

Full text of paragraphs reported in document GRBP/2026/12 (Proposal for Supplement 2 to the 01 series of amendments to UN Regulation No. 109)

The changes compared to document GRBP/2026/11 are marked in **bold** for added text and ~~strike through~~ for deleted text, all in red (or blue, Rev. 2) font.

I. Proposal

Paragraph 2.4., amend to read:

"2.4. "Material ~~manufacturer / material-supplier~~" means the person or body who provides to the retreader the retreading or repair materials. "

Paragraph 2.59., delete.

~~"2.59. "Supplier of the tread used for retreading process" means the person or body who is responsible to the Type Approval Authority for all aspects of the type approval under UN Regulation No. 172."~~

Paragraphs 2.60., 2.61. and 2.61.1., renumber as paragraphs 2.59., 2.60. and 2.60.1., respectively.

~~"2.5960. "Tread used for retreading process" means either a pre-cured tread or the specification of the major features of the tread used for mould cure process.~~

2.604. "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.

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

Paragraph 3.2.8., amend to read:

"3.2.8. The inscription M+S ~~or MS or M.S. or M & S~~ **M&S** if the tyre is classified in the category of use "snow tyre" or if the tyre is classified in the category of use "special use tyre" when declared by the ~~tyre manufacturer~~ **retreader** at paragraph 4.1.5.3.1. as complying also with the definition given in paragraph 2.8.3."

Paragraph 3.6., amend to read:

"3.6. As far as any of the original **tyre** manufacturer's specifications are still legible after the tyres have been retreaded, they shall be regarded as specifications of the retreader for the retreaded tyre. If these original specifications do not apply after retreading they shall be completely removed."

Paragraph 4.1.5.3.2., amend to read:

"4.1.5.3.2. The list of tyres classified as tyre for use in severe snow conditions and/or as traction tyre. **The list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.4.4.1. b).**

The following table is an example:

<i>Tyre Size Designation, Load indices, Speed symbol</i>	<i>TPR1</i>	<i>TPR2</i>	<i>TPR3</i>
215/75 R 17.5 126/124 M	TA1	-	TA3
235/75 R 17.5 132/130 M	TA1	-	-
265/70 R 17.5 138/136 M	-	TA2	TA3

245/70 R 19.5 136/134 M	-	-	-
12 R 22.5 152/148 K	-	TA2	-

Notes:

TPR: Trade description/commercial name of the Tread Pattern by the Retreader

TA: Number of the approval granted according to UN Regulation No. 172 to the type of retreaded tyre."

Paragraphs 4.1.5.3.2.1., 4.1.5.3.2.2. and 4.1.5.3.2.3. , delete.

"4.1.5.3.2.1. For retreaded tyres produced by using either pre-cured tread or mould cure process with the same tread pattern covered by paragraph 6.4.4.1. the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.4.4.1. b). The following table is an example:

<i>Tyre Size Designation, Load indices, Speed symbol</i>	<i>TM1</i>	<i>TM2</i>	<i>TM3</i>
215/75 R 17.5 126/124 M	TPM1/TPR1, TA1	-	TPM2/TPR2, TA2
235/75 R 17.5 132/130 M	TPM1/TPR1, TA1	-	-
265/70 R 17.5 138/136 M	-	TPM3/TPR3, TA3	TPM4/TPR4, TA4
245/70 R 19.5 136/134 M	-	-	-
12 R 22.5 152/148 K	-	TPM5/TPR5, TA5	-

Notes:

TM: Brand name/trademark of the Pre-Cured Tread Manufacturer

TPM: Trade description/commercial name of the Tread Pattern by the pre-cured tread Manufacturer

TPR: Trade description/commercial name of the Tread Pattern by the Retreader if different of TPM

TA: Number of the approval granted according to UN Regulation No. 172 to the type of retreaded tyre produced by using either a pre-cured tread or mould cure process with a tread having the same major features including tread pattern.

