011

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Birger Queckenstedt
Chassis Department

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen



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Philippe Maynier
Fédération Equestre Internationale
HM King Hussein I Building
Chemin des Délices 9
1006 Lausanne

Switzerland

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Steinbachstraße 7
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+49 241 80 22147

Dipl.-Ing. Birger Klaus Queckenstedt
BQ_11bq0018.docx
+49 241 80 25607

queckenstedt@ika.rwth-aachen.de
2011-05-10

Certification of safety cups

Dear Mr Maynier,

John Wilsher from Australia asked us to test their safety cups. We have done the FEI approval testing to receive the certificate. In addition to the test of the static release force, the safety cups were inspected visually.

After these tests the safety cups received the certificate. A copy of the certificate is added to this letter.

If you have any questions, don't hesitate to contact me.

Kind regards,

p.p.
Dipl.-Ing. Daniel Wegener
Group Leader Vertical Dynamics and Durability

p.p.
Dipl.-Ing. Birger Klaus Queckenstedt
Chassis Department

Certificate

This is to certify that the safety cups
provided by

Potter Steel Service

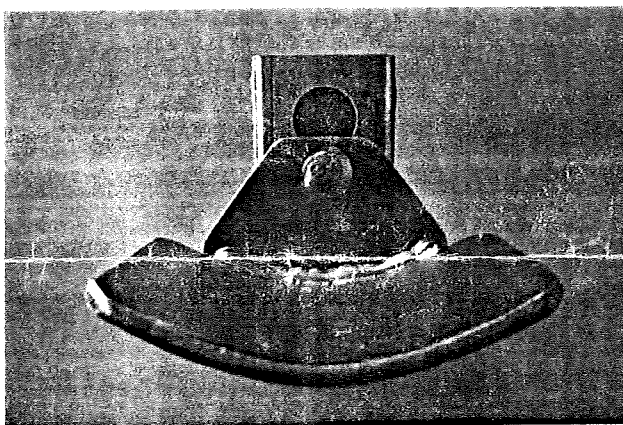
287 Collins Corner Rd.

N. Dartmouth

MA 02747-1305

USA

have been tested at the Institut für Kraftfahrwesen Aachen. The safety cups have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, August 2003

H. Wallentowitz

Univ.-Prof. Dr.-Ing. H. Wallentowitz

date: 23.07.2018

reference: 18slo0334.doc

Certificate

This is to certify that the safety cups
provided by:

Beijing VSVN International Equestrian Equipment Manufacturing CO., LTD

Room A02, 5F, Reignwood Center, No.8, YongAnDongLi

Jianguomenwai Ave, Chaoyang district, Beijing 100022 China

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "VSVN" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, July 2018

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Sebastian Lovski

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

Institut für Kraftfahrzeuge · RWTH Aachen University · Steinbachstr. 7 · 52074 Aachen



ika RWTH Aachen University Steinbachstraße 7 52074 Aachen

Fédération Equestre Internationale

Philippe Maynier

HM King Hussein I Building

Chemin des Délices 9

1006 Lausanne

Switzerland

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Steinbachstraße 7
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Germany

phone (office)
fax (office)

name
our reference
phone

email
date

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www.ika.rwth-aachen.de

+49 241 80 25600
+49 241 80 22147

Dipl.-Ing. Matthias Rittinger
RI, 12ri0022.doc
+49 241 80 25607

rittinger@ika.rwth-aachen.de
2012-02-14

Certification of safety cups

Dear Mr Maynier,

Mr Riel from Germany asked us to test the safety cups with the label "RIEL" and "CARO". We have done the FEI approval testing to receive the certificate. In addition to the test of the static release force, the safety cups were inspected visually.

After these tests the safety cups received the certificate. A copy of the certificate is added to this letter.

If you have any questions, don't hesitate to contact me.

