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Tyres: Regulation No. 106

Proposal for a new Resolution on Tyre Sizes

Submitted by the experts from the European Tyre and Rim Technical Organisation*

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organisation (ETRTO) proposing a new Resolution on Tyre Sizes.

* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), 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.

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Resolution on Tyre Sizes

I. Preamble

The World Forum for Harmonization of Vehicle Regulations,

Desiring to establish the greatest uniformity in the regulations, rules and recommendations relating to tyres, to improve road safety and the protection of the environment, and to facilitate international road traffic and trade in vehicles and their equipment and parts,

Bearing in mind that the provisions of the Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts, which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 20 March 1958 ("1958 Agreement") provides possibilities for harmonization,

Recommends Governments, in order to eliminate divergences as far as possible, to align their domestic legislation with the recommendations of this Resolution on Tyre Sizes and, applying them forthwith to the fullest extent possible.

II. Theoretical rim, outer diameter and nominal section width of tyres of certain size designations

Additions to Table 7 of Annex 5 of Regulation No. 106 (1 of 2):

Agricultural high flotation tyres

<i>Tyre size designation</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (S1) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
24X8.00-12	6.5	204	610	305
24X10.00-12	8	254	610	305
26X8.00-12	6.5	204	660	305
26X8.00-14	6.5	204	660	356
27X10.00-14	8	254	686	356
27X12.00-14	9.5	304	686	356
28X9.00-14	7	227	711	356
28X10.00-12	8	254	711	305
28X10.00-15	8	254	711	381
28X11.00-14	9	281	711	356
28X11.00-15	9	281	711	381
28X12.00-12	9.5	304	711	305
29X9.00-14	7	227	737	356
29X9.00-15	7	227	737	381
29X9.00-16	7	227	737	406
29X9.50-15	7.5	240	737	381
29X11.00-14	9	281	737	356
29X11.00-16	9	281	737	406
30X9.00-14	7	227	762	356
30X10.00-14	8	254	762	356
30X10.00-15	8	254	762	381
30X11.00-14	9	281	762	356

Additions to Table 7 of Annex 5 of Regulation No. 106 (2 of 2):

Agricultural high flotation tyres

<i>Tyre size designation</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (S1) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
31X10.00-17	8	254	787	432
32X10.00-16	8	254	813	406
32X10.00-18	8	254	813	457

Notes:

1. These Tyres may be classified in categories of use "Tractor Drive Wheels" or "Implement".
2. Implement Tyres are identified either by suffix "IMP" placed after the Tyre size designation (e.g. 11x4.00 - 4 IMP) or by the word "IMPLEMENT" marked on the Tyre sidewalls.
3. Tyres of radial structure are identified by means of the letter "R" in place of " - " (e.g. 11x4.00 R 4).
4. Coefficient "b" for the calculation of the Overall diameter Dmax:
 - (a) 1.12 for tyres with Nominal rim Diameter (d) less than 380 mm;
 - (b) 1.10 for tyres with Nominal rim Diameter (d) 381 mm and above.

Additions to Table 9 of Annex 5 of Regulation No. 106:

Tyres for construction applications (industrial tractors)

<i>Tyre size designation</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (S1) (mm)</i>		<i>Overall diameter (D) (mm)</i>		<i>Nominal rim diameter (d) (mm)</i>
		<i>Radial</i>	<i>Diagonal</i>	<i>Radial</i>	<i>Diagonal</i>	
11L-16 IND	8	290		850		406

Notes:

1. These tyres are identified either by suffix "IND", placed after the Tyre size designation (e.g. 14.9-24 IND), or by the following marking added to the tyre sidewalls: "R - 4".
2. Tyres of radial structure are identified by means of the letter "R" in place of " - " (e.g. 14.9 R 24).
3. Coefficient for the calculation of the overall width of radial tyres: + 8 %.

II. Justification

Regulation No. 106 contains standardized tyre sizes which often need to be updated, following the technical progress. In order to accelerate the update process of the Regulation and limit the number of amendments, it is proposed to insert in a new Resolution the newly standardized sizes and to refer to this Resolution in Annex 5. As a temporary solution to assess the effectiveness of such proposal, the Annex 5 of Regulation No. 106 will be kept as it is with no further updates. After a trial period of approximately two years and upon confirmation of effectiveness, the complete Annex 5 of Regulation No. 106 would be transferred to this Resolution on Tyre Sizes.