

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-19088-01-03 according to DIN EN ISO/IEC 17025:2018

Valid from: 03.01.2024

Date of issue: 03.01.2024

This annex is a part of the accreditation certificate D-PL-19088-01-00.

Holder of partial accreditation certificate:

TÜV Rheinland Lichttechnik GmbH
Rhinstraße 46, 12681 Berlin

with the location

TÜV Rheinland Lichttechnik GmbH
Rhinstraße 46, 12681 Berlin

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the field of:

Testing of vehicle lighting systems

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 within the flexible scope of accreditation.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Abbreviations used: see last page

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1. Testing of lighting equipment*

UN-R 3 SA 03 2019-10	Uniform provisions concerning the approval of retro-reflecting devices for power-driven vehicles and their trailers Without: Stability of the optical properties of retroreflectors according to Annex 9 (since no test regulations have yet been defined) and Color stability (weathering) according to Annex 11 (since no test regulations have been defined yet)
UN-R 4 SA 01 2019-10	Uniform provisions concerning the approval of devices for the illumination of rear registration plates of power-driven vehicles and their trailers
UN-R 6 SA 03 2019-10	Uniform provisions concerning the approval of direction indicators for power-driven vehicles and their trailers
UN-R 7 SA 03 2019-10	Uniform provisions concerning the approval of front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles (with the exception of motorcycles) and their trailers
UN-R 19 SA 05 2019-10	Uniform provisions concerning the approval of power-driven vehicle front fog lamps Without: Testing of resistance to atmospheric influences (weathering) according to Annex 6, Section 2.2.1.
UN-R 22 SA 06 2021-01	Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds Here: Tests on visors, inner visors and sun visors according to the relevant points in paragraphs 6.15, 6.16, 6.17, 7.8.3, Annex 10, Annex 11 (method (b) only), Annex 15, Annex 16, Annex 18 and Colorimetric and photometric tests on reflective parts according to paragraph 6.18.3. and 6.18.4.
UN-R 23 SA 01 2019-10	Uniform provisions concerning the approval of reversing and manoeuvring lamps for power-driven vehicles and their trailers

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<p>UN-R 27 SA 05 2019-10</p>	<p>Uniform provisions concerning the approval of advance warning triangles</p> <p>Without:</p> <ul style="list-style-type: none"> - Wind stability test in accordance with Annex 5, Section 10 - Testing the weather resistance test of the luminance factor and the color of the fluorescent material (weathering) in accordance with Annex 5, Section 12.1.
<p>UN-R 37 SA 03 2022-06</p>	<p>Uniform provisions concerning the approval of filament light sources for use in approved lamp units of power-driven vehicles and of their trailers</p> <p>Without:</p> <ul style="list-style-type: none"> - Check the position and dimensions of the luminaires in accordance with paragraph 3.5
<p>UN-R 38 SA 01 2019-10</p>	<p>Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles and their trailers</p>
<p>UN-R 45 SA 01 2022-06</p>	<p>Uniform provisions concerning the approval of headlamp cleaners and of power-driven vehicles with regard to headlamp cleaners</p>
<p>UN-R 46 SA 05 2022-10</p>	<p>Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices</p> <p>Annex 6</p> <p>Test method for determining reflectivity</p>
<p>UN-R 48 SA 08 2023-01</p>	<p>Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices</p>
<p>UN-R 50 SA 01 2019-10</p>	<p>Uniform provisions concerning the approval of front position lamps, rear position lamps, stop lamps, direction indicators and rear-registration-plate illuminating devices for vehicles of category L</p>
<p>UN-R 65 SA 00 2021-09</p>	<p>Uniform provisions concerning the approval of special warning lamps for power-driven vehicles and their trailers</p>
<p>UN-R 69 SA 02 2019-10</p>	<p>Uniform provisions concerning the approval of rear marking plates for slow-moving vehicles (by construction) and their trailers</p> <p>Without:</p> <ul style="list-style-type: none"> Testing of weather resistance (weathering) according to Annex 8, Section 1.1.

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UN-R 70 SA 02 2019-10	Uniform provisions concerning the approval of rear marking plates for heavy and long vehicles Without: Testing of weather resistance (weathering) according to Annex 8, Section 1.1.
UN-R 77 SA 01 2019-10	Uniform provisions concerning the approval of parking lamps for power-driven vehicles
UN-R 81 SA 00 2007-06	Uniform provisions concerning the approval of seats of rear-view mirrors to two-wheeled power-driven vehicles with or without side car, with regard to the mounting of rear-view mirrors on handlebars Appendix 5 Test method for determining the degree of reflectance according to paragraph 7.2.4
UN-R 87 SA 01 2019-10	Uniform provisions concerning the approval of daytime running lamps for power-driven vehicles
UN-R 88 SA 00 2007-06	Uniform provisions concerning the approval of retro-reflective tyres for two-wheeled vehicles
UN-R 91 SA 01 2019-10	Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers
UN-R 98 SA 02 2021-09	Uniform provisions concerning the approval of motor vehicle headlamps equipped with gas-discharge light sources Without: Appendix 5, Testing resistance to atmospheric influences (weathering), Section 2.2.1.
UN-R 99 SA 00 2019-05	Uniform provisions concerning the approval of gas-discharge light sources for use in approved lamps of power-driven vehicles (Annex 4 and 5) Without: - Check the position and dimensions of the electrodes, the arc and the shielding strips according to paragraph 3.5 - Ignition, starting and warm start properties according to paragraph 3.6

