

UNECE Regulation No 106

Informal document No. **GRRF-71-13**
(71st GRRF, 13-15 September 2011
agenda item 6(c))

UNECE Regulation No 106 Proposed amendments

August 2011

ETRTO Delegation



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Agenda

- 1. Harmonization to International Standards**
- 2. New Developments**
- 3. New Markings for Specific Applications in the field**



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Annex 7, PART A, column (1), amend to read:

Speed (km/h)	(1)
10	+ 58
15	+ 35 + 32
20	+ 27 + 26
25	+ 20 + 19
30	+ 14 + 12
35	+ 10
40	+ 6
45	+ 2
50	[0]
55	-
60	-
65	-
70	-

Annex 7 – Part A : Drive Wheel Tyres

- **Harmonize the values of the "Variation of load carrying capacity" to International Standards.**

Annex 7, PART A, note (1), amend to read:

"(1) These percentages apply only in case of tyres listed in Annex 5, Table 7, with nominal rim diameter (d) 381 mm and above, marked with speed symbol "B"."

These new load bonuses will not exclude any tyre from the Market



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Annex 7, PART C, column (1), amend to read:

Speed (km/h)	(1)
10	+ 58
15	+35 + 32
20	+27 + 26
25	+20 + 19
30	+14 + 12
35	+ 10
40	+ 6
45	+ 2
50	[0]
55	-
60	-
65	-
70	-

Annex 7 – Part C : Implement Tyres

- **Harmonize the values of the "Variation of load carrying capacity" to International Standards.**

Annex 7, PART C, note (1), amend to read:

"(1) These percentages apply only in case of tyres listed in Annex 5, Table 7, with nominal rim diameter (d) 381 mm and above, marked with speed symbol "B"."

These new load bonuses will not exclude any tyre from the Market



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Annex 7 – Part C : Implement Tyres

- In the past implement tyres were developed just for agricultural machines and had rim diameters lower than 24 that were typical of tyres for tractor drive wheels.
- With new developments now in many occasions implement tyres fitted to rim diameters 24 and above are used on tractors and are characterized by less aggressive treads for use on green areas or for surface treatments.
- For that reason the proposed amendment assign to those implement tyres (now in part C of Annex 7) the same load/speed bonuses as already assigned to tractor drive wheel tyres referred to in part A of Annex 7".

Annex 7, PART C, headings of columns A6, A8, amend to read:

"A6 (*), A8 (*)"

Annex 7, PART C, add footnote ():*

"(*) For tyres with nominal rim diameter code 24 and above, excluding codes 24.5, 26.5 and 30.5, Annex 7, PART A applies."



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- ***The addition of new markings for identification of tyres for specialized application in the field.***
- ***Tyre marked with CFO or CHO have, for road applications and vehicle type approvals, the same performances as those of tyres without that marking; in fact they have the same load index and speed symbol.***
- ***It is however necessary to differentiate them from tyres without the marking of the symbol because, in cyclic field applications, they have different performances. Thus the marking avoids misapplications in the field where they develop the best performances in specific applications such as harvesting or spraying.***

Add Paragraph 2.15.9. :

"2.15.9. The letters "CFO" after the nominal rim diameter marking in case of "Improved Flexion" or "Very High Flexion" tractor-drive wheel tyres specifically designed for the equipments of machines to be used in Cyclic Field Operations."

Add Paragraph 2.15.10. :

"2.15.10. The letters "CHO" after the nominal rim diameter marking in case of standard tractor-drive wheel tyres specifically designed for the equipments of machines to be used in Cyclic Harvesting Operations."

Add Paragraph 3.1.13. :

"3.1.13. The inscriptions "CFO" or "CHO", if applicable, shall be marked after the nominal rim diameter."

Annex 3, PART A, page 25, note (a), amend to read:

"(a) the size designation, comprising the prefix (if any), the nominal section width, the nominal aspect ratio, the type-of-structure symbol (where applicable) and the nominal rim diameter, must be grouped as shown in the examples : 360/70 R 24, IF 360/70 R 24, VF 360/70 R 24, IF 800/65 R 32 CFO, 800/70 R 24 CHO."



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Example of Equipments : Harvesters & Sprayers



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What means “cyclic application” ?

Typical field application.

The load cycles between the transport (road) and a maximum allowable load which is defined based on Specific marking.

One can have

- loading cycle : like combine harvesters*
- unloading cycles : like sprayers*

