

21 March 2022

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## **Agreement**

### **Concerning the Adoption of Harmonized Technical United Nations Regulations 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 United Nations Regulations\***

(Revision 3, including the amendments which entered into force on 14 September 2017)

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#### **Addendum 123 – UN Regulation No. 124**

##### **Amendment 3**

Supplement 3 to the original version of the Regulation – Date of entry into force:  
7 January 2022

#### **Uniform provisions concerning the approval of wheels for passenger cars and their trailers**

This document is meant purely as documentation tool. The authentic and legal binding text is:  
ECE/TRANS/WP.29/2021/78.



**UNITED NATIONS**

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\* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version);  
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 5 October 1995 (Revision 2).



Paragraph 1., amend to read (footnote 1 remains unchanged):

- "1. This Regulation covers new replacement wheels designed for vehicles of categories M<sub>1</sub>, M<sub>1</sub>G, N<sub>1</sub>, N<sub>1</sub>G, O<sub>1</sub> and O<sub>2</sub>.<sup>1</sup>
- It does not apply to original equipment wheels or vehicle manufacturer's replacement wheels as defined in paragraphs 2.3. and 2.4.1. It does not apply to "Special wheels", as defined in paragraph 2.5., which shall remain subjected to national approval.
- It does not apply to wheels with less than three-wheel fixing components (studs or nuts) which are not identical replacement wheels.
- This Regulation comprises requirements for wheel manufacture and installation."

Annex 6

Paragraph 4., amend to read:

"Necessary tests:

<i>Number of wheels to be tested</i>	<i>Rotating bending test</i>	
	<i>Short test</i>	<i>Long test</i>
Minimum PCD	1	1
Maximum PCD	1	1
If only one PCD	2	2
If a type comprises more than two versions with different PCD, additional tests on each version with PCD different to tested version:		
PCD difference to a tested version ≤ 6,5 mm	-	-
PCD difference to a tested version > 6,5 mm	1	1
Insert variation up to 2 mm	-	-
From 2 mm to 5 mm	1	-
> 5 mm	1	1

"

Paragraph 6.5., amend to read:

- "6.5. The replica replacement wheels and pattern part replacement wheels shall satisfy the following tests:
- As an alternative to the test specifications in paragraph 6.5.1.1., the endurance life of replica replacement wheels can be proven in comparison to the endurance life of the vehicle manufacturer's replacement wheels.
- The rotation bending tests on two load levels have to be performed according Annex 6 as well as rolling test according to Annex 7. These tests have always to be performed in comparison of the replica replacement wheels to the vehicle manufacturer's replacement wheels until the required limits or failure of the wheels.
- Replica replacement wheels must achieve in every level at least the results or better of the vehicle manufacturer's replacement wheels.
- The tests requirements of the vehicle manufacturer regarding vehicle manufacturer's replacement wheels can be applied instead of test requirement 6.5.1.1. These testing requirements have to be disclosed in order to enable the verifiability. The assignment to the wheel load released by the vehicle manufacturer must be given."