Best regards

p.p.
Dipl.-Ing. Daniel Wegener
Manager Vertical Dynamics and Durability

p.p.
Dipl.-Ing. Matthias Rittinger
Chassis

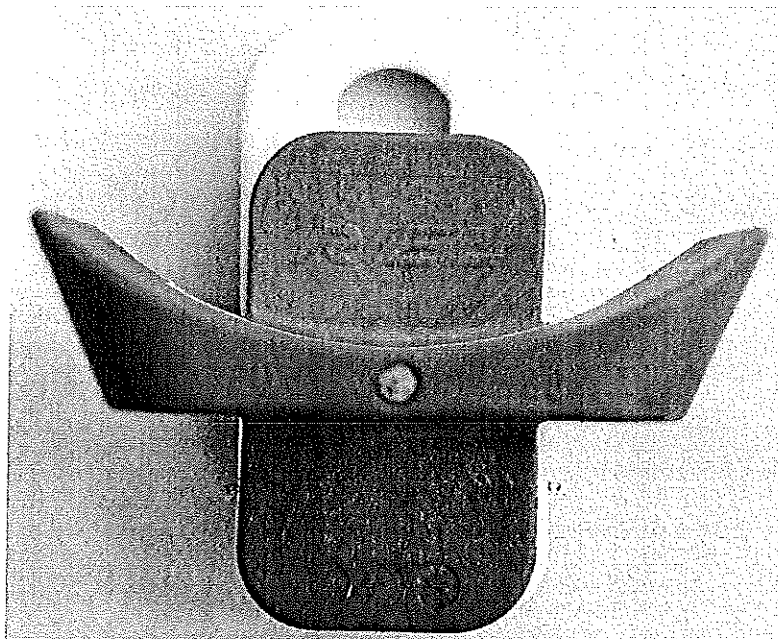
date: 06.02.2012
reference: 12ri0017.doc

Certificate

This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG
Hagenfeldstr. 11-13
75038 Oberderdingen

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "RIEL" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, February 2012

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Matthias Rittinger
Chassis

date: 06.02.2012

reference: 12ri0018.doc

Certificate

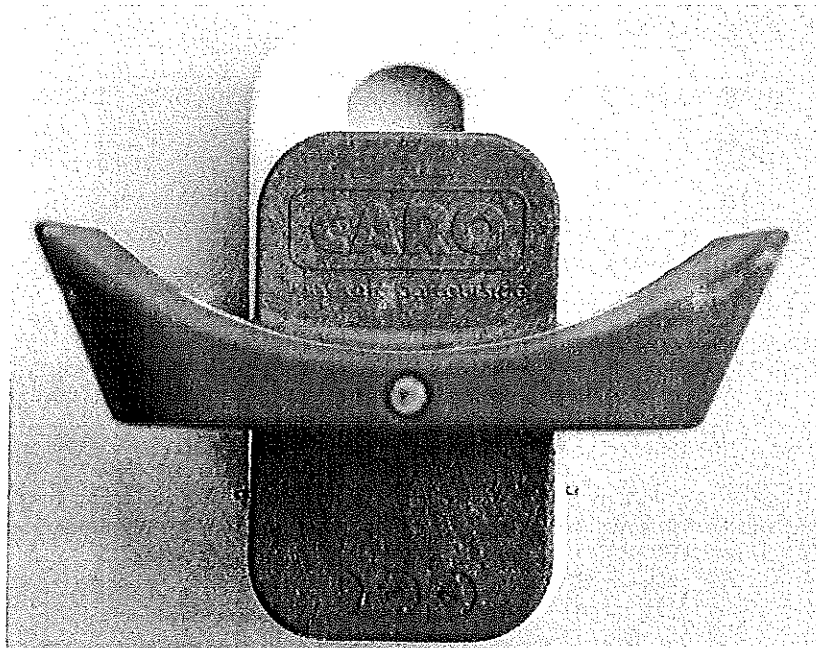
This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG

Hagenfeldstr. 11-13

75038 Oberderdingen

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "CARO" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, February 2012

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Matthias Rittinger
Chassis

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

Phone: +49 241 80 25600 · Fax: +49 241 80 22147

e-mail: office@ika.rwth-aachen.de · Internet: <http://www.ika.rwth-aachen.de>

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Fédération Equestre Internationale

Philippe Maynier

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Dipl.-Ing. Matthias Rittinger
RI, 12ri0022.doc
+49 241 80 25607

rittinger@ika.rwth-aachen.de
2012-02-14

Certification of safety cups

Dear Mr Maynier,

Mr Riel from Germany asked us to test the safety cups with the label "RIEL" and "CARO". We have done the FEI approval testing to receive the certificate. In addition to the test of the static release force, the safety cups were inspected visually.

After these tests the safety cups received the certificate. A copy of the certificate is added to this letter.

If you have any questions, don't hesitate to contact me.

