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Item 4.8.6 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRBP

Proposal for Supplement 28 to UN Regulation No. 54 (Tyres for Commercial Vehicles and Their Trailers)

Submitted by the Working Party on Noise and Tyres*

The text reproduced below was adopted by the Working Party on Noise and Tyres (GRBP) at its eighty-first session (ECE/TRANS/WP.29/GRBP/79, para. 13). It is based on ECE/TRANS/WP.29/GRBP/2025/10 as amended by GRBP-81-06-Rev.1. 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 June 2025 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), 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.



Paragraph 1, amend to read:

"1. Scope

This Regulation covers new pneumatic tyres* designed primarily for vehicles of categories M₂, M₃, N, O₃ and O₄^{1,2}. However, it does not apply to tyre types identified by nominal speed category corresponding to speeds below eighty (80) km/h (speed category symbol F)."

Footnote 1, amend to read:

"¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3)."

Paragraph 2.1., amend to read:

"2.1. "Type of tyre" means tyres which do not differ in such essential characteristics as:

- (a) The manufacturer's name;
- (b) Tyre-size designation;
- (c) Category of use (normal tyre, snow tyre, special use tyre);
- (d) Structure (diagonal (bias-ply), radial (radial-ply));
- (e) Speed category symbol;
- (f) Load-capacity indices;
- (g) Tyre cross-section."

Add a new paragraph 2.14.1. to read:

"2.14.1. "Principal grooves" means the wide tread grooves positioned in the central zone of the tyre tread. The central zone is the area on the tread which comprises of 75 per cent of the width of the tread measured symmetrically from the centre line.

Paragraph 2.20.4., amend to read:

"2.20.4. the nominal rim diameter;"

Paragraph 2.21., amend to read:

"2.21. "Nominal rim diameter" means a conventional number denoting the diameter of the rim on which a tyre is designed to be mounted; the diameter is expressed either by codes (numbers below 100) or in millimetres (numbers above 100) but not both;"

Paragraph 2.20.4.1., renumber to 2.21.1. and amend to read:

"2.21.1. When the nominal rim diameter ("d" symbol) is expressed by code, the values of the "d" symbol expressed in millimetres are as follows:

¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.).

² This Regulation defines requirements for tyres as a component. It does not limit their installation on any categories of vehicles.

* For the purpose of this Regulation, "tyres" means "pneumatic tyres".

<i>Nominal rim diameter code ("d" symbol)</i>	<i>Value of the "d" symbol expressed in mm</i>
8	203
9	229
10	254
11	279
12	305
13	330
14	356
15	381
16	406
17	432
18	457
19	483
20	508
21	533
22	559
24	610
25	635
26	660
28	711
30	762
32	813
34	864
36	914
38	965
40	1016
42	1067
14.5	368
16.5	419
17.5	445
19.5	495
20.5	521
22.5	572
24.5	622
26.5	673
28.5	724
30.5	775

"

Paragraph 2.36., amend to read:

"2.36. "Additional service description" means a service description, marked within a circle, to identify a special type of service (load-capacity index or indices and speed-category symbol) to which the tyre type is also allowed to operate in addition to the applicable load variation with speed (see Annex 8)."

Paragraph 2.37. and 2.38., amend to read:

"2.37. "Tread depth" means the depth of the principal grooves."

"2.38. "Free Rolling Tyre" means a tyre, designed for the equipment of trailer axles and axles of motor vehicles other than front axles and drive axles.

2.38.1. "Front axle" means any axle, forward of the mid-point of the chassis, on which the wheels are controlled by the steering system."

Paragraph 3.1.15., amend to read:

"3.1.15. The inscription "FRT" in case of a Free Rolling Tyre."

Paragraph 6.1.1.1., amend to read:

"6.1.1.1. The section width S of a tyre fitted on the measuring rim shall be calculated by the following formula:

$$S = S_1 + K \cdot (A - A_1),$$

and rounded to the nearest millimetre,

where:

..."

Paragraph 6.1.4., amend to read:

"6.1.4. Tyre overall width specifications"

Paragraph 6.1.5.3.3., amend to read:

"6.1.5.3.3. For tyres of the category of use "snow tyre" the outer diameter shall not exceed the following value

$$D_{\max, \text{snow}} = 1.01 \cdot D_{\max} \quad \text{rounded to the nearest mm}$$

where D_{\max} is the maximum outer diameter established for normal use tyres in conformity with the above."

Paragraph 6.3.2., amend to read:

"6.3.2. In order to be classified as a 'professional off-road tyre', a special use tyre shall fulfil the following additional requirement:

- (a) For class C2 tyres, the maximum speed category shall be less than or equal to 160 km/h (speed category symbol Q).
- (b) For class C3 tyres, the maximum speed category shall be less than or equal to 110 km/h (speed category symbol K)."

Annex 1, add a new item 4.2.1. to read:

"4.2.1. For special use tyres, whether professional off-road tyre: yes/no²"
