

6 August 2013

Agreement

Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions*

(Revision 2, including the amendments which entered into force on 16 October 1995)

Addendum 122 – Regulation No. 123

Revision 1 - Amendment 4

Supplement 4 to the 01 series of amendments – Date of entry into force: 15 July 2013

Uniform provisions concerning the approval of adaptive front-lighting systems (AFS) for motor vehicles



UNITED NATIONS

* Former title of the Agreement: Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958.

Paragraph 1.16., amend to read:

- "1.16. "Systems of different types" means systems which differ in such essential respects as:
- 1.16.1. The trade name or mark(s);
 - 1.16.2. The inclusion or elimination of components capable of altering optical characteristics/ photometric properties of the system;
 - 1.16.3. Suitability for right-hand or left-hand traffic or for both traffic systems;
 - 1.16.4. The front-lighting function(s), mode(s) and classes produced;
 - 1.16.5. The characteristic(s) of the signal(s), specified for the system;"

Insert new paragraphs 3.5. to 3.5.3., to read:

- "3.5. LED module(s) submitted along with the approval of the AFS:
- 3.5.1. Shall bear the trade name or mark of the applicant. This marking shall be clearly legible and indelible;
 - 3.5.2. Shall bear the specific identification code of the module. This marking shall be clearly legible and indelible.
This specific identification code shall ... from the same applicant.
 - 3.5.3. If the LED module(s) are non-replaceable, the markings for LED module(s) are not required."

Annex 2, amend to read:

"Annex 2

Examples of arrangements of approval marks

Example 1

<p>$a \geq 8$ mm (on glass) $a \geq 5$ mm (on plastic material)</p>

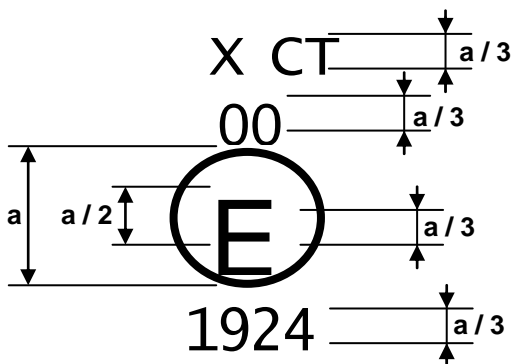


Figure 1

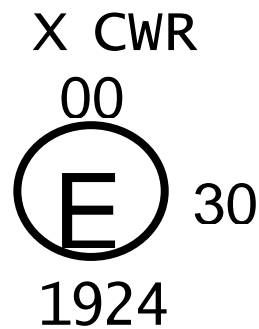


Figure 2

..."

Annex 4,

Paragraph 1.1.2.2., amend to read:

"1.1.2.2. Photometric test:

To comply with the requirements of this Regulation, the photometric values shall be verified in the following points:

Class C passing-beam and each specified other passing-beam class: 50V, B50L, and 25RR, if applicable.

Driving-beam, under neutral state conditions: point of I_{max} .

Another aiming may be carried out to allow for any deformation of the test sample base due to heat (the change of the position of the cut-off line is covered in paragraph 2. of this annex).

Except for points B50L, a 10 per cent discrepancy between the photometric characteristics and the values measured prior to the test is permissible including the tolerances of the photometric procedure. The value measured at point B50L shall not exceed the photometric value measured prior to the test by more than 170 cd."

Annex 9,

Paragraphs 1.1. to 1.5., amend to read:

"1. General provisions

1.1. The system or part(s) thereof shall be mounted on a gonio(photo)meter system.

1.2. The luminous intensity values shall be determined by means of a photoreceptor contained within a square of 65 m side and set up to a distance of at least 25 m forward of the centre of reference of each lighting unit perpendicular to the measurement axis from the origin of the gonio(photo)meter system.

1.3. During photometric measurements, stray reflections should be avoided by appropriate masking.

1.4. The luminous intensities are measured at a nominal distance of 25 m.

1.5. The angular coordinates are specified in degrees on a sphere corresponding to a gonio(photo)meter system as defined in Regulation No. 48. (see diagram 1).

Diagram 1"

Annex 11,

Paragraph 4.3.1.1., amend to read:

"4.3.1.1. For each existing class of passing-beam and for the driving-beam, a photometric measurement shall be carried out after one minute of operation of the respective lighting units and for the following test points:

Passing-beam: 25RR

Driving-beam: HV"