4.1.5.3.2.2. For retreaded tyres produced by using either mould cure process or pre-cured tread with the same tread pattern(s) as a new type of tyre covered by paragraph 6.4.4.2., the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.4.4.2. (b). The following table is an example:

<i>Tyre Size Designation, Load indices, Speed symbol</i>	<i>TM1</i>	<i>TM2</i>	<i>TM3</i>
215/75 R 17.5 126/124 M	TPM1/TPR1, TA1	-	TPM2/TPR2, TA2
235/75 R 17.5 132/130 M	TPM1/TPR1, TA1	-	-
265/70 R 17.5 138/136 M	-	TPM3/TPR3, TA3	TPM4/TPR4, TA4
245/70 R 19.5 136/134 M	-	-	-
12 R 22.5 152/148 K	-	TPM5/TPR5, TA5	-

Notes:

TM: Brand name/trademark of the Tyre Manufacturer

TPM: Trade description/commercial name of the Tread Pattern by the Tyre Manufacturer

TPR: Trade description/commercial name of the Tread Pattern by the Retreader

TA: Number of the approval granted according to UN Regulation No. 172 to the type of retreaded tyre produced by using the pre-cured tread or mould cure process with a tread having the same major features including tread pattern of new tyres approved according to UN Regulation No. 117.

4.1.5.3.2.3. For retreaded tyres produced by using mould cure process with a tread pattern covered by paragraph 6.4.4.3. the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.4.4.3. b). The following table is an example:

<i>Tyre Size Designation, Load indices, Speed symbol</i>	<i>TPR1</i>	<i>TPR2</i>	<i>TPR3</i>
215/75 R 17.5 126/124 M	TA1	-	TA3
235/75 R 17.5 132/130 M	TA1	-	-
265/70 R 17.5 138/136 M	-	TA2	TA3
245/70 R 19.5 136/134 M	-	-	-
12 R 22.5 152/148 K	-	TA2	-

Notes:

TPR: Trade description/commercial name of the Tread Pattern by the Retreader

TA: Number of the approval granted according to UN Regulation No. 172 to the type of retreaded tyre produced by using mould cure process"

Paragraph 6.3.3., amend to read:

"6.3.3. Where precured material is to be used the contours of the prepared area shall meet the requirements of the material ~~manufacturer~~ **supplier**."

Paragraph 6.3.7., amend to read:

"6.3.7. Exposed steel parts shall be treated as soon as possible with appropriate material as defined by the material ~~manufacturer~~ **supplier** of that appropriate material."

Paragraph 6.4.1., amend to read:

"6.4.1. The retreader must ensure that ~~either the material manufacturer or the supplier~~ of repair materials, ..."

Paragraph 6.4.4., amend to read:

"6.4.4. The retreader shall ensure that ~~either the material manufacturer or the supplier~~ of tread and sidewall material including patches, is responsible for the following:

- (a) defining method(s) of application and storage, if requested by the retreader, in the national language of the country in which the materials are to be used;
- (b) defining limits of damage for which the materials are designed, if requested by the retreader, in the national language of the country in which the materials are to be used;
- (c) ensuring that reinforced patches for tyres, if correctly applied in carcass repairs, are suitable for the purpose;
- (d) Ensuring that the patches are capable of withstanding twice the maximum inflation pressure as given by the original tyre manufacturer;
- (e) ensuring the suitability of any other repair materials for the service intended."

Paragraph 6.4.4.1., amend to read:

"6.4.4.1. For retreaded tyres ~~produced by using pre-cured tread or by using mould cure process with the same tread pattern not covered by paragraph 6.4.4.2 and type approved pursuant to UN Regulation No. 172, the retreader shall ensure that~~ ~~manufacturer(s) or the~~ **material** supplier(s) of the tread(s) used for retreading process provides to the Type Approval Authority (TAA) and the Technical Service issuing the approval according to this Regulation and optionally to the retreader:

- (a) A copy of the UN Regulation No. 172 certificate(s), as issued by the relevant Type Approval Authority;;
- (b) The list(s) of tyre sizes annexed to the UN Regulation No. 172

certificate(s). The list(s) shall include at least the tyres defined in paragraph 4.1.5.3.2.1.;

- (c) The drawing(s) of the tread pattern(s) covered by the UN Regulation No. 172 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. 172."

Paragraphs 6.4.4.2. and 6.4.4.3., delete.

~~"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. 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. 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.~~

~~6.4.4.3. For retreaded tyres produced by using mould cure process not covered by paragraphs 6.4.4.1. or 6.4.4.2. and type approved pursuant to UN Regulation No. 172 the retreader shall provide to the Type Approval Authority (TAA) and the Technical Service issuing the approval according to this Regulation:~~

- ~~(a) A copy of the UN Regulation No. 172 certificate(s), as issued by the relevant Type Approval Authority;~~
- ~~(b) The list(s) of tyre sizes annexed to the UN Regulation No. 172 certificate(s). The list(s) shall include at least the tyres defined in paragraph 4.1.5.3.2.4.;~~
- ~~(c) The drawing(s) of the tread pattern(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. 172."~~

Insert a new paragraph 6.4.4.2., to read:

"6.4.4.2. For retreaded tyres categorized as "special use tyres", the retreader shall ensure that the supplier(s) of the tread(s) used for retreading process of such tyres provides the value of tread depth and void to fill ratio pertinent to each tread."

