

Proposal to replace document GRBP/2025/16 (Proposal for a new Supplement the 01 series of amendments to UN Regulation No. 109)

The changes compared to document GRBP/2025/16 are marked in **bold** for added text and **strike through** for deleted text, all in red font.

Additional changes compared to document GRBP/2025/16 proposed by France are marked in **bold** for added text and **strike through** for deleted text, all in red font.

Additional changes compared to document GRBP-81-12 are marked in **bold** for added text and **strike through** for deleted text, all in purple font.

A green frame highlights the triggering element for the amendment

I. Proposal

Paragraph 1.1., amend to read:

"1.1. Retreaded tyres ~~with a~~ **identified by** nominal speed category ~~symbol~~ below eighty (80) km/h (**speed category symbol "F"**); "

Paragraph 2.26.4., amend to read:

"2.26.4. **the nominal rim diameter;** ~~A conventional number "d" (the "d" symbol) denoting the nominal rim diameter of the rim and corresponding to its diameter expressed either in codes (numbers below 100) or in millimetres (numbers above 100). Numbers corresponding to both types of measurements may be used together in the designation;~~"

Paragraph 2.27., amend to read:

"2.27. ~~"Nominal rim diameter-(d)"~~ 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 2.26.4.1., renumber to 2.27.1. and amend to read:

~~"2.26.4.27.1.~~ **When the nominal rim diameter ("d" symbol) is expressed by code, The the values of the "d" symbols expressed in millimetres are as follows shown below:**

Nominal Rim Diameter Code – "d" symbol	Value of the "d" symbol expressed in mm
8	203
9	229
10	254
11	279
12	305
13	330
14	356
15	381

Nominal Rim Diameter Code – "d" symbol	Value of the "d" symbol expressed in mm
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 2.39., amend to read:

"2.39. *"Additional service description"* means ~~a an additional~~ 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 retreaded tyre is also allowed to operate in addition to the applicable load variation with speed (see Annex 8)."

Paragraphs 2.53., 2.58., 3.4.1., 4.1.5.3.2.1., 4.1.5.3.2.2., 4.1.5.3.2.3., 6.4.4.1., 6.4.4.3., 6.4.4.4., replace 'No. [XXX]' with 'No. 172'.

Paragraph 2.56.1., renumber to 2.56. and amend to read:

"2.56.1. *"Principal grooves"* means the wide ~~circumferential tread~~ grooves positioned in the central zone of the tyre tread, ~~which covers about three quarters of the width of the tread surface~~, in the case of passenger and light truck (commercial) tyres, have the treadwear indicators located in the base. **The central zone represents is the area on the tread which comprises of 75 per cent of the width of the tread measured width defined by the ¾ (75%) of the reference tread width (C) symmetrically measured from the centre line.**"

Paragraph 2.56. (former), renumber to 2.57.:

"2.56.57. *"Tread depth"* means the depth of the principal grooves."

Paragraphs 2.57, 2.58. and 2.59. (former), renumber to 2.58., 2.59. and 2.60.

Add new paragraphs 2.~~60-61~~. and 2.~~60-61~~.1. to read:

"2.~~60-61~~. "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.~~60-61~~.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 3.2.16., amend to read:

"3.2.16. The inscription "FRT" **in case of a** (Free Rolling Tyre) ~~in case of tyres designed for the equipment of trailer axles and axles of motor vehicles other than front steering and drive axles.~~"

Paragraphs 4.1.5.3.2.1., header of first column of the table, replace 'indexes' by 'indices'.

Paragraph 4.1.5.3.2.2., header of first column of the table, replace 'indexes' by 'indices'.

Paragraph 4.1.5.3.2.3., header of first column of the table, replace 'indexes' by 'indices'.

Paragraph 6.4.4.2., amend to read:

"6.4.4.2. For retreaded tyres produced by using either mould cure process or pre-cured tread with the same major features including tread pattern(s) as a new type of tyre approved pursuant to UN Regulation No. 117 having fulfilled the requirements about minimum snow performance in severe snow conditions **and/or traction tyre classification**, the retreader shall ensure that the manufacturer of the new tyre type provides to the Type Approval Authority (and the Technical Service) issuing the approval according to this UN Regulation and optionally to the retreader:

- (a) a copy of the Regulation No. ~~[XXX]~~172 certificate(s), as issued by the relevant Type Approval Authority based on the UN Regulation No. 117 certificate(s);
- (b) The list(s) of tyre sizes annexed to the UN Regulation No. ~~[XXX]~~ 172 certificate(s). The list(s) shall include at least the tyres defined in paragraph 4.1.5.3.2.3.;
- (c) The drawing(s) of the tread pattern(s) covered by the UN Regulation No 117 certificate(s) including the major features with respect to the snow performance;
- (d) A copy of the last report of the Conformity of Production as required in UN Regulation No. 117."

Paragraph 7.3., amend to read:

"7.3. In order to be classified as a 'professional off-road tyre', a **special use** tyre shall ~~have fulfil~~ all of the following ~~characteristics~~ **additional requirement**:

- (a) For C2 tyres: **a maximum speed category less than or equal to 160 km/h (speed category symbol Q).**
 - (i) — A tread depth ≥ 11 mm;
 - (ii) — A void to fill ratio ≥ 35 per cent;
 - (iii) — A maximum speed rating of $\leq Q$.
- (b) For C3 tyres: **a maximum speed category less than or equal to 110 km/h (speed category symbol K).**
 - (i) — A tread depth ≥ 16 mm;
 - (ii) — A void to fill ratio ≥ 35 per cent;
 - (iii) — A maximum speed rating of $\leq K$."

II. Justification

1. Editorial corrections are made in the description of a tyre to which UN Regulation No. 109 does not apply.
 2. An amendment is proposed for the definition of principal grooves in line with the proposal for amending UN Regulation No. 54. *The rewording is aimed to make the definition of the central zone much clearer.*
 3. The definition of nominal rim diameter is clarified in line with the proposal for amending UN Regulation No. 54.
 4. In line with informal documents GRBP-80-03 and GRBP-80-26, the definitions of free rolling tyre and front axle are introduced in this Regulation. The marking part has been revised accordingly.
 5. An amendment is proposed in paragraph 6.4.4.2. to clarify that the UN Regulation No. 117 certificate can be used also for obtaining the type approval under UN Regulation No. 172 of retreaded tyres classified as traction tyre.
 6. Editorial revision is made to simplify the wording of the requirements for professional off-road tyres.
 7. At every occurrence in the text, the provisional number [XXX] of the adopted UN Regulation concerning the approval of retreaded tyres with regard to their snow performance and/or classification as traction tyre is replaced with the assigned number 172.
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