

## Full text of paragraphs reported in document GRBP-83-13 replacing document GRBP/2026/9 (Proposal for Supplement 2 to the 01 series of amendments to UN Regulation No. 108)

The changes compared to document GRBP/2026/9 are marked in **bold** for added text and **strike through** for deleted text, all in red (or blue, Rev. 1) font.

### I. Proposal

Paragraph 2.14.1., amend 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. ~~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 2.48., delete.

~~"2.48. *"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.~~"

Paragraph 2.57., renumber as paragraphs 2.48.

~~"2.4857. *"Void to fill ratio"* means the ratio between the area of voids in a reference surface and the area of this reference surface calculated from the mould drawing."~~

Paragraph 2.51., amend to read:

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

Paragraphs 2.58., 2.59., 2.60., and 2.61., renumber as paragraphs 2.57., 2.58., 2.59. and 2.60., respectively.

"2.578. *"Extended Mobility Tyre (EMT)"* describes a tyre with a radial structure allowing the tyre, mounted on the appropriate wheel and in the absence of any supplementary component, to provide the vehicle with the basic tyre functions at a speed of 80 km/h and a distance of 80 km when operating in flat tyre running mode.

2.589. *"Flat tyre running mode"* describes the state of the tyre, essentially maintaining its structural integrity, while operating at an inflation pressure between 0 and 70 kPa.

2.5960. *"Basic tyre functions"* means the normal capability of an inflated tyre in supporting a given load up to a given speed and transmitting the driving, the steering and the braking forces to the ground on which it runs.

2.604. *"Deflected section height"* is the difference between the deflected radius, measured from the centre of the rim to the surface of the drum, and one half the nominal rim diameter as defined in paragraph 2.26. of this Regulation."

Paragraph 3.2.7.8., amend to read:

"3.2.7.8. 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 2.3.2."

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. **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>
185/60 R 14 82 H	TA1	-	TA3
195/65 R 15 91 H	TA1	-	-
205/55 R 16 94 V XL	-	TA2	TA3
235/60 R 17 102 H	-	-	-
255/45 R 18 99 V	-	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 a pre-cured tread or mould cure process with the same tread pattern covered by paragraph 6.6.3.1. the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.6.3.1. b). The following table is as example:~~

<i>Tyre Size Designation, Load indexes, Speed symbol</i>	<i>TM1</i>	<i>TM2</i>	<i>TM3</i>
185/60 R 14 82 H	TPM1/TPR1, TA1	-	TPM2/TPR2, TA2
195/65 R 15 91 H	TPM1/TPR1, TA1	-	-
205/55 R 16 94 V XL	-	TPM3/TPR3, TA3	TPM4/TPR4, TA4
235/60 R 17 102 H	-	-	-
255/45 R 18 99 V	-	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 material with the same major features including tread pattern(s) as a new type of tyre covered by paragraph 6.6.3.2. the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.6.3.2. b). The following table is an example:~~

<i>Tyre Size Designation, Load indexes, Speed symbol</i>	<i>TM1</i>	<i>TM2</i>	<i>TM3</i>
185/60 R 14 82 H	TPM1/TPR1, TA1	-	TPM2/TPR2, TA2
195/65 R 15 91 H	TPM1/TPR1, TA1	-	-
205/55 R 16 94 V XL	-	TPM3/TPR3, TA3	TPM4/TPR4, TA4
235/60 R 17 102 H	-	-	-
255/45 R 18 99 V	-	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 a 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 6.6.3.3. the list shall clearly identify the tyres in order to make the relevant link with the list(s) quoted in paragraph 6.6.3.3. b). The following table is an example:

<i>Tyre Size Designation, Load indexes, Speed symbol</i>	<i>TPR1</i>	<i>TPR2</i>	<i>TPR3</i>
185/60 R 14 82 H	TA1	-	TA3
195/65 R 15 91 H	TA1	-	-
205/55 R 16 94 V XL	-	TA2	TA3
235/60 R 17 102 H	-	-	-
255/45 R 18 99 V	-	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."

Paragraph 6.5.3.3., amend to read:

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

Paragraph 6.5.8.3.7., amend to read:

"6.5.8.3.7. 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 6.6.1., amend to read:

"6.6.1. The retreader must ensure that either the **material manufacturer** or the supplier of repair materials, 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 tyre manufacturer;

- (e) ensuring the suitability of any other repair materials for the service intended."

*Paragraph 6.6.3.*, amend to read:

- "6.6.3. The retreader shall ensure that either the **material** manufacturer or the supplier of tread and sidewall material issues specifications concerning the conditions of storage and use of the material in order to guarantee the material's qualities. If requested by the retreader, this information shall be in the national language of the country in which the materials are to be used."