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<p>UN-R 104 SA 01 2019-10</p>	<p>Uniform provisions concerning the approval of retro-reflective markings for vehicles of category M, N and O</p> <p>Without: Appendix 8, Section 1.1. Testing resistance to weather</p>
<p>UN-R 112 SA 02 2020-05</p>	<p>Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing-beam or a driving-beam or both and equipped with filament lamps and/or light-emitting diode (LED) modules</p> <p>Without: Appendix 6, Section 2.2.1. Testing resistance to atmospheric influences (weathering)</p>
<p>UN-R 113 SA 03 2021-09</p>	<p>Uniform provisions concerning the approval of motor vehicle headlamps emitting a symmetrical passing beam or a driving beam or both and equipped with filament, gas-discharge light sources or LED modules</p> <p>Without: Appendix 6, Section 2.2.1. Testing resistance to atmospheric influences (weathering)</p>
<p>UN-R 119 SA 02 2019-10</p>	<p>Uniform provisions concerning the approval of cornering lamps for power-driven vehicles</p>
<p>UN-R 123 SA 02 2021-09</p>	<p>Uniform provisions concerning the approval of adaptive front-lighting systems (AFS) for motor vehicles</p> <p>Without: Appendix 6, Section 2.2.1. Testing resistance to atmospheric influences (weathering)</p>
<p>UN-R 128 SA 00 2022-06</p>	<p>Uniform provisions concerning the approval of light emitting diode (LED) light sources for use in approved lamp units on power-driven vehicles and their trailers</p> <p>Here:</p> <ul style="list-style-type: none"> - Testing luminous flux according to paragraph 3.5, appendix 4, paragraph 1 - Color test according to paragraph 3.6, appendix 4, paragraph 3 - Testing UV radiation according to paragraph 3.7 - Testing power consumption according to Annex 4, paragraph 4
<p>UN-R 148 SA 01 2023-01</p>	<p>UN Regulation on uniform provisions concerning the approval of light-signalling devices (lamps) for power-driven vehicles and their trailers</p>

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UN-R 149 SA 01 2023-01	UN Regulation on uniform provisions concerning the approval of road illumination devices (lamps) and systems for power-driven vehicles Without: Annex 8, Section 3.2.1 Testing resistance to atmospheric influences (weathering)
UN-R 150 SA 01 2023-01	UN Regulation on uniform provisions concerning the approval of retro-reflective devices and markings for power-driven vehicles and their trailers Without: Appendix 6, Part 6 - Testing resistance to weathering And Appendix 9, Section 5- Wind stability test
StVZO TA 6 29.02.1980	Lightbulbs Without: Check the position and dimensions of the luminaires
StVZO TA 7 27.07.1992	Headlights for high beam and symmetrical low beam
StVZO TA 7a 23.02.1994	Headlight with gas discharge lamp
StVZO TA 8 27.07.1992	Headlights for bicycles with auxiliary motors and mopeds up to and including 50 km/h
StVZO TA 8a 29.02.1980	Reversing lights
StVZO TA 9 02.01.1974	Marker lights
StVZO TA 10 02.01.1974	Lane keeping lights
StVZO TA 11 08.12.1983	Parking lights
StVZO TA 12 02.01.1974	Fog lights
StVZO TA 13 27.07.1992	Beacons for blue and yellow flashing lights (with rotating light)
StVZO TA 13a 27.07.1992	Beacons for blue flashing lights (with only one main beam direction (flashing headlights))
StVZO TA 13b 21.07.2006	Beacons for red flashing lights Flashing lights (with only one main beam direction (flashing headlights))

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StVZO TA 14 27.07.1992	rear lights
StVZO TA 14a 05.11.2003	Tail lights for motor vehicles and their trailers
StVZO TA 14b 05.11.2003	Tail lights for bicycles and their trailers
StVZO TA 14c 05.11.2003	Marker lights for hospital elevators with a design-related maximum speed of no more than 6 km/h and for bicycle trailers
StVZO TA 15 02.01.1974	Rear fog lights
StVZO TA 16 02.01.1974	Lights to secure protruding loads
StVZO TA 16a 23.02.1994	Portable flashing lights and red and white warning clothing to secure tail lifts
StVZO TA 17 02.01.1974	brake-lights
StVZO TA 18 23.02.1994	Reflector
StVZO TA 18a 08.12.1983	Reflective strips on bicycle tires
StVZO TA 18b 27.07.1992	Park warning signs
StVZO TA 19 08.12.1983	Warning triangles and warning lights Without: Testing the stability of the warning devices in accordance with paragraph (10)
StVZO TA 20 27.07.1992	Additional warning lights
StVZO TA 21 27.07.1992	Direction indicators
StVZO TA 22 02.01.1974	Lighting devices for official license plates
StVZO TA 22a 21.07.2006	Lighting devices for transparent official license plates

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StVZO TA 22b 31.01.2021	Stability of the warning devices Here: - the photometric and colorimetric tests according to paragraphs (5), (6) and (7) - the tests for protection against the ingress of water and solid foreign bodies in accordance with paragraph (13)
StVZO TA 23 05.11.2003	Headlights for bicycles
StVZO TA 24 15.11.2003	Bicycle alternators

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. (German institut for standardisation)
EN	European Standard
ISO	International Organization for Standardisation
IEC	International Electrotechnical Commission
UNECE	Economic Commission for Europe of the United Nations
StVZO	Road traffic registration regulations (Straßenverkehrs-Zulassungsordnung)

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