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## Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Working Party on Noise and Tyres

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Item 5 (c) of the provisional agenda

**Tyres:**

**UN Regulation No. 108 (Retreaded Tyres for Passenger Cars and Their Trailers)**

### **Proposal for Supplement 2 to the 01 series of amendments to UN Regulation No. 108**

**Submitted by the experts from the European Tyre and Rim Technical  
Organization\***

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organization (ETRTO). The modifications to the existing text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2026 as outlined in proposed programme budget for 2026 (A/80/6 (Sect. 20), table 20.7), 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.

## I. Proposal

Paragraph 2.14.1., amend to read:

"2.14.1. "Principal grooves" means (...) 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.

Paragraph 2.57., renumber as paragraphs 2.48.

Paragraph 2.51., amend to read:

"2.51. "Material ~~manufacturer/material supplier~~" (...)."

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

Paragraph 3.2.8., amend to read:

"3.2.8. The inscription M+S ~~or MS or M.S. or M & S~~ **M&S** (...) when declared by the ~~tyre manufacturer~~ **retreader** (...)"

Paragraph 3.6., amend to read:

"3.6. As far as any of the original **tyre** manufacturer's specifications (...)"

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>
<b>185/60 R 14 82 H</b>	<b>TA1</b>	-	<b>TA3</b>
<b>195/65 R 15 91 H</b>	<b>TA1</b>	-	-
<b>205/55 R 16 94 V XL</b>	-	<b>TA2</b>	<b>TA3</b>
<b>235/60 R 17 102 H</b>	-	-	-
<b>255/45 R 18 99 V</b>	-	<b>TA2</b>	-

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.

Paragraph 6.3.3., amend to read:

"6.3.3. (...) the material ~~manufacturer~~ **supplier**."

Paragraph 6.3.7., amend to read:

"6.3.7. (...) 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, (...)"

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 (...)"

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 (...):
- (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;
- (...)"

Paragraphs 6.6.3.2. and 6.6.3.3., delete.

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.

Paragraphs 6.6.4. and 6.6.5., amend to read:

- "6.6.4. (...) ~~manufacturer's or~~ **material** supplier's certificate. (...).
- 6.6.5. (...) the material ~~manufacturer's~~ **supplier's** specifications."

Paragraph 6.5.4., amend to read:

- "6.5.4. (...) 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 following formulae:  
 $D_{\min} = d + (2H \times a)$   ~~$D_{\max} = d + (2H \times b)$~~  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 ( $D_{\max}$ ) 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**
- $D_{\max, \text{snow}} = 1.01 \cdot D_{\max}$  rounded to the nearest mm**
- where  $D_{\max}$  is the maximum outer diameter established for normal use tyres in conformity with the above."**

Annex 7, paragraph 2.4., amend to read:

"2.4. (...) 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
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