*Paragraph 6.6.3.1.*, amend to read:

- "6.6.3.1. For retreaded tyres ~~produced by using pre-cured tread and/or by using mould cure process with the same tread pattern not covered by paragraph 6.6.3.2. and~~ type approved pursuant to UN Regulation No. 172, the retreader shall ensure that the **material** supplier(s) of the tread(s) used for retreading process provides to the Type Approval Authority 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 6.6.3.2. and 6.6.3.3.*, delete.

- ~~"6.6.3.2. 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 approved according to UN Regulation No. 117 having fulfilled the requirements about minimum snow performance in severe snow conditions, the retreader shall ensure that the manufacturer of the new tyre type provides to the Type Approval Authority and 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 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 4.1.5.3.2.2.~~
- ~~(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.~~

- ~~6.6.3.3. For retreaded tyres produced by using mould cure process not covered by paragraphs 6.6.3.1. or 6.6.3.2. 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 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) 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 6.6.3.2., to read:

**"6.6.3.2. 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 values of tread depth and the void to fill ratio pertinent to each tread."**

Paragraph 6.6.3.4., renumber as paragraphs 6.6.3.3.

"6.6.3.3.4- For retreaded tyres produced by using pre-cured tread material(s) type approved pursuant to UN Regulation No. 172, the retreader shall ensure the packaging of the pre-cured tread material(s) 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 6.6.4. and 6.6.5., amend to read:

"6.6.4. The retreader must ensure that the repair material and/or compound is documented in a ~~manufacturer's~~ **material** supplier's certificate. The material compound must be suitable for the intended use of the tyre.

6.6.5. 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 6.7.5.4., amend to read:

"~~6.7.5.4.~~ 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."

Paragraphs 7.1.5.1. ~~and 7.1.5.2.~~, amend to read:

"7.1.5.1. The actual outer diameter of a retreaded tyre must not be outside the values of  $D_{min}$  and  $D_{max}$  obtained by the following formulae:

$$D_{min} = d + (2H \times a) \quad \text{---} \quad D_{max} = d + (2H \times b) \quad \text{where:}$$

$$D_{max} = d + (2H \times b)$$

**where:"**

Paragraph 7.1.5.1.4., amend to read:

"7.1.5.1.4. The coefficient "b" is:

	<i>Radial tyres</i>	<i>Diagonal (bias-ply) and bias belted tyres</i>
for normal use tyres	1.04	1.08
<b>for special use tyres</b>	<b>1.06</b>	<b>1.09</b>

"

Paragraph 7.1.5.2., amend to read:

"7.1.5.2. ~~For snow tyres the maximum outer diameter (Dmax) 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**

$D_{max,snow} = 1.01 \cdot D_{max}$  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:

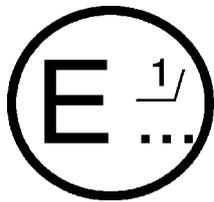
## "9. Conformity of production

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 1, amend to read:

### "Communication

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



Issued by:

Name of Type Approval Authority:

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

concerning: <sup>2/</sup>

- 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)<sup>3/</sup> .....
  - 4.2 Trade description(s)/ Commercial name(s)<sup>3/</sup> .....
  - 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 7, paragraph 2.4.*, amend to read:

- "2.4. During the test the temperature in the test-room must 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 2.48. based on the following reasons:
  - (a) The definition of "supplier of the tread used for retreading process" given in paragraph 2.48. is too restrictive because not all the retreaded tyres produced by retreading units approved pursuant to this Regulation are type-approved pursuant to UN Regulation No. 172, and
  - (b) The definition of "material supplier" given in paragraph 2.51. 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 paragraph 2.51. by referring to the material supplier only, because the definition given in this paragraph describes 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 to 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 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 2.14.1. is corrected by removing the last sentence because it is a duplication of the previous sentence.
6. Paragraph 7.1.5.1. is editorially corrected.
7. In paragraph 7.1.5.1.4. the coefficient b is added for special use tyres.
8. Paragraph 7.1.5.2. is aligned to paragraph 6.1.5.4. of UN Regulation No. 30
9. The number of some of the paragraphs to be amended has been corrected because they were wrongly reported due to copy/past operation made from working document GRBP/2026/12.
10. Reference to paragraph 7.1.5.2. has been cancelled because the amendment of this paragraph is done in a separate specific point of working document GRBP/2026/9.
11. 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.
12. Based on Revision 3 of the Agreement, the extension number is already included in the approval number.

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