Best regards

p.p.
Dipl.-Ing. Daniel Wegener
Manager Vertical Dynamics and Durability

p.p.
Dipl.-Ing. Matthias Rittinger
Chassis

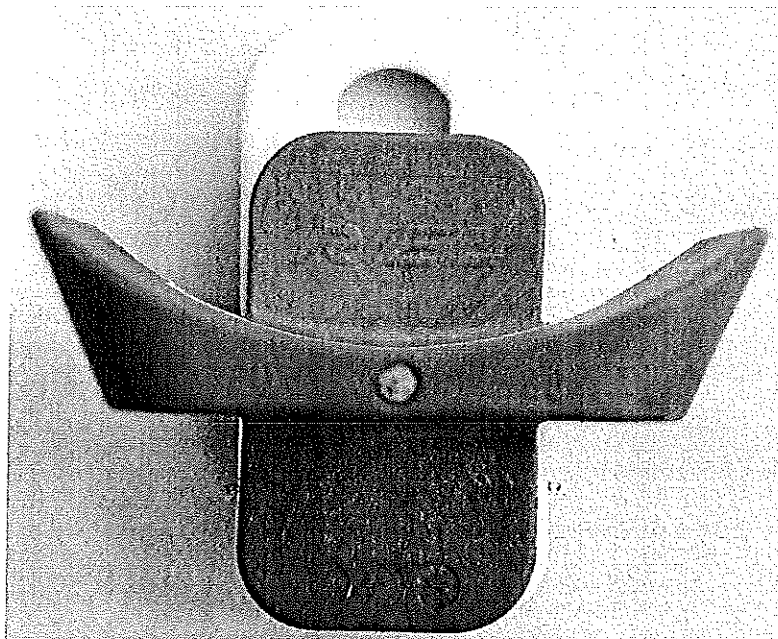
date: 06.02.2012
reference: 12ri0017.doc

Certificate

This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG
Hagenfeldstr. 11-13
75038 Oberderdingen

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "RIEL" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, February 2012

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Matthias Rittinger
Chassis

date: 06.02.2012

reference: 12ri0018.doc

Certificate

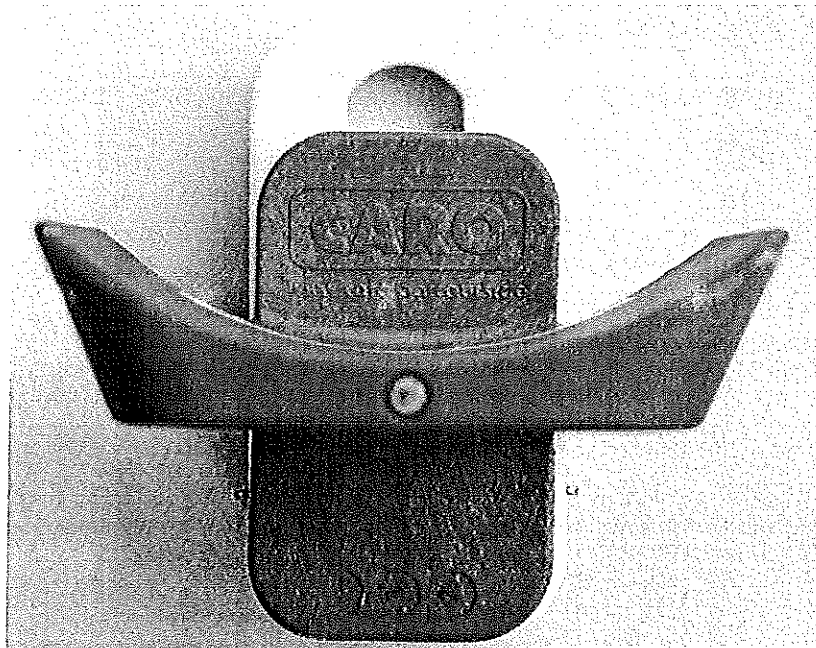
This is to certify that the safety cups
provided by:

Riel GmbH & Co. KG

Hagenfeldstr. 11-13

75038 Oberderdingen

have been tested at the Institut für Kraftfahrzeuge Aachen, RWTH Aachen University. The safety cups with the label "CARO" have fulfilled all requirements and therefore they have been approved. This certificate is only valid for this type of safety cups; any changes will require a new testing procedure.



Aachen, February 2012

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director

Dipl.-Ing. Matthias Rittinger
Chassis

Director: Univ.-Prof. Dr.-Ing. L. Eckstein

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