Paragraph 6.4.4.4., renumber as paragraphs 6.4.4.3.

"6.4.4.3.4. For retreaded tyres produced by using pre-cured tread type approved pursuant to UN Regulation No. 172, the retreader shall ensure the packaging of the pre-cured tread bear the sticker with the approval marking till it is open and start to be used for the retreading process unless the approval marking is displayed on the tread shoulder."

Paragraphs 6.4.5. and 6.4.6., amend to read:

- "6.4.5. The retreader must ensure that the repair material and/or compound is documented in a ~~manufacturer's or~~ **material** supplier's certificate. The material compound must be suitable for the intended use of the tyre.
- 6.4.6. The processed tyre shall be cured as soon as possible after the completion of all repairs and building-up operations and at the latest according to the material ~~manufacturer's~~ **supplier's** specifications."

Paragraph 6.5.4., amend to read:

- "6.5.4. After retreading, the dimensions of the retreaded tyre, when measured in accordance with Annex 6 to this Regulation, must conform either to dimensions calculated according to the procedures in paragraph 7. or to those given in ~~Annex 5~~ **Annex 5** to this Regulation. ~~Note that:~~
- ~~(a) the maximum outer diameter of a retreaded tyre may be up to 1.5 per cent greater than the maximum outer diameter of the same tyre size designation permitted by Regulation No. 54;~~
- ~~(b) and the maximum section width of a radial retreaded tyre may be up to 1.5 per cent greater than the maximum section width of the same tyre size designation permitted by Regulation No. 54."~~

Paragraphs 7.1.4. and 7.1.4.2., amend to read:

"7.1.4. **Section-Tyre overall** width specifications:

- 7.1.4.1. The actual overall width may be less than the section width or widths determined in paragraph 7.1.1.
- 7.1.4.2. **Except for the cases defined in paragraphs 7.1.4.3. and 7.1.4.4., it** ~~it~~ may exceed the value by 5.5 per cent in the case of radial-ply tyres and 8 per cent in the case of diagonal (bias-ply) tyres. However, for tyres intended for dual mounting (twinning) listed in column A of the following table, the overall width of the tyre may exceed the value determined pursuant to paragraph 7.1.1. above taking into account the tolerances listed in column B. Other different specific tolerances are listed in Annex 5 Part II in footnotes of the relevant tables. The respective limits shall be rounded to the nearest millimetre.

A	B
Radial metric tyres with nominal section width exceeding 305 mm and aspect ratio higher than 60	3.5%
Radial tyres listed in Annex 5 Part I with section width exceeding 305 mm	3.5%
Diagonal metric tyres with nominal section width exceeding 305 mm	4%
Diagonal tyres listed in Annex 5 Part I with section width exceeding 305 mm	4%

"

Paragraph 7.1.5.2., amend to read:

- "7.1.5.2. ~~For snow tyres the maximum outer diameter (D_{max}) calculated in paragraph 7.1.5.1. may be exceeded by not more than 1 per cent.~~

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 9., amend to read:

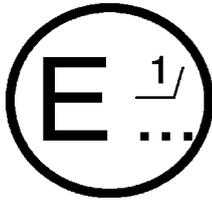
"9. Conformity of production

The conformity of production procedures shall comply with those set out in the Agreement, ~~Appendix 2~~ **Schedule 1** (E/ECE/324-E/ECE/TRANS/505/Rev.3), with the following requirements:"

Annex I, amend to read:

"Communication

(maximum format: A4 (210 x 297 mm))



Issued by:

Name of Type Approval Authority:

.....
.....
.....

- concerning: ^{2/} Approval granted
- Approval extended
- Approval refused
- Approval withdrawn
- Production definitely discontinued

of a retreading production unit pursuant to UN Regulation No. 109.

