Proposal for draft 08 series of amendments to UN Regulation No. 107 (as adopted by GRSG at its 112th session)

Submitted by the expert from OICA

The text reproduced below was prepared by the expert from OICA to amend UN Regulation No. 107 to include transitional provisions into the amendments adopted at GRSG-112 per document GRSG-112-35, to improve the accommodation and accessibility for passengers with reduced mobility. The modifications to the current text of the 07 series of amendments to UN Regulation No. 107 are marked in bold characters for new and strikethrough for deleted characters.

**I. Proposal**

*List of contents*, amend to read:

"Annex 5 ~~(Reserved)~~ **Requirements to establish the visual contrast**"

*Insert new paragraphs 2.44. to 2.48. (Definitions)*, to read:

"**2.44. *"Visual contrast"* (luminance contrast) means the brightness ratio between an object and its immediate background/surrounding which allows the object to be distinguished from its background/surroundings.**

**2.45. *"Reflectance"* ρ (rho) is the quantitative ratio between reflected light and the incident light on the surface of a flat material. It consists of various portions of "regular reflectance" and "diffuse reflectance".**

**2.46. *"Regular reflectance"* ρr is the reflection without diffusion in accordance with the laws of optical reflection as in a mirror.**

**2.47. *"Diffuse reflectance"* ρd is the ratio of the light that has undergone diffuse reflection to the incident light.**

**2.48. *"Luminous flux"* Φ (phi) describes the power of a light source.**"

*Paragraph 10, insert new paragraphs 10.19. to 10.23.*, to read:

**"10.19. As from the official date of entry into force of the 08 series of amendments, no Contracting Party applying this UN Regulation shall refuse to grant or refuse to accept UN type-approvals under this UN Regulation as amended by the 08 series of amendments.**

**10.20. As from 1 September 2020, Contracting Parties applying this UN Regulation shall not be obliged to accept UN type-approvals to the preceding series of amendments, first issued after 1 September 2020.**

**10.21. Until 1 September 2022, Contracting Parties applying this UN Regulation shall accept UN type-approvals to the preceding series of amendments, first issued before 1 September 2020.**

**10.22. As from 1 September 2022, Contracting Parties applying this UN Regulation shall not be obliged to accept type-approvals issued to the preceding series of amendments to this Regulation.**

**10.23. Contracting Parties applying this UN Regulation shall not refuse to grant UN type-approvals according to any** **preceding series of amendments to this UN Regulation or extensions thereof."**

*Annex 3*

*Paragraph 7.11.4.,* amend to read:

"7.11.4. ~~(Reserved)~~ **Handrails and handholds in toilets**."

*Insert new paragraph 7.11.4.1.*, to read:

"**7.11.4.1. If a toilet is fitted, a suitable handrail or handhold shall be provided in the interior**."

*Annex 5,* amend to read:

"Annex 5

~~(Reserved)~~ Requirements to establish the visual contrast

**1. The visual contrast C shall be established according to the following formula:**

**With: ρ1 = the reflectance of the material of the object to be seen**

**ρ2 = the reflectance of the area resp. material surrounding the contrast object**

**2. For determination of the reflectance values ρ1, ρ2 and ρd an integrating sphere according to CIE 38:1977 shall be used.**

**The reflectance shall be either read directly from the indicating instrument or calculated according to the following formula:**

**Where:**

**Φ1 = luminous flux of the incident light on the material sample;**

**Φ2 = luminous flux of the reflected light (reflectance).**

**2.1. The illumination angle of the luminous flux of the incident light on the sample Θi shall be equal to 8° ± 0.5°.**

**2.2. The luminous flux of the incident light on the sample shall be determined by using a diffuse reflectance standard calibrated by an accredited laboratory. The extended measurement uncertainty shall be lower than 3 per cent.**

**4. Example of an integrating sphere according to CIE 38:1977:**

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*Annex 8*

*Insert new paragraph 3.2.4.*, to read:

"**3.2.4. Each priority seat shall be provided with a 3.5 mm jack socket according to IEC 60603-11 to enable the priority seat occupant to have undisturbed access to any audible information**."

*Paragraphs 3.2.4. to 3.2.8. (former)*, renumber as paragraphs 3.2.5. to 3.2.9.

*Paragraph 3.3.3.*, amend to read:

"3.3.3. ~~(Reserved)~~ **These communication devices shall:**

**3.3.3.1. provide either a visual contrast of C ≥ 0.4 and a diffuse reflectance ρd of at least 0.5 according to Annex 5 or be white or yellow,**

**3.3.3.2. provide a tactile surface, i.e. protrude from the surrounding areas,**

**3.3.3.3. provide an audible and visible signal to confirm successful activation.**"

*Paragraph 3.5.,* amend to read:

"3.5. Floor slope

The slope of any gangway, access passage or floor area between any priority seat ~~or wheelchair space~~ and at least one entrance and one exit or a combined entrance and exit shall not exceed 8 per cent. **The slope of any gangway, access passage or floor area between any wheelchair space and at least one entrance and one exit or a combined entrance and exit shall not exceed 5 per cent**. Such sloping areas shall be provided with a slip-resistant surface. **However, in the gangway, access passages or floor area where differently directed slopes merge these limits may be exceeded provided the total amount of these areas is not greater than 25 per cent of the total amount of the area swept by the wheelchair to reach the wheelchair area**."

*Paragraph 3.6.1.*, amend to read:

"3.6.1. For each wheelchair user provided for in the passenger compartment there shall be a special area at least 750 mm wide and 1,300 mm long **and 1,400 mm high**. The longitudinal plane of the special area shall be parallel to the longitudinal plane of the vehicle and the floor surface of the special area shall be slip resistant and the maximum slope in ~~any~~ **forward and rearward** direction shall not exceed 5 per cent. **In the lateral direction the slope shall not exceed 3 per cent. However, at the rear end of the wheelchair area where differently directed slopes merge these limits may be exceeded provided the total amount of these areas is not greater than 25 per cent of the wheelchair area. Furthermore, i**n the case of a rearward facing wheelchair complying with the requirements specified in paragraph 3.8.4., the slope in the longitudinal direction shall not exceed 8 per cent provided that this slope inclines upwards from the front end to the rear end of the special area.

In the case of a wheelchair space … as shown in Annex 4, Figure 22."

**II. Justifications**

1. GRSG-112 considered document ECE/TRANS/WP.29/GRSG/2016/20 tabled by Germany and adopted it as amended by document GRSG-112-35.
2. OICA was tasked to prepare a document for consideration and final adoption at the 113th GRSG session, including the proposed transitional provisions (i.e. June 2020 for new types of vehicles and June 2022 for all existing types).
3. The transitional provisions proposed under paragraphs 10.19. to 10.23. are taken from the new general guidelines ECE/TRANS/WP.29/2017/107, taking into account Revision 3 of the 1958 Agreement.