

Proposal to amend document ECE/TRANS/WP.29/GRBP/2024/16

This document supersedes the proposal in ECE/TRANS/WP.29/GRBP/2024/16. The proposal reproduced below is prepared in response to the comments provided in GRBP-79-20. The modifications to the current text of UN Regulation No. 124 are marked bold for added text and strikethrough for deleted text.

I. Proposal

Annex 4,

Table, amend to read (to delete test (b) for the case of aluminum alloy and magnesium alloy wheels):

“

Material	Tests
Aluminium alloy	a, b , c, e
Magnesium alloy	a, b , c, e
Steel	a, b, d

“

Paragraph (c), amend to read:

“(c) Check of the material characteristics ($R_{p0.2}$, R_m and A) of specimen taken from critical zones (~~such as the spoke, for example~~ **hub, inner and/or outer rim flange, if the wheel design allows the take-off of the appropriate specimen), designated by the manufacturer and/or specified by the technical service, as well as the inner and the outer rim flange.** The take-off points and position of the samples must be depicted in the drawing **and specified in the manufacturer's technical description.**”

Annex 6, paragraph 4, at the end (before the picture), add a new indent to read:

“**A suitable technical test method to detect technical cracks shall be applied.**”

Annex 8,

Paragraph 3, table, the row “Acceptance criteria”, amend to read:

“

Acceptance criteria	<p>The test shall be considered satisfactory if there is not any visible fracture penetrating through the wheel surface and if there is not total loss of inflation pressure due to tyre depressurization through a leak in the wheel within one minute of completing the test. Fractures and indentations caused by the direct contact with the falling weight are acceptable.</p> <p>In the case of wheels with demountable rims or other components that can be dismantled, if threaded fastenings that are close to the spoke or ventilation holes fail the wheel is to be considered as having failed the test.</p>
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Paragraph 5, amend to read:

"5. Failure criteria

The wheel will not pass the test if one of the following criteria applies:

- (a) visible incipient crack in a zone of the wheel disc of wheel assembly;
- (b) the centre member separates from the rim;
- (c) ~~total loss of pressure within one minute.~~ **total loss of inflation pressure within one minute due to deformation of the wheel or a leak in the wheel.**

The wheel is not considered to have failed the test by deformation of the wheel assembly or by fractures in the area of a rim section struck by the face plate of the striker."

II. Justification

Provided in ECE/TRANS/WP.29/GRBP/2024/16.
