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|  | United Nations | ECE/TRANS/WP.29/GRVA/2018/5 | |
| Description: _unlogo | **Economic and Social Council** | | Distr.: General  16 July 2018  Original: English |

**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations**

**Working Party on Automated/Autonomous and Connected Vehicles**[[1]](#footnote-2)\*

**First session**

Geneva, 25-28 September 2018

Item 14 (a) of the provisional agenda

**Remaining activities from the former Working Party   
on Brake and Running Gear (handover period):**

**Tyres**

Proposal for a Supplement to UN Regulation No. 117 (Tyres, rolling resistance, rolling noise and wet grip)

Submitted by the experts from the European Tyre and Rim Technical Organisation[[2]](#footnote-3)\*\*

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organisation (ETRTO) to amend UN Regulation No. 117. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

*Paragraph 2.18.,* amend to read:

*"*2.18. "*Standard Reference Test Tyre (SRTT)*" means a tyre that is produced, controlled and stored in accordance with the American Society for Testing and Materials (ASTM) standards

(a) ~~E1136-93 (2003)~~ **E1136 – 17** for the size P195/75R14

(b) ~~F2872 (2011)~~ **F2872 – 16** for the size 225/75 R 16 C

(c) ~~F2871 (2011)~~ **F2871 – 16** for the size 245/70R19.5

(d) ~~F2870 (2011)~~ **F2870 – 16** for the size 315/70R22.5."

*Paragraph 6.4.1.1.,* amend the table to read:

"

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Class*  *of tyre* | *Snow grip index*  *(brake on snow method) (a)* | | *Snow grip index*  *(spin traction method) (b)* | *Snow grip index*  *(acceleration method) (c)* |
|  | *Ref. =  ~~C1 –~~ SRTT 14* | *Ref. =  ~~C2 –~~ SRTT 16C* | *Ref. =  ~~C1 –~~ SRTT 14* | *Ref. = ~~C3N –~~ SRTT 19.5*  *Ref. = ~~C3W –~~ SRTT 22.5* |
| C1 | 1.07 | No | 1.10 | No |
| C2 | No | 1.02 | 1.10 | No |
| C3 | No | No | No | 1.25 |

"

*Annex 5, Paragraph 2.12.,* amend to read:

"2.12. "*SRTT14*" means the ASTM ~~E 1136-93 (Reapproved 2003)~~**E1136 – 17**, Standard Specification for a Radial Standard Reference Test Tire P195/75R14."

*Annex 5, Paragraph 2.13.,* amend to read:

"2.13. "*SRTT16*" means the ASTM ~~F 2493-08~~**F2493 - 18**, Standard Specification for a Radial Standard Reference Test Tire P225/60R16."

*Annex 6, Table 1,* amend to read:

# "Table 1

**Test Speeds (in km/h)**

| *Tyre Class* | *C1* | *C2 and C3* | *C3* | |
| --- | --- | --- | --- | --- |
| Load index | All | LI ≤ 121 | LI > 121 | |
| Speed symbol | All | All | J **(**100 km/h**)** and lower ~~or tyres not marked with speed symbol~~ | K **(**110 km/h**)** and higher |
| Speed | 80 | 80 | 60 | 80 |

"

*Annex 6, Table 2,* amend to read:

# "Table 2

**Test loads and inflation pressures**

|  |  |  |  |
| --- | --- | --- | --- |
| *Tyre Class* | *C1 ~~(a)~~* | | *C2, C3* |
|  | *Standard load* | *Reinforced or extra load* |  |
| Load - % of maximum load capacity | 80 | 80 | 85(~~b~~**a**) (% of single load) |
| Inflation pressure kPa | 210 | 250 | **Test Inflation pressure marked on sidewall as required by UN Regulation No. 54.** ~~Corresponding to maximum load capacity for single application~~~~(c)~~ |
| *Note*: The inflation pressure shall be capped with the accuracy specified in paragraph 4. of Appendix 1 to this annex. | | | |
| ~~(a)~~ ~~For those passenger car tyres belonging to categories which are not shown in ISO 4000-1:2010, the inflation pressure shall be the inflation pressure recommended by the tyre manufacturer, corresponding to the maximum tyre load capacity, reduced by 30 kPa.~~  (~~b~~**a**) ~~As a percentage of single load, or~~ 85 per cent of ~~maximum~~ load capacity **in single operation as indicated by the load capacity index** ~~for single application specified in applicable tyre standards manuals if not marked on tyre~~.  ~~(c)~~ ~~Inflation pressure marked on sidewall, or if not marked on sidewall, as specified in applicable tyre standards manuals corresponding to maximum load capacity for single application.~~ | | | |

*Annex 7,*

*Paragraph 4.1.,* shall be deleted.

*Paragraphs 4.2. to 4.10. (former),* shall be renumbered as *paragraphs 4.1. to 4.9.*

*Paragraph 4.7. (former),* amend to read:

"4.~~7.~~**6.** Acceleration on snow test procedure for snow grip index of Class~~es~~ C3~~N and C3W~~"

"

II. Justification

1. The amendments to the Standard Reference Test Tyre (SRTT) denominations are needed to align what was reported in this UN Regulation with the latest approved versions of such standard Specifications because it is practically impossible to procure an earlier version (because it is not produced anymore) and keeping the year reference ensures that UN keeps control on the version/performances.

2. The amendments to paragraph 6.4.1.1. and Annex 7 are proposed to remove the discrimination between the two Class C3 tyres that may create some problems of fitment with specific vehicles, given the fact that in any case coefficients and performances are equivalent for the purpose of this Regulation.

3. The amendments to Annex 6 are proposed to make the text clearer and because there are no tyres in the scope of this UN Regulation "not marked with speed symbol".

1. \* Formerly: **Working Party on Brakes and Running Gear (GRRF)**. [↑](#footnote-ref-2)
2. \*\* In accordance with ECE/TRANS/274, para 52, with ECE/TRANS/WP.29/1139, para. 33 and with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate. [↑](#footnote-ref-3)