

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-PL-11165-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from: 13.09.2019**

Date of issue: 13.09.2019

Holder of certificate:

**TÜV Rheinland Kraftfahrt GmbH  
Mechanical Laboratory at the Technology Center Traffic Safety  
Am Grauen Stein, 51105 Köln**

Tests in the fields:

**Static and dynamic tests of passive and active safety on vehicles and components**

**Within the given testing field marked with \*, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:  
The free choice of standard or equivalent testing methods.**

**The listed testing methods are exemplary.**

**Within the scope of accreditation marked with \*\*, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.**

**The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.  
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

**Annex to the accreditation certificate D-PL-11165-01-00**

**1. Test procedures according to European and international regulations**

**1.1 Static tensile tests on components \***

UN-R 14 Rev. 5 - Amend. 4, Suppl. 7 to the 07 series of amendments, 2017-02	Uniform provisions concerning the approval of vehicles with regard to safety-belt anchorages (excluding Annex 7)
SAE AS8043B 2008-09	Restraint Systems for Civil Aircraft (Item 9.1 - 9.4; Assembly performance tests)
Taiwan 48-2 2016-01	Safety belt anchorage
ADR 34/02 2017-10	Child Restraint Anchorages and Child Restraint Anchor Fittings
FMVSS 207 2010-01	Seating systems
FMVSS 210 2017-10	Seat belt assembly anchorages
FMVSS 225 2017-10	Child restraint anchorage systems

**1.2 Static compression tests on components \***

UN-R 80 Rev. 2, Amend. 2, Suppl. 2 to the 03 series of amendments 2017-06	Uniform provisions concerning the approval of seats of large passenger vehicles and of these vehicles with regard to the strength of the seats and their anchorages (Annexes 1-3, 5 and 6)
UN-R 17 Rev. 5, Amend. 1, Suppl 3 to the 08 series of amendments 2016-01	Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints (6.4 Test of the performance of the head restraint)

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FMVSS 202a 2017-10	Head restraints (S 4.2.7 Backset retention, displacement and strength)
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Taiwan 49-1 2017-01	Seats
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**1.3 Fatigue test (including static functional testing)\***

UN-R 55 Rev. 2, Amend. 2, Suppl. 6 to the 01 series of amendments 2017-02	Uniform provisions concerning the approval of mechanical coupling components of combinations of vehicles (excluding Annex 5)
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97/24/EG 2003-08	Directive of the European parliament and of the council on certain components and characteristics of two or three-wheel motor vehicles (Chap.10 version of 2003/77/EG)
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Reg. (EU) 44/2014 2017-03	Vehicle construction and general requirements for the approval of two- or three- wheel vehicles and quadricycles (Annex V)
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§22a StvZO TA Nr. 31 1998-01	Components for the combination of vehicles Technical requirements for vehicle components in type testing
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Reg. (EU) 2015/208 Annex XXXIV 2016-06	Commission delegated regulation (EU) 2015/208 of 8 December 2014 supplementing Regulation (EU) No 167/2013 of the European Parliament and of the Council with regard to vehicle functional safety requirements for the approval of agricultural and forestry vehicles - Requirements on mechanical couplings, (last amended by Reg. (EU) 2016/1788 of 2016-07-14)
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2009/144/EG Annex IV 2013-05	Directive of the European parliament and of the council of 30 November 2009 on certain components and characteristics of wheeled agricultural or forestry tractors, (last amended by Directive 2013/8/EU of 2013-02-26)
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**1.4 Energy absorption tests \***

UN-R 12 Rev. 4, Amend. 3 Suppl. 4 to the 04 series of amendments 2016-06	Uniform provisions concerning the approval of vehicles with regard to the protection of the driver against the steering mechanism in the event of impact (Annex 1-5)
UN-R 17 Rev. 5, Amend. 1, Suppl. 3 to the 08 series of amendments 2016-01	Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints (Annex 6)
UN-R 21 Rev. 2, Amend. 2, Suppl. 3 to the 01 series of amendments 2003-01	Uniform provisions concerning the approval of vehicles with regard to their interior fittings (Annex 4)
FMVSS 202a 2017-10	Head restraints (S 4.2.5 Energy absorption)
FIA 2017 Formula One Technical Regulations 2016-04	16.5 Steering Column
Taiwan 50-1 2013-01	Head restraint
UN-R 22 Rev. 4, Amend.1, Suppl. 2 to the 05 series of amendments 2012-07	Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds (7.3 Impact absorbing tests)
DIN EN 1077 2007-11	Helmets for alpine skiers and for snowboarders
EN 1384:2012 + VG 01.040 2014-12	Protective helmets for equestrian activities
DIN EN 1078 2014-04	Helmets for pedal cyclists and for users of skateboards and roller skates

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Type of Test	Type of Test / Test parameter	Measuring range	Measurement uncertainty <sup>2)</sup>	Characteristic Test regulation
all	weight (scale)	0 - 1,2kg	class II	all
all	weight (scale)	0 - 150kg	class III	all
all	weight (scale)	0,005 - 1,5t/ 3t	< 0,05% v. EW	all
all	weight (scale)	0,2 - 10t/ 20t	Klasse IIII/ $\pm 30\text{kg}_{\text{max}}$	all
all	length (cable pull)	0 - 1.000mm	0,10% v. EW	all
all	length (LVDT)	$\pm 7,5\text{mm}$	< $\pm 0,5\%$ v. EW	all
all	length (LVDT)	$\pm 50\text{mm}$	< $\pm 0,5\%$ v. EW	all

<sup>2)</sup> equipment class respectively measuring accuracy of equipment / sensor

**Abbreviations used:**

ADR	Australian Design Rule
FIA	Fédération Internationale de l'Automobile, Technical rules
FMVSS	Federal Motor Vehicle Safety Standard, USA
LVDT	Linear Variable Differential Transformer
SAE	Aerospace Standards- SAE International
TA	Technical requirements of (German) StVZO
UN-R	United Nations Economic Commission for Europe-Regulation
v. EW	vom Endwert (of final value)

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