



Economic and Social Council

Distr.: General
22 August 2024

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

194th session

Geneva, 12–15 November 2024

Item 4.7.3 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRSG

Proposal for 01 Series of Amendments to UN Regulation No. 167 (Vulnerable Road Users Direct Vision)

Submitted by the Working Party on General Safety Provisions*

The text reproduced below was adopted by the Working Party on General Safety Provisions (GRSG) at its 127th session (ECE/TRANS/WP.29/GRSG/106, para. 18). It is based on ECE/TRANS/WP.29/GRSG/2024/6, as amended by annex V to the report and on ECE/TRANS/WP.29/GRSG/2024/26 not amended. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their November 2024 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



Insert new paragraph 2.9.4., to read:

- "2.9.4. "Subsection Frontal Visible Volume (SFVV)" is defined as a portion of the assessment volume that includes the volume directly in front of the vehicle, between the offside and nearside planes."

Paragraphs 2.13. to 2.15., amend to read:

- "2.13. "Three-dimensional reference system" means a coordinate system as defined by Addendum 6 of Mutual Resolution No. 1 (M.R.1)¹. In this framework the longitudinal axis of the vehicle is designated the X axis, the lateral axis is the Y axis and the vertical axis is the Z axis.
- 2.14. "H-point Manikin" means a three-dimensional H-Point Machine as defined in Addendum 6 of Mutual Resolution No. 1 (M.R.1)¹.
- 2.15. "R-Point" means the seating reference point as defined in Addendum 6 of Mutual Resolution No. 1 (M.R.1).¹

Paragraph 4.5.1.(a), footnote ¹, renumber as footnote ² and amend to read:

- ² The distinguishing numbers of the Contracting Parties to the 1958 Agreement are reproduced in Annex 3 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev. 7 - <https://unece.org/transport/vehicle-regulations/wp29/resolutions>"

Paragraph 5.2.2.1., Table 1, amend to read:

"Table 1

Minimum Values of Visible Volume

		Minimum Volume (m ³) of Direct Vision			
		Level 1		Level 2	Level 3
Nearside Visible Volume		3.4		Not Specified	Not Specified
Front Visible Volume	IAPD ≥ 2156 mm	1.8	IAPD ≥ 2154 mm	1.0	1.0
	IAPD < 2156 mm	See paragraph 5.3	IAPD < 2154 mm	See paragraph 5.3	See paragraph 5.3
Subsection Frontal Visible Volume		See Paragraph 5.4		See Paragraph 5.4	See Paragraph 5.4
Offside Visible Volume		2.8		Not Specified	Not Specified
Total Visible Volume		11.2		8.0	7.0

"

Paragraph 5.2.2.2., amend to read:

- "5.2.2.2. High capacity vehicles and vehicles with competing objectives
- N₃ vehicles in Level 3 meeting the design and construction criteria as follows:
- (a) equipped with a coupling device, and;
 - (b) having 3 axles or more, and;
 - (c) with a maximum engine power of 320 kW or more, and;

¹ Addendum 6 of Mutual Resolution No. 1 (M.R.1) (document ECE/TRANS/WP.29/1101/Amend.5); see <https://unece.org/transport/vehicle-regulations/wp29/resolutions>"

- (d) designed with a permissible maximum gross combination weight (GCW) mass exceeding 60 tons, do not need to meet the required Front Visible Volume and Subsection Frontal Visible Volume."

Insert new paragraphs 5.4. to 5.4.2., to read:

- "5.4 The IAPD shall be measured and the frontal volume calculated using the appropriate IAPD equation for the vehicle level being assessed:
- 5.4.1 For Level 1 vehicles the SFVV is 26.1 per cent of the result calculated; and
- 5.4.2 For Level 2 and 3 vehicles the SFVV is 16.3 per cent of the result calculated."

Insert new paragraphs 12 to 12.5., to read:

"12. Transitional Provisions

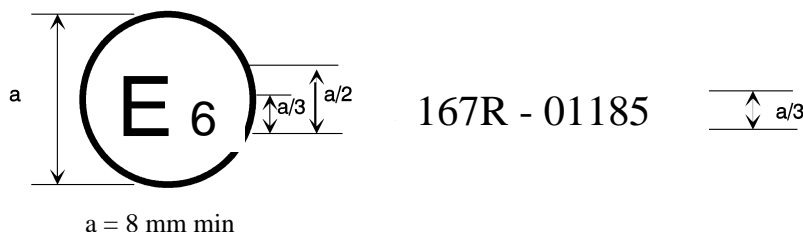
- 12.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type-approvals under this Regulation as amended by the 01 series of amendments.
- 12.2. As from 1 September 2031, Contracting Parties applying this Regulation shall not be obliged to accept type-approvals to the preceding series of amendments, first issued after 1 September 2031.
- 12.3. Until 1 September 2036, Contracting Parties applying this Regulation shall accept type-approvals to the preceding series of amendments, first issued before 1 September 2031.
- 12.4. As from 1 September 2036, Contracting Parties applying this Regulation shall not be obliged to accept type-approvals issued to the preceding series of amendments to this Regulation.
- 12.5. Notwithstanding paragraphs 12.2. and 12.4., Contracting Parties applying this Regulation shall continue to accept type approvals issued according to the original version of this Regulation, for vehicles which are not affected by the changes introduced by the 01 Series of amendments."

Annex 3, amend to read:

"Annex 3

Arrangements of Approval Marks

(see paragraphs 4.5. of this Regulation)



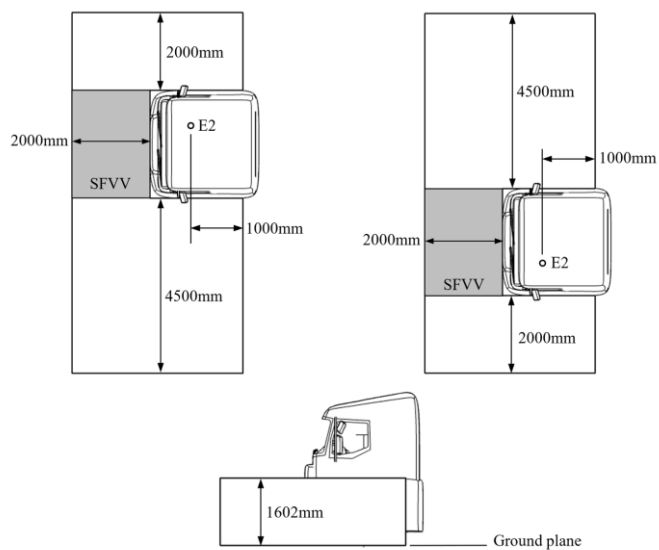
The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in Belgium (E6) with regard to Direct Vision pursuant to UN Regulation No. 167. The first two digits of the approval number indicate that the approval was granted in accordance with the requirements of UN Regulation No. 167 as amended by the 01 series of amendments.

..."

Annex 4, Figure 1, amend to read:

"Figure 1

Definition of the Assessment Volume, Based on a Category N₃ Vehicle as an Example



"

Annex 7,

Paragraph 5.1., amend to read:

"5.1. Each of the views to the driver's nearside, front, SFVV, and offside shall be constrained to only those volumes that are within the assessment zone (the visible volume to each side). The remaining volumes of space shall be designated as:"

Insert new paragraph 5.1.4., to read:

"5.1.4. The Subsection frontal visible volume."

Paragraph 5.2., amend to read:

"5.2. The total visible volume is the sum of the nearside, front and offside volumes."