Approval No.:

~~Extension No.:~~

1. Retreader's name and address:
2. Name and address of retreading production unit:
3. If applicable, name and address of retreader's representative:
4. Summarized description as defined in paragraphs 4.1.3., 4.1.4 and 4.1.5. of this Regulation:
 - 4.1 Brand name(s)/trademark(s)^{2/}
 - 4.2 Trade description(s)/ Commercial name(s)^{2/}.....
 - 4.3 Information in relation to the range of tyres as defined in paragraphs 4.1.5. of this Regulation :.....
5. Technical service and, where applicable, test laboratory approved for purposes of approval or verification of conformity:
6. Date of report issued by that service:
7. Number of report issued by that service:
8. Reason(s) of extension (if applicable):
9. Any remarks:.....
10. Place:.....
11. Date:
12. Signature

13. Annexed to this communication is a list of documents in the approval file deposited at the Approval Authority which has considered this approval and which can be obtained upon request."

Annex 5, amend to read:

"Tyre size designation and dimensions

(in accordance with UN Regulation No. 54)

For this information refer to annex 5 to UN Regulation No. 54

Note that with reference to paragraph ~~6.5.4.~~**7.1.** of this Regulation, the outer diameter of a retreaded tyre, and the section width of a radial retreaded tyre, may in all cases be greater than that shown in the tables in Annex 5 to Regulation No. 54, but by no more than 1.5 per cent.

Notwithstanding the above, the ~~The~~ overall section width of a retreaded radial tyre with an ASP may in all cases be greater than that shown in the tables of Annex 5 to Regulation No. 54, but by no more than 8 mm."

Annex 6, Paragraph 5., amend to read:

- "5. The outer diameter shall be ~~calculated from a measurement of~~**determined by measuring the maximum circumference of the inflated tyre and dividing the value so obtained by π (rounded to 3.1416).**"

Annex 7, paragraph 2.3.4., amend to read:

- "2.3.2. During the test the temperature of the test room shall be maintained ~~at~~ between 20°C and 30°C unless the ~~tyre manufacturer or retreader~~ agrees to the use of a higher temperature."

II. Justification

1. It is proposed to delete paragraph 2.59. based on the following reasons:
 - (a) the definition of "Supplier of the tread used for retreading process" given in paragraph 2.59. is too restrictive because not all the retreaded tyres produced by retreading units type-approved pursuant to this regulation are type-approved pursuant to UN Regulation No. 172, and
 - (b) the definition of material supplier given in paragraph 2.4. of this Regulation covers also the supplier of tread used for producing retreaded tyres type-approved pursuant to UN Regulation No 172.
2. It is proposed to amend the paragraph 2.4. by referring to the material supplier only because the definition given in this paragraph describe this market operator and not the material manufacturer. Consequently, it is also proposed to cancel the reference to the material manufacturer in all the paragraphs in which this market operator is referred as an alternative to the material supplier.
3. It is proposed to simplify the list of tyres classified as tyre for use in severe snow conditions and/or as traction tyre to be submitted at the application for approval, because they are redundant. In fact, the various cases currently specified in paragraphs 4.1.5.3.2.1., 4.1.5.3.2.2. and 4.1.5.3.2.3. are already handled in UN Regulation No. 172. Therefore, a simple list reporting just the type approval number of UN

Regulation No. 172 associated to the size and the trade description/commercial name given by the retreader to the retreaded tyre cover all the needed information.

4. It is proposed to introduce a paragraph clarifying that the supplier of tread material dedicated to the retreading of tyres categorized as special use tyres shall provide to the retreader the void to fill ratio pertinent to such tread material.
 5. Paragraph 7.1.5.2. is aligned to paragraph 6.1.5.4. of UN Regulation No. 54.
 6. The first paragraph of section 9 refers to Appendix 2 of the 1958 Agreement. However, the Conformity of production procedures are contained in Schedule 1 of that Agreement.
 7. Based on Revision 3 of the Agreement, the extension number is already included in the approval number.
 8. The notes (a) and (b) in paragraph 6.5.4. are not correct and misleading. Therefore, it is proposed to delete them.
 9. The wording of paragraph 7.1.4. is amended in line with UN R54.
 10. The provisions reported in paragraph 7.1.4.2. are only applicable to tyres without ASP.
 11. In Annex 5, a wrong reference to paragraph 6.5.4. is corrected. In addition, the last paragraph specifies different requirements than the previous paragraph. Therefore, it needs to be indicated that for tyres with ASP, the previous paragraph is not valid.
 12. Annex 6, paragraph 5. is reworded to clarify how the outer diameter shall be calculated. In line with recent changes in UN Regulation 30, it is proposed to specify the value of pi.
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